

International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure



International Federation of Surveyors

General Assembly

AGENDA AND APPENDICES

29 May and 2 June 2017

Messukeskus Conference Centre

Helsinki, Finland

INTERNATIONAL FEDERATION OF SURVEYORS**FIG 40th GENERAL ASSEMBLY****29 May and 2 June 2017****Messukeskus Conference Centre, Helsinki, Finland****PROGRAMME**

Monday, 29 May 2017		
Messukeskus Conference Centre, Helsinki, Finland		
Monday 29 May	09:00-12:30 13:30-15:30 Plenary Hall, 101	General Assembly, First Session
Monday 29 May	16:00–17:30 Room 102	Developing Professional Networks and Mutual Recognition Agreements Around the Globe For Presidents/Heads of Delegation of Member Associations and other FIG members
Tuesday, 30 May – Thursday, 1 June 2017		
FIG Working Week 2017		
Messukeskus Conference Centre, Helsinki, Finland		
www.fig.net/fig2017		
Tuesday, 30 May – Thursday, 1 June 2017		
FIG Working Week 2017 Exhibition		
Messukeskus Conference Centre, Helsinki, Finland		
www.fig.net/fig2017		
Tuesday 30 May	14:00 - 15:30 Room 103B	FIG Member Associations Forum This session is reserved for Presidents or Heads of delegation (or their representatives) of member associations to discuss issue of their common interest. By invitation only
Tuesday 30 May	14:00 – 15:30 Room 209	FIG Director Generals Forum By invitation only
Wednesday 31 May	17:30 – 18:30	Annual Meetings of FIG Commissions
Thursday 1 June	11:00 – 12:30 Room 217	FIG Standards Network The FIG Standards Network meets regularly to discuss relevant standards in the Survey Profession. All those interested in standards and their influence on the surveying profession are cordially invited to attend the meeting.
Thursday 1 June	11:00 – 12:30 Room TBA	Regional Bodies Forum
Thursday 1	14:00 – 15:30	FIG Task Force on Commission Structure: Open

June	Room 217	Discussion on the Task Force Recommendations
Thursday 1 June	14:00 – 15:30 Room 209	Academic Members Forum joint with FAO
Thursday 1 June	16:00 – 17:30 Pres. office	FIG Corporate Members Meeting
Friday 2 June	08:30 – 10:30 Room 103	FIG Presidents' Meeting This event is convened by the FIG President and is reserved for Presidents or Heads of delegation of Member Associations (or their representatives) By invitation only
Friday 06 May	11:00–12:30 13:30-15:00 Plenary Hall, 101	General Assembly, Second Session including Closing Ceremony. Closing ceremony will start immediately after the conclusion of the General Assembly and will be followed by the Farewell Reception hosted by the hosts of FIG Congress 2018, Chamber of Surveying and Cadastre Engineers of Turkey.

For full Working Week programme check: <http://www.fig.net/fig2017/program.htm>

FIG 40th GENERAL ASSEMBLY

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FIG 40th GENERAL ASSEMBLY

AGENDA

for the meetings to be held on Monday 29 May 2017 and on Friday 2 June 2017 in Hall 101 at Messukeskus Conference Centre, Helsinki, Finland

MONDAY, 29 MAY

Monday, 29 May, 09:00-12:30 and 13:30-15:30
Hall 101, Messukeskus Conference Centre
General Assembly, First Session

1. OPENING PROCEEDINGS

President Chryssy Potsiou to open the 40th General Assembly.

2. ROLL CALL

Vice President Rudolf Staiger to take the roll call.

Please note: The roll call will be done for member associations only. Delegates representing affiliate members, academic members, corporate members and correspondents as well as honorary presidents and honorary members will be entered in the records but they shall register before the meeting starts at the meeting venue to the staff of FIG Office. Member associations are asked to inform the FIG Office by **26 April 2017** about their attendance, at the same time to submit the names of their delegate(s) and to inform who their Head of the delegation is, if it is not the President or Chair. Please use this special link below to inform us about your delegation.

To register:

https://docs.google.com/forms/d/e/1FAIpQLSeo6WqDug1sswcH32cmNPZOOgoV48ZuDcQveRIERAJOoZauIQ/viewform?usp=sf_link

Since only member associations that have paid all their membership fees to the end of 2016 are allowed to vote at the meeting. A list of member associations that are not allowed to vote will be published and posted on the FIG web site **26 April 2017**.

Appendix to items 2 & 21: Roll Call including information on member associations that are not allowed to vote at the General Assembly because of unpaid membership fees for 2016 and earlier. (will be posted 26 April 2017)

Motion: Those members present are recorded in the minutes.

Decision:

3. APPOINTMENT OF TELLERS

The General Assembly shall appoint two persons as tellers for the entire General Assembly. The tellers will represent the member associations hosting the current and the following General Assembly

- Martti Pietikainen (MIL/MAKLI, Finland),
- Muzaffer Kahveci (Chamber of Surveying and Cadastre Engineers of Turkey)

Motion: That the General Assembly appoints Martti Pietikainen from MIL/MAKLI and Muzaffer Kahveci from Chamber of Surveying and Cadastre Engineers of Turkey as tellers for this General Assembly.

Decision:

4. ADOPTION OF THE AGENDA

The Agenda for the General Assembly was issued as mandated, two months prior the General Assembly on the FIG web site and also sent by email to all members.

Motion: That the agenda be adopted.

Decision:

5. ADOPTION OF THE MINUTES OF THE 39th GENERAL ASSEMBLY

Minutes have been circulated previously.

Appendix to item 5: Minutes of the General Assembly in Christchurch, New Zealand, May 2016, without appendices.

Motion: That the minutes be adopted as recorded.

Decision:

6. MEMBERSHIP

6.1. Admittance of new Member Associations

FIG Council has received four applications for member association since the 39th General Assembly.

6.1.1. Ordre des Géomètres Experts de Côte d'Ivoire (OGECI) (MA-10129)

Ordre des Géomètres Experts de Côte d'Ivoire (OGECI) has applied for association membership. The association was established in 1970. Their total membership (all categories) is 35. Ordre des Géomètres Experts de Côte d'Ivoire (OGECI) fulfills the criteria of FIG Member association. Application form is attached as **appendix to agenda item 6.1.1**

Appendix to item 6.1.1:

- Membership application from Ordre des Géomètres Experts de Côte d'Ivoire
- Objectives and Ethics

Motion: That the General Assembly admits Ordre des Géomètres Experts de Côte d'Ivoire to become a member association of FIG.

Decision:

6.1.2. Tanzania Institution of Valuers and Estate Agents (TIVEA) (MA-10130)

Tanzania Institution of Valuers and Estate Agents (TIVEA) has applied for association membership. The association was established in 1997. Their membership of qualified surveyors is 334 and qualifying is over 600. Tanzania Institution of Valuers and Estate Agents (TIVEA) fulfills the criteria of FIG Member association. Application form is attached as **appendix to agenda item 4.1.2**

Appendix to item 6.1.2: Membership application from Tanzania Institution of Valuers and Estate Agents (TIVEA)

Motion: That the General Assembly admits Tanzania Institution of Valuers and Estate Agents (TIVEA) to become a member association of FIG.

Decision:

6.1.3. Society Of Engineers – UAE (MA-10131)

The Society of Engineers – UAE has sent an application for membership. The association was formed 1979, and has 1200 members in the category surveyors. This number includes both Title holders and Sub- profession that are practicing members. The application is attached as **appendix to agenda item 6.1.3**

Motion: That the General Assembly admits The Society of Engineers – UAE to become a member association of FIG.

Decision:

6.1.4. Institution of Surveyors of Uganda (MA-10132)

Institution of Surveyors of Uganda, ISU has sent an application for membership. Their association was formed in 1968 and has 280 qualified members. Institution of Surveyors of Uganda fulfills the criteria of FIG Member association.

The application is attached as **appendix to agenda item 6.1.4**

Motion: That the General Assembly admits Institution of Surveyors of Uganda, ISU to become a member association of FIG.

Decision:

6.2. Other Member Association Issues

6.2.1. GEOTHECO Uganda change from member association to corporate membership

Géographie, Topographie, Hydraulique, Energie et Construction (GEOTHECO), Uganda was in 2016 admitted as Member Association. However, the correct membership category is Corporate Membership. They have submitted a new application form for corporate membership, category D.

Motion: That the General Assembly notes the change of membership category from Member Association to Corporate member for GEOTHECO

Decision:

6.3. Expulsion of member associations

Subscriptions of following member associations are more than three years in arrears:

- Brasil: Sociedade Brasileira de Cartografia, Geodésia, Fotogrametria e Sensoriamento Remoto MA-10011
- Togo: Ordre des Geometre du Togo MA-10084
- Benin: Ordre Des Geometres Experts Du Benin MA-10113
- Ethiopia: Ethiopian Surveying Professionals Association (ESPA) MA-10115
- Nigeria: Nigerian Institution of Estate Surveyors and Valuers (NIESV) MA-10118
- Gabon: Association des Professionels de l'Ingenierie Topographique du Gabon, APIT MA-10122

The General Assembly has power to expel from the Federation any member association whose fees are in arrears and shall under normal circumstances expel any member association whose fees are three years in arrears. (Article 4.3 of the Statutes). The FIG office has sent information to these associations informing that if their membership fees are still in arrears at

the time of the General Assembly the General Assembly shall expel the above member associations in Helsinki.

After acceptance of new member associations and before expulsions the number of FIG member associations is 107 from 92 countries.

Motion: That the General Assembly expels:

- Brasil: Sociedade Brasileira de Cartografia, Geodésia, Fotogrametria e Sensoriamento Remoto MA-10011
- Togo: Ordre des Geometre du Togo MA-10084
- Benin: Ordre Des Geometres Experts Du Benin MA-10113
- Ethiopia: Ethiopian Surveying Professionals Association (ESPA) MA-10115
- Nigeria: Nigerian Institution of Estate Surveyors and Valuers (NIESV) MA-10118
- Gabon: Association des Professionels de l'Ingenierie Topographique du Gabon, APIT MA-10122

If no payment has been received before the General Assembly takes place.

Decision/Action:

6.4. Suspended status 2017

In accordance with its administrative measures, FIG Council, has deferred to continue for 2017 the issuance of a membership subscription invoice to the Order of Syrian Engineers and Architects, OSEA as all efforts to maintain contact with them has not yielded results, will deem their membership in suspension giving due consideration to its internal situation. As reported in the General Assembly 2016, there remain existing sanctions on Iran, but this might change during 2017. The FIG office in Denmark cannot for the time being receive payments from Iranian Professional Society of Surveying Engineers (ISS). Ukrainian Society of Geodesy and Cartography has also gained suspended status and has not been invoiced for 2017. Again in accordance with its administrative measures, FIG Council deem their membership to be in suspension. The situation with these associations will be reconsidered by Council again in 2018.

Motion: That the General Assembly notes the members with suspension status.

Decision:

6.5. Other membership issues

6.5.1. Affiliate members

There have been no applications for affiliate membership since the General Assembly 2016.

The council has expelled the following affiliate members because of unpaid membership subscriptions:

- a) Argentina: Consejo Federal De Catastro De La Republica Argentina (C.F.C) AF-20047
- b) Azerbaijan: State Committee for Land and Cartography, State Aerogeodesy Corporation, Azerbaijan AF-20048
- c) Fiji: Ministry of Lands and Mineral Resources AF-20039

Fiji has promised to pay during the WW 2017. If FIG office receives payment they will be re-installed as AF member.

After these changes the number of Affiliate members is 46 from 45 countries.

6.5.2. Corporate members

FIG Council has admitted the following Corporate Members:

- a) Géographie, Topographie, Hydraulique, Energie et Construction (GEOTHECO), Uganda (CM-30062) moved from MA membership)
- b) Génie Congo Sarl, République Démocratique du Congo – Category F (CM-30063)
- c) GEOIDE GEOSYSTEMS S.A., Portugal – Category E (CM-30064)
- d) M/s. Survey Scale Pvt. Limited., Karachi, Pakistan – Category F (CM-30065)
- e) M/s Accord Marine Surveyors, India – Category F (CM-30066)
- f) GIS/Transport Ltd., Nigeria – Category D (CM-30067)

The State Enterprise, Ukraine has terminated their corporate membership of FIG.

Expelled:

- a) Russian Federation Meridian + (CM-30049)
- b) KQ Geo Technologies Co. Ltd. (CM-30050)

After these changes the number of corporate members is now 27.

6.5.3. Academic members

FIG Council has admitted the following University to become Academic member:

- a) University of Oradea – Faculty of Construction, Cadastre and Architecture (AF-40145)
- b) Selcuk University, Geomatic Engineering, Turkey (AC-40147)
- c) Institute of Surveying and Mapping, Survey Department, Sri Lanka (AC-40146)
- d) Tafe NSW - Riverina Institute, Australia (AC-40148)

University of Mines and Technology, Ghana (AC-40030) were expelled at the end of 2015 but they paid their arrears in 2016 and have been reinstalled.

The number of Academic Members after these changes is 95 from 53 countries.

6.5.4. Correspondents

The Council has admitted following new correspondents:

- Ahmed Nuaim, Maldives, Managing Director Foresight Surveyors (Pvt) Ltd. (CR-50026)
- Mr Javaid Akhtar, Pakistan (CR-50027)

The number of correspondents is now 3.

Motion: That the General Assembly notes the actions that the Council has taken with other membership matters.

Decision:

7. PRESIDENT'S REPORT

President Chryssy Potsiou has prepared the President's report on the activities of the Federation since the General Assembly in Christchurch, New Zealand, May 2016.

Appendix to item 7: President's report. (to be posted)

Motion: That the General Assembly accepts the President's report.

Decision:

8. REPORT OF THE PRESIDENT OF THE FIG FOUNDATION 2016-2017

Mr. John Hohol, President of the FIG Foundation has prepared a report on the FIG Foundation activities from May 2016 to March 2017. He will make a short report to the General Assembly.

The FIG Council has appointed Dr. Daniel Steudler from Switzerland as a new Director in the Board of Directors for 2017-2018 since Paul van der Molen, now retired, has decided to resign as board member. The new Council representative in the Board of Directors is Vice President Orhan Ercan.

Appendix to item 8:

Report of the FIG Foundation activities 2016-2017

Result 2016

Motion: That the General Assembly:

- adopts the report of the President of the FIG Foundation

- records its thanks to the President and members of the Board of Directors of the FIG Foundation for their past year's work
- records the resignation of Paul van der Molen after 6 years as director and extends its special thanks for his commitment to the FIG Foundation including his generous financial donations for these many years
- appoints the President and Directors of the FIG Foundation for term of office 1.1.2017-31.12.2018: President: Mr. **John Hohol** (USA) and Directors: Prof. **Michael Barry** (Canada), Dr. **Daniel Steudler** (Switzerland), Ir. **Liza Groenendijk** (FIG Commission 2 representative), and FIG Vice President **Orhan Ercan** (Turkey) as the Council representative.

Decision:

9. REPORTS FROM THE DIRECTORS OF PERMANENT INSTITUTIONS 2016-2017

9.1. International Office of Cadastre and Land Records (Office International du Cadastre et du Régime Foncier) OICRF

Dr. Christiaan Lemmen, Director of OICRF has prepared a report on the OICRF activities since the General Assembly in Christchurch. He will make a short report to the General Assembly.

Appendix to item 9.1: Report from the International Office of Cadastre and Land Records (Office International du Cadastre et du Régime Foncier) OICRF.

Motion: That the General Assembly adopts the report and records its thanks to the members of OICRF for their past year's work and contribution.

Decision:

9.2. International Institution for the History of Surveying and Measurement, Permanent Institution of FIG

Mr. Jan de Graeve, Director of the IIHSM has prepared a report on the IIHSM activities since the General Assembly in Christchurch. IIHSM will make a short report to the General Assembly.

Appendix to item 9.2: Report from the International Institution for the History of Surveying and Measurement, Permanent Institution of FIG.

Motion: That the General Assembly adopts the report and records its thanks to the Director and the members of the permanent institution for their past year's work and contribution.

Decision:

10. FIG REGIONAL BODIES FORUM

At the FIG Working Week 2016, regional bodies held a forum session for the first time. Again in 2017, there will be a Regional Bodies Forum during the Working Week on Thursday 1 June 11:00 – 12:30. There will be a short presentation of the FIG Regional Bodies Forum.

Motion: that the General Assembly notes the report.

Decision:

11. REPORTS FROM FIG COMMISSIONS AND NETWORKS 2016-2017

Each Commission Chair has submitted a written report on their Commission activities since the FIG Working Week in Christchurch. These reports include progress reports of the Commission working groups. Each Commission will hold a meeting during the Working Week (Wednesday 31 May, 17:30-18:30). Each Commission will give a short report on Commission activities to the General Assembly.

Appendix to item 11: Commission reports:

- Commission 1
- Commission 2
- Commission 3
- Commission 4
- Commission 5
- Commission 6
- Commission 7
- Commission 8
- Commission 9
- Commission 10

New publication from FIG Commission 9: Property Taxation for Developing Economies, joint FIG Commission 9/UN-Habitat/GLTN – Valuation and the Management of Real Estate, FIG Report 2016: <http://www.fig.net/resources/publications/figpub/pub67/Figpub67.asp>

Each Network Chair has submitted a written report on their Network activities since the FIG Working Week in Christchurch. Each Network will give a short report on the Network activities to the General Assembly.

Appendix to item 11: Network reports:

- Standards Network
- Regional Capacity Network
- Young Surveyors Network

Election Structure for Chair of Young Surveyors

Young Surveyors Network has so far elected their chairs for a 4 year term like the commissions. FIG Council has approved the chair. Young surveyors have proposed to FIG Council to change this structure. FIG Council and Young Surveyors Network have decided on the following structure for the future proposed by the Young Surveyors:

Shortlist of candidates by YSN and decision by FIG Council

YSN has an internal consultation process that can include application for the position, together with key and active YS from regions identify candidates and recommend to FIG Council a shortlist of candidates (e.g. three). FIG Council decides and appoints one as YSN Chair-elect. This process should include consulting the candidate's member association.

The above structure has been adopted by FIG Council with the caveat that Council and YS retain the possibility to nominate an alternative Chair if the Chair elect has not proven active.

Motion: That the General Assembly:

- adopts the reports of the Commission Chairs and records its thanks to the chairs and other officers of the Commissions for their ongoing contributions.
- adopts the reports of the Network Chairs and records its thanks to the chairs and other officers of the Networks for their ongoing contributions
- records the structure on voting of Chair for Young Surveyors

Decision:

12. HONORARY MEMBERS

The Council has received two nominations for Honorary Members:

Association of Licensed Surveyors in Israel (ALSI) from Israel has nominated Professor Dr. **Yerach Doytsher**, and Swiss Association for Geomatics and Land Management (geosuisse) has nominated Dr. **Daniel Steudler**.

Appendix to item 12: The nomination letters for:

- Professor Dr. **Yerach Doytsher**, Association of Licensed Surveyors in Israel (ALSI)
- Dr. **Daniel Steudler**, Swiss Association for Geomatics and Land Management (geosuisse)

According to the Statutes paragraph 3.1.7 an individual who has materially assisted the development and promotion of the surveying profession at the international level can be appointed as an honorary member. Nomination for this appointment shall be made by a member association or the Council, which will consider it and submit it to a vote of the General Assembly.

The Council has considered both proposals and decided to propose to the General Assembly that it appoints Yerach Doytsher, ALSI, Israel and Daniel Steudler as Honorary Members of

the Federation for the outstanding services they have provided to the Federation in different positions and functions.

Paul Munro-Faure, FAO, has worked closely with FIG for many years and is now standing down from FAO. FIG Council would like to acknowledge the longstanding cooperation with Paul Munro-Faure. As a special consideration FIG Council has decided to appreciate him as Honorary Ambassador. His certificate will be presented to him by the President during the Opening Ceremony on 30 May.

Motion: That the General Assembly appoints Yerach Doytsher and Daniel Steudler Honorary Members of FIG, and that the General Assembly notes the appreciation as Honorary Ambassador for Paul Munro-Faure that will be presented to him at the Opening Ceremony.

Decision:

13. REPORTS FROM THE FIG TASK FORCES 2016-2017

FIG has currently four Task Forces.

13.1. Task Force on Real Property Markets

The Task Force assesses the progress of establishing the real property markets in the countries with economies in transition. The Task Force is chaired by Pekka Halme, Finnish Association of Geodetic and Land Surveyors MIL. A session on Real Property Markets is included in the technical programme.

Appendix to item 13.1 – Status Report from the Task Force

Motion: That the General Assembly records the report from the Task Force and records its thanks to the Chair of the Task Force and its members.

Decision:

13.2. Task Force on Corporate Members

The Task Force is established to strengthen the FIG relationship with corporate members. The Task Force is chaired by John Hohol, National Society of Professional Surveyors (NSPS) in cooperation with Bryn Fosburgh, Vice President of Trimble.

Appendix to item 13.2 – Status Report from the Task Force.

Motion: That the General Assembly records the report from the Task Force and records its thanks to the Chair of the Task Force and its members.

Decision:

13.3. Task Force on Scientific Journal

The Task Force is established to investigate the usefulness and need and if justified, the steps forward in order to introduce an FIG peer review Journal (electronic or printed). The Task Force is chaired by Yerach Doytsher, Association of Licensed Surveyors in Israel (ALSI). The Task Force has written a final report and proposal to be presented and adopted at the General Assembly 2017. After the reporting, the Task Force has completed its task, and FIG Council will decide on the next steps. The report closes the task force.

Appendix to item 13.3 – Final Report from the Task Force

Motion: That the General Assembly:

- records the final report and recommendations from the Task Force,
- records its thanks to the Chair of the Task Force and its members
- decides to close the FIG Task Force on Scientific Journal as its work has come to an end

Decision:

13.4. Task Force on Commission Structure

The Task Force assesses the Commissions and investigates if there is a need to revise their structure and to provide a proposal on possible improvements. The Task Force is chaired by Mikael Lilje, Swedish professionals for the built environment, Samhällsbyggarna.

The Task Force has written a final report and proposal to be presented and adopted at the General Assembly 2017. The final report is based on the discussions and feed back from the Task Force sessions at FIG Working Week 2016, and the regional meetings held during the autumn 2016.

At the General Assembly under this agenda item there will be a possibility for discussion of the proposal.

Further to this, during the conference days of the Working Week Members of FIG will have a possibility to discuss the proposal in more details with the Task Force on:

Thursday, 1 June 14:00–15:30 in room 217.

A summary of the comments received during the first General Assembly session and the Task Force session will be presented at the 2nd General Assembly together with a final proposal for the General Assembly that will be brought to a vote.

Votings for Commission Chairs for the term 2019-2022 for the current 10 commissions will be done at the General Assembly 2018 in Istanbul, Turkey. The bid for nominations will be published in July.

Appendix to item 13.4 – Report from the Task Force

Motion: That the General Assembly

- records the final report and recommendations from the Task Force,
- records its thanks to the Chair of the Task Force and its members
- notes the discussion session during the Working Week
- decides to take the Task Force proposal with amendments, if any, to a voting at the second General Assembly Session
- notes the voting schedule for commission chairs for the term 2019-2022

Decision:

14. CO-OPERATION WITH THE UNITED NATIONS AND THE WORLD BANK

Since the 39th General Assembly, FIG has continued to collaborate with the World Bank and various agencies and structures within the United Nations.

The main activities in the co-operation with the United Nations and the World Bank during this period have been:

At FIG Working Week 2016, a pre-workshop was organised in cooperation with UN-Habitat/GLTN, FAO, AUS-Aid and NZ-Aid on Climate Change and Tenure Insecurity in Small Island Developing States, SIDS. Outcome of the workshop was a declaration which has been published in the FIG Publication series:

The FIG Christchurch Declaration - Responding to Climate Change and Tenure Insecurity in Small Island Developing States. The Role of Land Professionals SIDS Workshop, FIG Working Week, Christchurch, New Zealand 30 April – 1 May 2016. FIG Report 2016

<http://www.fig.net/resources/publications/figpub/pub68/figpub68.asp>

Participation to FAO and the Voluntary Guidelines, VGGT.

At FIG Working Week 2016 two special sessions, one of them being the FIG Academic Forum, were organised. A result of the Working Week 2016 was an action statement.

Appendix to agenda item 14:

- FIG/FAO Action statement
- Article published in the Magazine GeoConnexion on the outcome of the cooperation and the action statements

Again in 2017 at the Working Week there will be two sessions, FIG Academic Forum and a special session on Land Consolidation.

Participation to Global Land Tool Network GLTN:

- Lead of Global Land Tool Network Professional Cluster 2016-17,
- Participation in the GLTN International Advisory Board
- STDM workshops in cooperation with FIG Young Surveyors
- Expert Group Meetings
- Special sessions in the Working Week 2017 technical programme

FIG Publication 52 FIG Publication no 52 The Social Tenure Domain Model - A Pro-Poor Land Tool on Social Tenure Domain Model. FIG Report, 2010.

<http://www.fig.net/pub/figpub/pub52/figpub52.pdf>

has now been translated into three languages:

Arabic: http://www.fig.net/resources/publications/figpub/pub52/Figpub52_arabic.pdf

French: link will follow – under preparation

Japanese: link will follow – under preparation

Participation at the Habitat III meeting organised by UN-Habitat

Participation to the work of UN-GGIM

Participation to the work of the International Committee on Global Navigation Satellite Systems (ICG)

Participation to UN-OOSA

Participation at the World Bank Conference in March 2017.

Motion: That the General Assembly

- adopts the report on the co-operation between FIG and the United Nations, its agencies and the World Bank
- endorses the Christchurch Declaration
- endorses the FAO/FIG statement
- records its thanks to all those who have contributed to this co-operation

Decision:

15. LIAISON WITH INTERNATIONAL PROFESSIONAL ORGANISATIONS

The Joint Board of Spatial Information Societies JB-GIS was formally established during the FIG Working Week in Cairo in 2005 and meets annually during a major conference. The meeting of JB-GIS in 2016 was held in August 2016. FIG has collaborative MoUs with a number of the organizations who are part of JB-GIS.

FIG has further bilateral agreements of co-operation with several other international associations like ISM, IFHP, CIB, ION, ICEC, FIABCI, IFHS, PAIGH and PAQS.

FIG is represented in International Construction Measurement Standard Coalition by Chair of FIG Commission 10, See Lian Ong who has been appointed chair of the Standard Setting Committee. FIG is represented in the Trustee Board by the President.

FIG is represented in International Land Measurement Standard Coalition by Mr. Maurice Barbieri.

FIG Council has furthermore decided to join the Ethics Standard Committee.

FIG is a member of the International Council for Science (ICSU) and is working together with ISO and International Valuation Standards Committee (IVSC) on standards.

Motion: That the General Assembly records the report on the liaison with other international associations.

Decision:

16. AMENDMENT TO STATUTES AND INTERNAL RULES

The following two agenda items, 17.1 and 17.2 will be introduced at the first session of the General Assembly, and voting will take place at the second session on 2 June, under agenda item 24.

16.1. Amendment proposed by DVW Society of Geodesy, Geoinformation and Land Management, Germany

FIG President and Council has received letter from DVW with proposal for amendment of the FIG Statutes:

Existing provision	Proposed amendment (<i>amendment here shown in italics</i>)
5.5 The term of office for all elected members of the Council is four years subject to the provisions of section 5.6. No individual may serve for more than two consecutive periods on the Council and the term of office of the president is limited to one period of four years. The term of office for the President, Vice Presidents and the ACCO representative starts on 1 January in the year immediately following their election. For the purposes of this section a single term of two years or less shall not be considered as a term of office.	5.5 The term of office for all elected members of the Council is four years subject to the provisions of section 5.6. No individual may serve for more than two consecutive periods on the Council <i>as vice president</i> . The term of office of the president is limited to one period of four years. The term of office for the President, Vice Presidents and the ACCO representative starts on 1 January in the year immediately following their election. For the purposes of this section a single term of two years or less shall not be considered as a term of office.

Attached to agenda item 16.1 and 23: Letter from DVW

Motion: That the General Assembly notes the presentation of the proposed change and decides to make the elections at the second session of the General Assembly.

Decision:

16.2. Amendment proposed by Council

Introduction of “Suspended status” for FIG members.

FIG Council has in the later years experienced on several occasions where a member (member association, affiliate or academic member):

- had difficulty in remitting its membership dues to FIG;
- could not be contacted; and
- experienced internal financial distress,

due to circumstances beyond the member's or FIG's control such as domestic civil strife, external economic sanctions or sharp sudden domestic economic turmoil, but desirous of remaining a member of FIG.

FIG Council has adopted guidelines to handle the above situation, and suggests that the already adopted paper on membership suspension will be added to the FIG Statutes, Internal Rules and Guidelines as a new Guideline for Council and FIG Office.

Appendix to agenda item 16.2: Guidelines for membership suspension by decision of council.

Motion: That the General Assembly endorses the Guidelines for membership suspension by decision of council.

Decision:

17. FIG ACCOUNTS FOR 2016, AUDITOR'S REPORT AND BUDGETS 2017-2020

Vice President Rudolf Staiger will present the report to the General Assembly. This report includes the auditors report from 2016, official accounts (income statement 2016) and balance sheet 31 December 2016, a summary of 2016 accounts, an updated budget for 2017 and proposals for budgets 2018-2020 and proposal for membership fees for member associations in 2019.

Appendix to item 17:

Report on Financial Issues (including 2016 accounts and budgets 2017-2020)

Annexes:

- **17A** Auditor's Report, Income Statement for 2016 and Balance Sheet at 31 December 2016.
- **17B** FIG Result 2016
- **17C** FIG Budgets 2017-2020
- **17D** List of member associations whose membership fees are in arrears for 2016 and earlier and that are not allowed to vote - to be published on the FIG web site **26 April 2017** (in roll call).

Motion: That the General Assembly

- adopts the audited accounts for 2016,
- adopts the Finance Report, and
- adopts budgets for 2017–2020

Decision:

18. SUBSCRIPTION RATES FOR 2019

The General Assembly has to set levels of fees for member associations two years in advance of the year in which they become payable. Fees are payable in respect of each individual member up to a maximum of 5,500 members. The membership fee structure was changed in 2009. Membership fees have been discussed as part of the finance report, **appendix to item 17**.

The 2016 General Assembly approved membership fees for 2018 as follows:

Year	Per capita fee	Minimum fee	Maximum fee
2018	€4.48 per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay €2.24 member up to a maximum of 5,500 members.	20 members or €50 (whichever is greater)	5,500 members (€24,640)

The World Bank lists of the low-income economies and the lower-middle-income economies are available at: <http://data.worldbank.org/about/country-classifications/country-and-lending-groups>

The 2018 subscription fees have been kept at the same level as for the years 2012-2018.

Although FIG Council knows that budgets are tight among the member associations, it has decided to propose to the General Assembly an increase of the subscription rates of 8% to €4.80 per member from €4.48. The rates have been kept stable since 2012, Council and office have been very cost conscious, but must also face that there is a general increase in costs.

Motion: That the General Assembly adopts following membership fees payable by member associations in 2019:

Year	Per capita fee	Minimum fee	Maximum fee
2019	€4.80 per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay €2.40 per member up to a maximum of 5,500 members.	25 members or €50 (whichever is greater)	5,500 members (€26,400)

Decision:

19. DECISION ON THE VENUE FOR FIG WORKING WEEK 2021 – PRESENTATION OF CANDIDATES

The FIG Working Weeks are organised by FIG together with a local member association. FIG will together with the local member association have full responsibility of the arrangements and of the financial result. This offers FIG better opportunities in terms of organising events and generating revenue. Therefore the Council has to ensure that all candidates are aware of the role of FIG and split of responsibilities for organising the Working Week. This General Assembly will decide on the host for the 2021 Working Week.

The FIG Council has received two bids to host the FIG Working Week 2021, and FIG Council thanks all bidding member associations for their special engagement and contribution to FIG.

The Council has prepared a desktop summary on the bids. In the summary report the following considerations, as laid out in the invitation documentation, are described for comparison:

- Rotation of the conferences (region);
- Country (hosting of earlier FIG events, experience);
- Member association (its activeness, commitment to FIG and to the Working Week, execution ability for local association);
- Supporting organisations (local support to the Working Week, governmental support, financial support, general support);
- Host city (characteristics and interest from congress programme point of view, host city attractiveness, host city offerings);
- Venue (price/affordability, location of venue, internet availability suitability of rooms, size of venue, structure and layout of the venue, catering, value for money, hotels nearby facilities for exhibition);
- Accessibility (flight connections, several access possibilities, security, visa issues, air fare to destination);
- Safety and security (political stability, airport safety, city safety, political stability in the country - rating must be 3 or higher);
- Proposed dates (must meet FIG requirements, Following FIG statutes, practical dates, availability of venue, other conferences at the same time)
- Technical programme (coverage of all FIG Commissions, potential partners, originality, special ideas);
- Technical tours (coverage of all FIG Commissions, originality, ideas proposed);
- Social programme (attractiveness and variety, proposals for dinners, attractiveness of offered dinners, proposals for tours, is the programme following the overall FIG concept);
- Attendance (expectation of international, regional and local attendance, realistic number of international and national participants);
- Finances (estimate of surplus and financial risks, realistic fees proposed, fees in an acceptable price range, difference between international and national fees, realistic budget, estimated revenue);
- Sponsorship (estimate sponsorship and exhibition income, proposed income, how realistic is proposed income, local sponsor offerings, sponsor interest to conference);
- Why host (reason for hosting);

- Objectives and outcomes (thought through why conference should be held at destination, difference to other destinations, short term outcome, long term outcome);
- Suggested theme (thought of possible theme that fits to local/regional situation);
- Events organised in the past three years (how experienced is the host in organising events)
- Major events planned in the proposed city (many events might affect the price level):
- Initiatives for sustainable conference environment (is host city, venue and local host paying attention to environmental issues);
- New initiatives or activities (originality – but within the overall FIG concept)
- What legacy to leave locally from the Working Week (with host, hosting city, for the surveying community)

The summary report will not give a recommendation or a preference to any candidate but it will provide useful information on each items listed above and summarise the pros and cons of each candidate to assist the member association in making their decision. The General Assembly must note that, especially in these past years, the issue of security and financial viability has come to the fore. The purpose of the evaluation process is to maintain the continued viability, high standard and quality of the FIG Working Week.

The Council has considered the bids and has decided to present the submitted bids to the General Assembly for its decision:

- a) Accra, Ghana, Licensed Surveyors Association of Ghana and Ghana Institution of Surveyors
- b) Krakow, Poland, Association of Polish Surveyors (SGP)

The General Assembly is recommended to read the summaries and the bids carefully.

Appendix to item 19 and 24

- Summary Reports on the Bids for FIG 2021 Working Week (to be added)
 - Bidding documents for FIG 2020 Working Week:
- a) Accra, Ghana, Licensed Surveyors Association of Ghana and Ghana Institution of Surveyors
 - b) Krakow, Poland, Association of Polish Surveyors (SGP)

At the session each candidate will be given the same time (not more than 10 minutes) to make a presentation of their proposal and framework of the Working Week and their bid. FIG Council will present its evaluation and the impact on FIG on the various bids.

Decision on the venue of FIG 2021 Working Week will be made at the second session of the General Assembly on 2 June. The voting will be made by blind votes.

Motion: That the General Assembly notes the submission, the summary report and the presentations, makes its careful consideration and decision during the second session of the General Assembly on 2 June.

Decision:

Monday 29 May 16:00 – 17:30, Room 102

Session for Presidents/Heads of Delegation of Member Associations and other FIG members (affiliate, academic, corporate): Developing Professional Networks and Mutual Recognition Agreements Around the Globe.

FRIDAY 2 JUNE 2017

Friday, 2 June, 08:30-10:30

**Room 103,
Messukeskus Conference Centre, Helsinki, Finland**

Presidents' Meeting (by invitation only)

20. FIG PRESIDENT'S MEETING

Separate invitation is sent to Presidents of the Member Associations.

Friday, 2 June, 11:00–12:30 and 13:30-15:00

**Plenary Hall, 101,
Messukeskus Conference Centre, Helsinki, Finland
General Assembly, Second Session and Closing Ceremony**

21. ROLL CALL

Vice President Rudolf Staiger to take the roll call.

Please note: The roll call will be done for member associations only. Delegates representing affiliate members, academic members, corporate members and correspondents as well as honorary presidents and honorary members will be entered in the records but they shall register before the meeting starts at the meeting venue to the staff of FIG Office.

Since only member associations that have paid all their membership fees to the end of 2016 are allowed to vote at the meeting, a list of member associations that are not allowed to vote will be published and posted on the FIG web site **26 April 2017**.

Appendix to items 2 & 21: Roll Call including information about member associations that are not allowed to vote at the General Assembly because of unpaid membership fees for 2016 and earlier.

To be noted that the General Assembly has appointed two representatives as tellers.

*Tellers: The tellers will represent the member association hosting the current General Assembly (MIL/MAKLI, Finland) **Martti Pietikainen** and the host of the proceeding following General Assembly (Chamber of Surveying and Cadastre Engineers of Turkey) **Muzaffer Kahveci**.*

Motion: Those members present are recorded in the minutes.

Decision:

22. MEMBERSHIP

The Council will decide on other membership issues, if any, considered in Helsinki and bring them for the General Assembly for decision or information as necessary.

Motion: That the General Assembly decides on other membership issues.

Decision:

23. AMENDMENT TO STATUTES AND INTERNAL RULES

23.1. Amendment proposed by DVW Society of Geodesy, Geoinformation and Land Management, Germany

FIG President and Council has received letter from DVW with proposal for amendment of the FIG Statutes which was presented at the first General Assembly on 29 May 2017

Existing provision	Proposed amendment (<i>amendment here shown in italics</i>)
5.5 The term of office for all elected members of the Council is four years subject to the provisions of section 5.6. No individual may serve for more than two consecutive periods on the Council and the term of office of the president is limited to one period of four years. The term of office for the President, Vice Presidents and the ACCO representative starts on 1 January in the year immediately following their election. For the purposes of this section a single term of two years or less shall not be considered as a term of office.	5.5 The term of office for all elected members of the Council is four years subject to the provisions of section 5.6. No individual may serve for more than two consecutive periods on the Council <i>as vice president</i> . The term of office of the president is limited to one period of four years. The term of office for the President, Vice Presidents and the ACCO representative starts on 1 January in the year immediately following their election. For the purposes of this section a single term of two years or less shall not be considered as a term of office.

The decision will take place by blind votes following the FIG statutes and internal rules.

Attached to agenda item 16.1 and 23: Letter from DVW

Motion: That FIG General Assembly adopts the proposed change to FIG Statutes item 5.5 to: 5.5 The term of office for all elected members of the Council is four years subject to the provisions of section 5.6. No individual may serve for more than two consecutive periods on the Council as vice president. The term of office of the president is limited to one period of four years. The term of office for the President, Vice Presidents and the ACCO representative starts on 1 January in the year immediately following their election. For the purposes of this section a single term of two years or less shall not be considered as a term of office.

Decision:

24. DECISION ON THE VENUE FOR 2021 FIG WORKING WEEK

Candidates for FIG 2021 Working Week have made their presentations in the first session of the General Assembly and FIG Council has presented its evaluation. The decision will be made between:

- Accra, Ghana, Licensed Surveyors Association of Ghana and Ghana Institution of Surveyors
- Krakow, Poland, Association of Polish Surveyors (SGP)

The decision will take place by blind votes following the FIG statutes and internal rules.

Motion: That the General Assembly decides the host and venue for FIG Working Week 2021.

Decision:

25. FIG TASK FORCE ON COMMISSION STRUCTURE

At the first General Assembly session the final report from the Task Force on Commission Structure will be presented and there is allocated time for discussion. Furthermore, on Thursday, 1 June 14:00–15:30 the Members of FIG have a possibility to discuss the proposal in more details with the Task Force.

A summary of the comments received during the first General Assembly session and the Task Force Session will be presented at the 2nd General Assembly together with the final proposal for the General Assembly that will be brought to a final vote.

After the reporting and voting, the Task Force has completed its task, and FIG Council will decide on the next steps.

Voting for Commission Chairs for the term 2019-2022 for the current 10 commissions will be done at the General Assembly 2018 in Istanbul, Turkey. The bid for nominations will be published in July.

Appendix to item 13.4 – Report from the Task Force

Motion: That the General Assembly

- Notes the update report
- Adopts the Task Force proposal

Decision:

26. REPORTS FROM FIG TASK FORCES

FIG Task Forces may report back to the General Assembly that may need the endorsement of or are of general interest to the General Assembly.

Motion: That the General Assembly records the report(s).

Decision:

27. REPORTS FROM ASSOCIATION, AFFILIATE, ACADEMIC, REGIONAL BODIES AND CORPORATE MEMBERS FORUM (IF ANY)

During the Working Week there will be Member Association Forum, the Director General's/Affiliate Members Forum, Academic Members Forum and Corporate Members Meeting. They may report back to the General Assembly on any issues that may need the endorsement of or are of general interest to the General Assembly.

Motion: That the General Assembly records the report(s)

Decision:

28. REPORTS FROM NETWORKS, PERMANENT INSTITUTIONS, FIG FOUNDATION AND OTHER WORKING WEEK ACTIVITIES (IF ANY)

Networks, Permanent Institutions, FIG Foundation and others will have meetings and technical sessions in Christchurch. They may report back to the General Assembly on any issues that may need the endorsement of or are of general interest to the General Assembly. Any other activities from the Working Week may be reported back to the General Assembly on any issues that may need the endorsement of or are of general interest to the General Assembly.

Motion: That the General Assembly records the report(s).

Decision:

29. REPORTS FROM COMMISSIONS

FIG Commissions will have their annual meetings, administrative meetings and technical sessions during the Working Week. They may report back to the General Assembly on any issues that may need the endorsement of or are of general interest to the General Assembly. Any other activities from the Working Week may be reported back to the General Assembly on any issues that may need the endorsement of or are of general interest to the General Assembly.

Motion: That the General Assembly records the report(s).

Decision:

30. OTHER ISSUES

Any other issues that the members want to raise for discussion.

Motion: That the discussion will be recorded and the Council will consider action that will be required.

Decision:

31. REPORT ON THE FIG WORKING WEEK 2020 IN AMSTERDAM, THE NETHERLANDS

Representatives from the Local Organising Committee from Geo-Information Netherlands, GIN will give a presentation on preparations of FIG Working Week 2020.

Motion: That the General Assembly records the report.

Decision:

32. REPORT ON THE FIG WORKING WEEK 2019 IN HANOI, VIETNAM

Representatives from the Local Organising Committee from the Vietnam Association of Geodesy - Cartography - Remote Sensing will give a presentation on preparations of FIG Working Week 2019.

Motion: That the General Assembly records the report.

Decision:

33. REPORT ON THE FIG CONGRESS 2018 IN ISTANBUL, TURKEY

Co-congress director Orhan Ercan from the Chamber of Surveying Cadastre Engineers of Turkey will give a presentation on the preparations of FIG Congress 2018.

Motion: That the General Assembly records the report

Decision:

34. PRESENTATION OF CERTIFICATES OF APPRECIATION AND CLOSING CEREMONY

INTERNATIONAL FEDERATION OF SURVEYORS**FIG 39th GENERAL ASSEMBLY
02 and 06 May 2016
Horncastle Arena (HA) - Christchurch, New Zealand****FIG 39th GENERAL ASSEMBLY****List of Minutes Items****Monday, 02 May, 09:00-12:30 and 13:30-16:00**

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FIG 39th GENERAL ASSEMBLY

MINUTES

for the meetings held on Monday 02 May 2016 and on Friday 06 May 2016 in Hall 3 at the
Horncastle Arena, Christchurch, New Zealand

MONDAY, 02 MAY

Monday, 02 May, 09:00-12:30 and 13:30-16:00
Conference Hall – Horncastle Arena
General Assembly, First Session

1. OPENING PROCEEDINGS

President Chryssy Potsiou opened the 39th General Assembly by welcoming all delegates to Christchurch, New Zealand and the second General Assembly during this four-year term. The President expressed her gratitude to members and delegates for their participation and acknowledged the hard work of NZIS and the local organising committee to ensure that this Working Week could take place at the Horncastle Arena knowing the rebuilding projects that takes place all over the city. The President mentioned that she was aware that some had had difficulties getting visa to New Zealand, and appreciated those who had managed to come.

The President welcomed Honorary Presidents Bob Foster, Stig Enemark and Teo CheeHai to the meeting and noted several greetings and apologies that were received from member associations and other members.

The President informed that unfortunately, two vice presidents, Pengfei Cheng and Bruno Razza, were not able to attend the Working Week. Both send their greetings and apologies to the General Assembly.

2. ROLL CALL

Vice President Rudolf Staiger took the roll call. The roll call was done for member associations only. Recorded that only member associations that have paid all their membership fees to the end of 2015 were allowed to vote at the meeting. A list of member associations that were not allowed to vote was published and posted on the FIG web site 12 April 2016.

Appendix to items 2 & 22: Roll Call including information on member associations that were not allowed to vote at the General Assembly because of unpaid membership fees for 2015, as updated on 2 and on 6 May 2016.

50 member associations out of 103 were present at this session, which is more than one third of the membership needed for the General Assembly to be constitutionally valid.

Motion: That those members present are recorded in the minutes.

Decision: The motion was adopted

3. APPOINTMENT OF TELLERS

The General Assembly shall appoint two persons as tellers for the entire General Assembly. The tellers will represent the member association hosting the current (NZIS), President Mark Allen and the host of the proceeding General Assembly (MIL/MAKLI, Finland) Martti Pietikainen.

Motion: That the General Assembly appoints President Mark Allen from NZIS and Martti Pietikainen from MIL/MAKLI as tellers for this General Assembly.

Decision: The motion was adopted

4. ADOPTION OF THE AGENDA

The Agenda for the General Assembly was issued as mandated, two months prior the General Assembly on the FIG web site and also sent digitally and by post to all members.

Motion: That the agenda be adopted.

Decision: The motion was adopted.

5. ADOPTION OF THE MINUTES OF THE 38th GENERAL ASSEMBLY

Minutes have been circulated previously.

Appendix to item 5: Minutes of the General Assembly in Sofia, Bulgaria, May 2015, without appendices.

Motion: That the minutes are adopted as recorded.

Decision: The motion was adopted.

6. MEMBERSHIP

6.1. Admittance of new Member Associations

FIG Council has received the following applications for member association since the 38th General Assembly.

6.1.1. Géographie, Topographie, Hydraulique, Energie et Construction (GEOTHECO) Uganda MA-10127

Géographie, Topographie, Hydraulique, Energie et Construction (GEOTHECO), Uganda has applied for association membership. The association was established in 2008. Their total membership (all categories) is 42. Géographie, Topographie, Hydraulique, Energie et Construction (GEOTHECO) fulfills the criteria of FIG Member association. Application form is attached as appendix to agenda item 6.1.1

Appendix to item 6.1.1: Membership application from Géographie, Topographie, Hydraulique, Energie et Construction (GEOTHECO), Uganda

Motion: That the General Assembly admits Géographie, Topographie, Hydraulique, Energie et Construction (GEOTHECO), Uganda to become a member association of FIG.

Decision: The motion was adopted.

6.1.2. The South African Geomatics Institute, SAGI-South Africa MA-10128

The South African Geomatics Institute, SAGI, South Africa has applied for membership. The association was established in 2004. Their total membership (all categories) is 570. SAGI fulfills the criteria of FIG Member association. There is already a member association from South Africa, and they have approved the application of SAGI.

Appendix to item 6.1.2:

- Membership application from The South African Geomatics Institute, SAGI, South Africa
- Letter of approval from PLATO

Motion: That the General Assembly admits The South African Geomatics Institute, SAGI, South Africa to become a member association of FIG.

Decision: The motion was adopted and the FIG President gave Peter Newmarch, President of SAGI the membership certificate.

6.2. Other Member Association Issues

6.2.1. Reinstallation of Federación Argentina de Agrimensores (FADA) Argentina, MA-10002

FADA was unfortunately expelled at the General Assembly in 2014 due to lack of payment. FADA has announced that they would like to return to FIG and has agreed to pay old arrears together with the 2016 membership fee. FIG Council has decided to reinstall FADA and to bring this decision forward to the General Assembly.

Motion: That the General Assembly admits to reinstall Federación Argentina de Agrimensores (FADA) Argentina as member association.

Decision/Action: The motion was adopted.

6.2.2. Termination - College of Engineers and Surveyors of Puerto Rico (MA-10069)

The College of Engineers and Surveyors of Puerto Rico (MA-10069) has regrettably decided to resign from FIG. FIG Council is thankful that the College of Engineers and Surveyors of Puerto Rico has cleared all arrears and there are no outstanding dues. FIG thanks the

association for all the work they have done throughout the years they have been member FIG looks forward to a time where they will find it fit to rejoin our global community.

Motion: That the General Assembly notes the resignation of the College of Engineers and Surveyors of Puerto Rico.

Decision: The motion was adopted.

6.2.3. Termination - The Irish Institution of Surveyors, (Ma-10042)

The Irish Institution of Surveyors has regrettably decided to resign from FIG, since they have merged with RICS, UK and will be represented through RICS from now on.

Motion: That the General Assembly notes the resignation of The Irish Institution of Surveyors

Decision: The motion was adopted.

6.2.4. Reinstallation of National Order of Cameroon Surveyors (NOCS) MA-10015

FIG General Assembly had to expel National Order of Cameroon Surveyors (NOCS) in 2014 due to lack of payments. Now, FIG Office has received full payments from previous years and for 2016, and FIG council has decided to forward to General Assembly that the association will be restored.

Motion: That the General Assembly restores National Order of Cameroon Surveyors (NOCS).

Decision/Action: The motion was adopted.

6.3. Expulsion of member associations

Subscriptions of following member associations are more than three years in arrears:

- Croatian Geodetic Society, Croatia (MA-10020)
- Fiji Institute of Surveyors, Fiji (MA-10028)
- Licensed Surveyors Association in Palestine, Palestina (MA-10065)
- Cadastral Surveyors Association Liberia (MA-10119)

The General Assembly has power to expel from the Federation any member association whose fees are in arrears and shall under normal circumstances expel any member association whose fees are three years in arrears. (Article 4.3 of the Statutes). The FIG office has sent information to these associations informing that if their membership fees are still in arrears at the time of the General Assembly the General Assembly shall expel the above member associations in Christchurch.

FIG Council has discussed the situation for the Licenced Surveyors Association in Palestine and deem that Licensed Surveyors Association in Palestine, Palestina to have suspended status taking their current situation into consideration.

Motion: That the General Assembly expels the:

- Croatian Geodetic Society, Croatia (MA-10020)
- Fiji Institute of Surveyors, Fiji (MA-10028) (are trying to pay)
- Cadastral Surveyors Association Liberia (MA-10119)

If no payment has been received before the General Assembly takes place.

And that the General Assembly notes the decision of FIG Council that the Licensed Surveyors Association in Palestine, Palestina (MA-10065) will be registered under suspension status for the year 2016.

Decision/Action: The motion was adopted.

It was noted that Croatian Geodetic Society, Croatia and Fiji Institute of Surveyors, Fiji paid their arrears during the week and their membership was restored at the second session of the General Assembly.

With the reinstatements, admissions and expulsions, the number of member associations is 105 from 91 countries.

6.4. Suspended status 2016

In accordance with its administrative measures, FIG Council, has decided to continue to defer for 2016 the issuance of a membership subscription invoice to the Order of Syrian Engineers and Architects, OSEA as all efforts to maintain contact with them has not yielded results, will deem their membership in suspension giving due consideration to its internal situation. As reported in the General Assembly 2015, there remain existing sanctions on Iran, but this might change during 2016. The FIG office in Denmark cannot for the time being receive payments from Iranian Professional Society of Surveying Engineers (ISS). Ukrainian Society of Geodesy and Cartography has also gained suspended status and has not been invoiced for 2016. Again in accordance with its administrative measures, FIG Council deem their membership to be in suspension. The situation with these associations will be reconsidered by Council again in 2017.

Motion: That the General Assembly notes the members with suspension status.

Decision: The motion was adopted.

6.5. Other membership issues

6.5.1. Affiliate members

The Council has admitted the following national agencies to become affiliate members:

- a) Survey and Land Registration Bureau, Kingdom of Bahrain (AF-20056)
- b) Cadastral Agency of Bulgaria, Bulgaria (AF-20058)
- c) The State Land Service of Latvia (AF-20057)

- d) LINZ – Land Information New Zealand (AF-20059)
- e) National Mapping and Resource Information Authority, NAMIRA, Philippines (AF-20060)
- f) State corporation Government for Citizens- Astana Kazakhstan (AF-20061)

Reinstallation:

- g) Dubai Municipality (AF-20032) – has returned as member of FIG and paid all arrears.

The council has expelled the following affiliate members because of unpaid membership subscriptions:

- a) ANZLIC, Australia (AF-20001)
- b) National Land Centre in the Ministry of Natural Resources, Rwanda (AF-20016)
- c) Alcaldía Mayor de Bogotá D.C., Colombia (AF-20046)

After these changes the number of Affiliate members is 49 from 46 countries.

6.5.2. Corporate members

- a) ISQ Portugal (CM-30051, Category F) has resigned
- b) COWI, Denmark ((CM 30011) has changed their membership to Category D.
- c) CM-30060 Beijing Spatial Corporation (category E)
- d) CM-30061 GeoReference, Engineering Consultants Saudi Arabia (category F)

After these changes the number of corporate members is now 24.

6.5.3. Academic members

FIG Council has admitted the following University to become Academic member:

- a) Ghent University Belgium (AC-40141)
- b) University West, Department of Engineering, Sweden (AC-40142)
- c) Papua New Guinea University of Technology (AC-40143)
- d) Polytechnic of Namibia, Department of Land and Property Sciences (AC-40144)
- e) University of Oradea – Faculty Of Construction, Cadastre And Architecture, Romania AC-40145

The Council has expelled following universities because of unpaid membership subscriptions:

- a) University of Botswana (AC-40010)
- b) University of Mines and Technology, Ghana (AC-40030)
- c) Universiti Teknologi Malaysia, Malaysia (AC-40041)
- d) Agricultural University of Cracow, Poland (AC-40054)
- e) University of Puerto Rico, Mayagüez Campus, Puerto Rico (AC-40055)
- f) Kingston University School of Surveying, United Kingdom (AC-40073)
- g) University of Prishtina Department of Geodesy, Kosovo (AC-40116)

The number of Academic Members after these changes is 92 from 55 countries.

6.5.4. Correspondents

The number of correspondents is unchanged from 2015, and amounts to one from Tonga.

Motion: That the General Assembly notes the actions that the Council has taken with other membership matters.

Decision: The motion was adopted. Membership certificates were handed out to the new members that were present, and the rest will be sent to the member by post.

7. PRESIDENT'S REPORT

President Chryssy Potsiou has prepared the President's report on the activities of the Federation since the General Assembly in Sofia, Bulgaria in May 2015.

Appendix to item 7: Handouts of the president's presentation.

Motion: That the General Assembly accepts the President's report.

Decision: The motion was adopted.

8. COUNCIL RESPONSES FROM GENERAL ASSEMBLY 2015

Minutes from FIG Member Association Forum 2015 were presented at the second General Assembly in Sofia, 21 May 2015. The following proposals were presented to the FIG Council. FIG Council promised to get back to the General Assembly 2016 with a follow up and status on these issues.

Council response is shown in italics.

1. Global Surveyors Day

- 1.1. Establishment of a Global Surveyors Day, and that there will be a GA decision in New Zealand.

FIG Council responded to this last year already. In principle FIG council endorses the idea, but the national associations should be the driver. FIG can provide a Web communication platform where national associations can exchange ideas. FIG can encourage the national associations to do some kind of happening, but cannot initiate the ideas. FIG Council has decided that FIG will not set a specific date and there will not be a General Assembly decision in Christchurch. Unfortunately FIG does not have people to carry this task through. If FIG sets a date there will be expectations that FIG will also do some kind of action.

- 1.2. Celebrations to be dedicated to a Surveyor of the Year and a topic from the broad field of surveying activities. Address to history group to suggest topics, and surveyors who may support the organisation of the events.

FIG Council has decided not to initiate a proposal of a Surveyor of the Year. The idea is good, but again, if this is initiated there will also be expectations that there will be some action which will be difficult throughout a year. FIG can distribute information.

2. Improvements in the established relations between the member states

- 2.1. Short information for every member association on FIG web site
This proposal is being implemented. In 2015, membership updates could be done electronically by the member and a text about the association included. All members are encouraged to submit a text. In the second half of 2016 the member association information will be available of FIG.
- 2.2. Link from FIG web site to the national web site
This feature has existed for many years on the web site. If a link is missing members are encouraged to contact FIG Office.
- 2.3. Template information in all FIG languages
It is decided and included in the Statutes and Internal Rules that the FIG language is English. It will not be possible for FIG to translate the information from national associations into other languages. FIG information (from web site) is already translated into various languages, and if a national member can formally translate the FIG information to another language, FIG Office will be happy to upload this on the FIG web site. FIG also encourages the national associations to include information about FIG in their national language on their national web site to spread out the information about FIG to as many as possible.
3. Changes and improvements in the management of FIG
 - 3.1. Visibility of the benefits of FIG Membership for the membership of national associations
FIG Council will work on making the benefits of being a member more visible. There are many benefits for a national association – some are fairly easy to describe, but many are intangible and difficult to measure. A first step could be for the national associations to include more information about FIG on their national web sites (as mentioned in 2).
 - 3.2. FIG should provide support for countries with little experience in certain survey practices. Professional support and guidelines are needed for the developing countries and countries in crisis
*FIG is an umbrella organisation, and is not working on a consultancy basis. It is not possible for FIG to engage in single cases, nor provide direct professional support, but FIG works on general principles that can be used by many, e.g. through the FIG Publications. There are no single solutions applicable to all, therefore it is not possible to use FIG brand to approve certain solutions. FIG has been approached several times for professional support, but we cannot do this as a NGO. FIG provides a good network of experts.
It is possible for members to get involved in the FIG technical commissions and through this channel get/provide information and get involved in the compilation of publications, etc. Therefore we should encourage members (and potential members) to participate in the work that is taking place in FIG especially through the commissions. It is also possible to use the LinkedIn forum (or facebook) to ask questions and receive replies.*

Appendix to item 8: Minutes from the FIG Member Association Forum 2015

Motion: That FIG General Assembly notes the update and records its thanks to the participants of the Member Association Forum 2015 for their active role in FIG and constructive proposals.

Decision/Action: The motion was adopted.

9. REPORTS FROM FIG COMMISSIONS

Each Commission Chair has submitted a written report on their Commission activities since the FIG Working Week in Sofia. These reports include progress reports of the Commission working groups. Each Commission will hold a meeting during the Working Week (Wednesday 4 May, 17:30-18:30). Each Commission gave a short report on Commission activities to the General Assembly apart from Commission 8, as the Chair of Commission 8 was unfortunately not able to come to Christchurch.

There were comments from delegates on commission 10 in relation to BIM (Building Information Management), and how the commissions can cooperate on this theme since it is inter-disciplinary, and BIM will have a large impact in the following years. Another question was about how much the commissions cooperate with other professional groups.

Appendices to item 9: Commission reports and handouts:

- Commission 1
- Commission 2
- Commission 3
- Commission 4
- Commission 5
- Commission 6
- Commission 7
- Commission 8
- Commission 9
- Commission 10

Motion: That the General Assembly adopts the reports of the Commission Chairs and records its thanks to the chairs and other officers of the Commissions for their ongoing contributions.

Decision: The motion was adopted.

10. REPORTS FROM FIG NETWORKS

Each Network Chair has submitted a written report on their Network activities since the FIG Working Week in Sofia. The Chairs of the Regional Capacity Network and Young Surveyors Network gave a short oral report on the Network activities to the General Assembly.

Appendices to item 10: Network reports and handouts:

- 10.1 Standards Network
- 10.2 Regional Capacity Network
- 10.3 Young Surveyors Network

Motion: That the General Assembly adopts the reports of the Network Chairs and records its thanks to the chairs and other officers of the Networks for their ongoing contributions.

Decision: The motion was adopted.

11. REPORTS FROM THE DIRECTORS OF PERMANENT INSTITUTIONS 2015-2016

11.1. International Office of Cadastre and Land Records (Office International du Cadastre et du Régime Foncier) OICRF

Dr. Christiaan Lemmen, Director of OICRF has prepared a report on the OICRF activities since the General Assembly in Kuala Lumpur. He made a short report to the General Assembly.

Appendix to item 11.1:

- Report from the International Office of Cadastre and Land Records (Office International du Cadastre et du Régime Foncier) OICRF.
- Handouts

Motion: That the General Assembly adopts the report and records its thanks to the members of OICRF for their past year's work and contribution.

Decision: The motion was adopted.

11.2. International Institution for the History of Surveying and Measurement, Permanent Institution of FIG

Mr. Jan de Graeve, Director of the IIHSM has prepared a report on the IIHSM activities since the General Assembly in Sofia. Unfortunately, the Chair, Jan de Graeve, was not able to attend. He and other members of IIHSM have attended FIG for almost 40 years each which is certainly an achievement for which the President thanked the active participants of IIHSM. John Brock, IIHSM, made a short report to the General Assembly.

Appendix to item 11.2: Report from the International Institution for the History of Surveying and Measurement, Permanent Institution of FIG.

Motion: That the General Assembly adopts the report and records its thanks to the Director and the members of the permanent institution for their past year's work and contribution.

Decision: The motion was adopted.

12. REPORT OF THE PRESIDENT OF THE FIG FOUNDATION 2015-2016

Mr. John Hohol, President of the FIG Foundation has prepared a report on the FIG Foundation activities from June 2014 to March 2016. He made a short report to the General Assembly. In this report he noted that this year is now the 7th time that Trimble supports the Foundation Dinner by a large contribution to the Foundation.

Appendix to item 12: Report of the FIG Foundation activities 2015-2016 and Result 2015 and handouts.

Motion: That the General Assembly adopts the report of the President of the FIG Foundation and records its thanks to the President and members of the Board of Directors of the FIG

Foundation for their past year's work, and to Trimble for the continued cooperation and support.

Decision: The motion was adopted.

13. REPORTS FROM THE FIG TASK FORCES (2015-2016)

FIG has currently four Task Forces.

13.1. Task Force on Real Property Markets

The Task Force assesses the progress of establishing the real property markets in the countries with economies in transition. The Task Force is chaired by Pekka Halme, Finnish Association of Geodetic and Land Surveyors MIL. A session on Real Property Markets will take place during this Working Week.

Appendix to item 13.1 – Status Report from the Task Force. Handouts.

Motion: That the General Assembly adopts the report from the Task Force and records its thanks to the Chair of the Task Forces and their members.

Decision: The motion was adopted.

13.2. Task Force on Corporate Members

The Task Force is established to strengthen the FIG relationship with corporate members. The Task Force is chaired by John Hohol, National Society of Professional Surveyors (NSPS) in cooperation with Bryn Fosburgh, Vice President of Trimble.

Appendix to item 13.2 – Status Report from the Task Force. Handouts.

Motion: That the General Assembly adopts the report from the Task Force and records its thanks to the Chair of the Task Forces and their members.

Decision: The motion was adopted.

13.3. Task Force on Scientific Journal

The Task Force is established to investigate the usefulness and need and if justified, the steps forward in order to introduce an FIG peer review Journal (electronic or printed). The Task Force is chaired by Yerach Doytsher, Association of Licensed Surveyors in Israel (ALSI). Council expects a final proposal to be presented and adopted at the General Assembly 2017. A special session is included in the technical programme at the WW2016 where the FIG Scientific Journal will be discussed.

Comments from delegates – *noted in italics:*

- *whether there is a need for a FIG Journal*
- *FIG covers too many topics for one journal*
- *several commissions already have a cooperation with a relevant journal*

- *difficult to start a journal, and especially to get it recognised, you start at the bottom.*
- *Scopus indexation can take a long time*

Appendix to item 13.3 – Status Report from the Task Force

Motion: That the General Assembly adopts the report from the Task Force, notes the proposed session and time line and records its thanks to the Chair of the Task Force and its members.

Decision: The motion was adopted.

13.4. Task Force on Commission Structure

The Task Force assesses the Commissions and investigates if there is a need to revise their structure and to provide a proposal on possible improvements. The Task Force is chaired by Mikael Lilje, Swedish professionals for the built environment, Samhällsbyggarna.

At the General Assembly under this agenda item there was a possibility for discussion of the proposal.

During the conference days of the Working Week Members of FIG will furthermore have a possibility to discuss the proposal in more details with the Task Force at:

- Lunch meeting on **Wednesday 4 May** grab your lunch bag and attend at Concourse Room, HA)
- The Member Association Forum on **Thursday 5 May** 11:00-12:30

A summary of the comments received during the first General Assembly session and these meetings will be presented at the 2nd General Assembly session together with a proposal on how to take the Task Force forward.

FIG President presented four possible options:

1	discussion paper (including minor edits) agreed	voting in GA 2017 Finland	call for nominations sept 17 (new structure)
2	Proposal with variation	voting in GA 2017 Finland	call for nominations sept 17 (new structure)
3	review continues until Istanbul 2018	voting for structure in Istanbul 2018	call for nominations sept 2016 for current structure for the next term 2019-22, and in 19/20 call for nominations for chairs elects within the existing/new structure.
4	review stopped/close the task force	current structure continues	call for nominations for 10 commission chairs elects in September 2016

Comments from delegates – *noted in italics*:

- *Concern that the proposal is not based on a thorough analysis of the need for a change*
- *The Task Force jumps too fast to a conclusion. More documentation on the proposed structure is required*
- *The current structure provides a home for all surveyors and includes the whole range of issues*
- *Changes must be considered carefully (a) to be inclusive and cover all aspects of surveying, (b) to be inclusive and provide space/official posts for those associations who wish to be active, (c) to be inclusive and cover all regions*
- *Recommends Council to consider carefully and give time to the members to discuss*
- *We are not in a hurry*
- *If few large commissions it will be too much for a commission chair to chair all parts of it*
- *Need to discuss the whole structure and not only the structure of the commissions*
- *Do not leave out commission 9 and 10. Real estate and construction are important areas for surveyors. FIG is an inclusive federation and should remain so.*
- *There is also the option to elect 10 commission chairs (within the current structure) in 2017.*

Council noted the comments and reminded the delegates to attend the lunch meeting where further discussion is possible.

Council furthermore invited to further discussions at regional level such as at the Workshop on Sustainable Real Estate Markets Policy Framework & Necessary Reforms in Athens, Greece and at Intergeo, October in Germany, in connection with the Africa Network meeting in November 2016, in the Asia region and if there are other possibilities in other areas.

Appendix to item 13.4

- Report from the Task Force.
- Handouts.
- Council proposal of options.

Motion: That the General Assembly

- records the report from the Task Force and records its thanks to the Chair of the Task Forces and their members
- records the organised meetings and possibilities for discussions
- records the proposed working and time schedule for the Task Force

Decision: The motion was adopted and the General Assembly proposed that the President will supervise and ensure the further communication, participation and engagement of Member Associations into discussions in order to facilitate the compilation of an improved version of the proposal to be submitted in time for a new decision (either adoption or further modification) during the next Working Week.

14. CO-OPERATION WITH THE UNITED NATIONS AND THE WORLD BANK

Since the 38th General Assembly, FIG has continued to collaborate with the World Bank and various agencies and structures within the United Nations. The collaboration within 2015/16 was reported by the FIG President under item 7, Presidents report.

Motion: That the General Assembly adopts the report on the co-operation between FIG and the United Nations, its agencies and the World Bank and records its thanks to all those who have contributed to this co-operation.

Decision: The motion was adopted.

15. LIAISON WITH INTERNATIONAL PROFESSIONAL ORGANISATIONS

The Joint Board of Spatial Information Societies JB-GIS was formally established during the FIG Working Week in Cairo in 2005 and meets annually during a major conference. The meeting of JB-GIS in 2015 was held in August 2015. FIG has collaborative MoUs with a number of the organizations who are part of JB-GIS.

FIG has further bilateral agreements of co-operation with several other international associations like ISM, IFHP, CIB, ION, ICEC, FIABCI, IFHS, PAIGH and PAQS.

FIG is represented in the International Construction Measurement Standard Coalition (ICMS) by Chair of FIG Commission 10, See Lian Ong who has been appointed chair of the Standard Setting Committee. FIG is represented in the Trustee Board by the President.

FIG is represented in International Land Measurement Standard Coalition (ILMS) by Mr. Maurice Barbieri.

FIG Council has furthermore decided to join the International Ethics Standard Committee Coalition.

FIG is a member of the International Council for Science (ICSU) and works together with ISO and International Valuation Standards Committee (IVSC) on standards.

The collaboration within 2015/16 was reported by the FIG President under item 7, Presidents report.

Motion: That the General Assembly records the report on the liaison with other international associations.

Decision: The motion was adopted.

16. FIG ACCOUNTS FOR 2015, AUDITOR'S REPORT AND BUDGETS 2016-2019

Vice President Rudolf Staiger presented the report to the General Assembly. The report includes the auditors report from 2015, official accounts (income statement 2015) and balance sheet 31 December 2015, a summary of 2015 accounts, an updated budget for 2016 and proposals for budgets 2017-2019 and proposal for membership fees for member associations in 2018.

Appendix to item 16: Report on Financial Issues (including 2015 accounts and budgets 2016-2019). Handouts.

Annexes:

- **16A** Auditor's Report, Income Statement for 2015 and Balance Sheet at 31 December 2015.
- **16B** FIG Result 2015
- **16C** FIG Budgets 2016-2019
- **16D** List of member associations whose membership fees are in arrears for 2015 and earlier and that are not allowed to vote (roll call).

Motion: That the General Assembly

- adopts the audited accounts for 2014,
- adopts the Finance Report, and
- adopts budgets for 2015–2018

Decision: The motion was adopted.

17. SUBSCRIPTION RATES FOR 2017 AND 2018

The General Assembly has to set levels of fees for member associations two years in advance of the year in which they become payable. Fees are payable in respect of each individual member up to a maximum of 5,500 members. The membership fee structure was changed in 2009. Membership fees have been discussed as part of the finance report, **appendix to item 16**.

The 2015 General Assembly approved membership fees for 2017 as follows under the condition that Council would re-consider at the end of 2016 whether it would be responsible to keep the fee stable.

Year	Per capita fee	Minimum fee	Maximum fee
2017	€4.48 per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay €2.24 member up to a maximum of 5,500 members.	20 members or €50 (whichever is greater)	5,500 members (€24,640)

The World Bank lists of the low-income economies and the lower-middle-income economies are available at: <http://data.worldbank.org/about/country-classifications/country-and-lending-groups>

The 2017 subscription fees were kept at the same level as for the years 2012-2015.

Although the budget 2017 shows a deficit and 2018 only a small surplus, Council is also conscious of the economic condition that members are operating under and in particular member's challenges with their national membership and budgets. Council wishes to respect this as well and both Council and FIG Office will continue to be prudent in its financial management. Council therefore proposed after reconsidering that the level of subscription for

member associations for 2017 and also for 2018 to remain at the same level as in the previous years. Council has initiated a Task Force to work on how to attract corporate members and the hope is to increase the fees received by corporate members to limit the deficit or turn it into a positive result. The current Memorandum of Understanding with Chinese Society for Surveying, Mapping and Geoinformation, CSSMG on Internships to the FIG office is another way to provide support to FIG. Vice President Staiger took the possibility in his presentation to thank CSSMG very much for this contribution.

Vice President Staiger commented during his presentation of the financial report that member associations should be prepared for an increase of fees for 2019.

Motion: That the General Assembly adopts following membership fees payable by member associations in 2017 and 2018:

Year	Per capita fee	Minimum fee	Maximum fee
2017 and 2018	€4.48 per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay €2.24 member up to a maximum of 5,500 members.	20 members or €50 (whichever is greater)	5,500 members (€24,640)

Decision: The motion was adopted.

18. ELECTION OF TWO VICE PRESIDENTS FOR 2017-2020 – PRESENTATION OF CANDIDATES

The FIG Council has received four proposals for the two open posts of FIG Vice President:

- Yerach Doytsher, Association of Licensed Surveyors in Israel
- Orhan Ercan, Chamber of Surveying and Cadastre Engineers of Turkey
- Sunil Laloo, Institute of Surveyors of Trinidad and Tobago
- Mikael Lilje, Swedish professionals for the built environment

The profile templates of each candidate are attached. Each candidate had 10 minutes to introduce himself and make a presentation focussing on his/her ideas and goals for developing the FIG agenda to the General Assembly. Sunil Laloo was unfortunately not present and there was no presentation of him.

The elections will take place at the second session of the General Assembly by blind votes on Friday 06 May. The elections will take place one position at a time. If there will be no absolute majority in the first voting, second vote will be organised between those two candidates that have most votes.

Appendix to item 18 and 24: Profiles of the candidates

- Yerach Doytsher, Association of Licensed Surveyors in Israel
- Orhan Ercan, Chamber of Surveying and Cadastre Engineers of Turkey

- Sunil Lalloo, Institute of Surveyors of Trinidad and Tobago
- Mikael Lilje, Swedish professionals for the built environment

Motion: That the General Assembly notes the presentations of the candidates, makes its careful consideration at the elections during the second session of the General Assembly on the 06 May.

Decision: The motion was adopted.

19. POSTPONEMENT OF ELECTION OF COMMISSION CHAIRS ELECT FOR 2017-2018

The General Assembly will normally elect a Chair Elect for each of the ten FIG Commissions for term of office 1.1.2017-31.12.2018. Under regular circumstances the elected Chair Elect will be elected as the Chair of the Commission at the FIG Congress 2018 for the period 2019-2022.

The General Assembly in 2015 appointed a Task Force to evaluate the current Commission structure and consider if any changes are needed. The recommendations of the Task Force on the Commission Structure and the decision of the General Assembly may or may not affect the number of commissions. Based on this on-going work, respectfully FIG Council has decided to postpone the election of Chair Elect for the 10 Commissions until the new structure has been settled or the current structure confirmed by the General Assembly. Voting for the period 2019 to 2022, for either structure scenario will take place in 2018 at the latest.

Motion: That the General Assembly notes the decision by FIG Council and adopts the proposed time frame.

Decision: The motion was adopted.

20. DECISION ON THE VENUE FOR FIG WORKING WEEK 2020 – PRESENTATION OF CANDIDATES

The FIG Working Weeks are organised by FIG together with a local member association. FIG will together with the local member association have full responsibility of the arrangements and of the financial result. This offers FIG better opportunities in terms of organising events and generating revenue. Therefore the Council has to ensure that all candidates are aware of the role of FIG and split of responsibilities for organising the Working Week.

The FIG Council has received two bids to host the FIG Working Week 2020, and FIG Council thanks all bidding member associations for their special engagement and contribution to FIG.

The Council has prepared a desktop summary on the bids. In the summary report the following considerations, as laid out in the invitation documentation, are described for comparison:

1. Rotation of the conferences (region);
2. Country (hosting of earlier FIG events, experience);

3. Member association (its activeness, commitment to FIG and to the Working Week, execution ability for local association);
4. Supporting organisations (local support to the Working Week, governmental support, financial support, general support);
5. Host city (characteristics and interest from congress programme point of view, host city attractiveness, host city offerings);
6. Venue (price/affordability, location of venue, internet availability suitability of rooms, size of venue, structure and layout of the venue, catering, value for money, hotels nearby facilities for exhibition);
7. Accessibility (flight connections, several access possibilities, security, visa issues, air fare to destination);
8. Safety and security (political stability, airport safety, city safety, political stability in the country - rating must be 3 or higher);
9. Proposed dates (must meet FIG requirements, Following FIG statutes, practical dates, availability of venue, other conferences at the same time)
10. Technical programme (coverage of all FIG Commissions, potential partners, originality, special ideas);
11. Technical tours (coverage of all FIG Commissions, originality, ideas proposed);
12. Social programme (attractiveness and variety, proposals for dinners, attractiveness of offered dinners, proposals for tours, is the programme following the overall FIG concept);
13. Attendance (expectation of international, regional and local attendance, realistic number of international and national participants);
14. Finances (estimate of surplus and financial risks, realistic fees proposed, fees in an acceptable price range, difference between international and national fees, realistic budget, estimated revenue);
15. Sponsorship (estimate sponsorship and exhibition income, proposed income, how realistic is proposed income, local sponsor offerings, sponsor interest to conference);
16. Why host (reason for hosting);
17. Objectives and outcomes (thought through why conference should be held at destination, difference to other destinations, short term outcome, long term outcome);
18. Suggested theme (thought of possible theme that fits to local/regional situation);
19. Events organised in the past three years (how experienced is the host in organising events)
20. Major events planned in the proposed city (many events might affect the price level):
21. Initiatives for sustainable conference environment (is host city, venue and local host paying attention to environmental issues);
22. New initiatives or activities (originality – but within the overall FIG concept)
23. What legacy to leave locally from the Working Week (with host, hosting city, for the surveying community)

The summary report will not give a recommendation or a preference to any candidate but it will provide useful information on each items listed above and summarise the pros and cons of each candidate to assist the member association in making their decision. The General Assembly must note that the issue of security and financial viability has come to the fore. The purpose of the evaluation process is to maintain the continued viability, high standard and quality of the FIG Working Week.

The Council has considered the bids and has decided to present the submitted bids to the General Assembly for its decision:

- a) Amsterdam, Netherlands, Geo-Information Netherlands

b) Interlaken, Switzerland, geosuisse

The General Assembly was recommended to read the summaries and the bids carefully.

Appendix to item 20 and 28:

- Summary Reports on the Bids for FIG 2020 Working Week
- Bidding documents for FIG 2020 Working Week:
 - a) Amsterdam, Netherlands, Geo-Information Netherlands
 - b) Interlaken, Switzerland, geosuisse

At the first session each candidate had 10 minutes to make a presentation of their proposal and framework of the Working Week and their bid.

Decision on the venue of FIG 2020 Working Week will be made at the second session of the General Assembly on 06 May. The voting will be made by blind votes.

Motion: That the General Assembly notes the submission, the summary report, and the presentations, makes its careful consideration and decision during the second session of the General Assembly on 06 May.

Decision: The motion was adopted.

**FRIDAY 06 MAY 2016
Friday, 06 May, 08:30-10:30,
Exhibition Hall, Horncastle Arena,
Christchurch, New Zealand**

21. FIG PRESIDENT'S MEETING (by invitation only)

The Presidents meeting was attended by 41 member associations, and in total 60 persons.

**Friday, 06 May, 11:00–12:30 and 13:30-15:00
Plenary Hall,
Horncastle Arena, Christchurch, New Zealand
General Assembly, Second Session and Closing Ceremony**

22. ROLL CALL

Vice President Rudolf Staiger took the roll call. The roll call was done for member associations only.

At the second General Assembly 53 Member Associations were present out of 105 representing 68 votes for the Vice Presidents. Later two more Associations arrived, in total 55 associations, and the total votes for the destination for the Working Week 2020 was 70 votes. Together with observers around 250 persons participated in the General Assembly. Canadian Institute of Geomatics (1 vote) was unfortunately wrongly listed as not allowed to vote, although they had paid their arrears on 20 April.

Appendix to items 2 & 22: Roll Call including information about member associations that are not allowed to vote at the General Assembly because of unpaid membership fees for 2015 and earlier.

Motion: That those members present are recorded in the minutes.

Decision: The motion was adopted.

23. MEMBERSHIP

The Council informed the General Assembly that Croatian Geodetic Society, Croatia (MA-10020) and Fiji Institute of Surveyors, Fiji (MA-10028) have paid their arrears after the first session of the General Assembly and their membership have been restored. President of CGS, name, gave a recently published book on Boskovic to FIG President Potsiou and NZIS President Mark Allen.

The Council informed that FIG Affiliate Member ANZLIC, Australia, has back in 2013 sent a letter to FIG Office in which they announce that they would like to terminate their membership within FIG. This has not been noted nor recorded until now, and ANZLIC will be recorded as terminated in stead of expelled.

With the latest amendments the number of Member Associations is 105 from 91 countries.

Motion: That the General Assembly notes the updates on the Membership.

Decision: The motion was adopted.

24. ELECTION OF TWO FIG VICE PRESIDENTS FOR 2017-2020

This General Assembly elected two Vice Presidents for the term of office 1.1.2017-31.12.2020.

Since the first General Assembly on 2 May 2016, Sunil Laloo, Institute of Surveyors of Trinidad and Tobago has unfortunately decided to withdraw his bid due to the fact that he did not manage to come to the Working Week 2016 because of extensive work load.

This means that there remain three candidates for the two positions.

The election took place between:

- Yerach Doytsher, Association of Licensed Surveyors in Israel
- Orhan Ercan, Chamber of Surveying and Cadastre Engineers of Turkey
- Mikael Lilje, Swedish professionals for the built environment

The elections took place by blind votes following the FIG statutes and internal rules. The elections took place one position at a time.

In the first round Yerach Doytsher got 19 votes, Orhan Ercan 16 votes and Mikael Lilje 33 votes. There were no invalid votes. Total votes were 68. The second vote was then arranged between Yerach Doytsher and Mikael Lilje.

In the second round Yerach Doytsher got 20 votes and Mikael Lilje 48 votes. There were no invalid votes. Total votes were 68.

For the second position the vote was then arranged between Yerach Doytsher and Orhan Ercan.

In the vote for the second position Yerach Doytsher got 32 votes and Orhan Ercan 36 votes. There were no invalid votes. Total votes were 68.

Motion: This General Assembly elects two Vice Presidents for the term 2017-2020.

Decision: The General Assembly elected Mr Mikael Lilje and Mr Orhan Ercan as Vice Presidents for the term 2017-2020 after they got the majority of the votes in the elections. FIG President Potsiou thanked all candidates for their contributions and willingness to serve FIG.

25. REPORTS FROM COMMISSIONS, NETWORKS, PERMANENT INSTITUTIONS, FIG FOUNDATION AND OTHER WORKING WEEK ACTIVITIES

FIG Vice President Diane Dumashie reported back on ACCO and Commission activities throughout the Working Week.

Diane Dumashie reported back that she in the capacity as Chair of the Regional Capacity Building Network had a meeting with Rob Sarib in order to start a Regional Capacity Network in the Asia/Pacific area.

FIG Foundation reported back to the General Assembly on the donations received in connection with the Working Week, hereunder from the Young Surveyors Charity Run.

Appendix: Report from:

- FIG Commissions
- FIG Foundation
- Regional Capacity Development Network
- Young Surveyors Network

Motion: That the General Assembly records the reports.

Decision: The motion was adopted.

26. FIG TASK FORCES

The four Task Forces had meetings during the Working Week. There were reports back from three of the Task Forces:

26.2. FIG Corporate Members

John Hohol reported back from the corporate members meeting on Task Force activities.

- Hand outs

Motion: That the General Assembly records the report.

Decision: the motion was adopted.

26.3. Scientific Journal

Yerach Doytsher reported back from the Task Force meeting.

- Hand outs

Motion: That the General Assembly: records the report, endorses results from the meeting and endorses suggested time schedules and action items for the future work of the Task Forces.

Decision: The motion was adopted

26.4. Commission Structure

Mikael Lilje reported back on the meetings that were held on Commission Structure. Council presented a response and proposal for the next steps, also listed in item 13.4.

Appendices: Report, Council response

Motion: That the General Assembly:

- records the reports
- endorses results from the meetings
- endorses suggested time schedules and action items for the future work of the Task Forces

Decision: The motion was adopted.

27. REPORTS FROM ASSOCIATION, AFFILIATE, ACADEMIC AND CORPORATE MEMBERS FORUM (IF ANY)

During the Working Week there were Member Association Forum, the Director General's/Affiliate Members Forum, Academic Members Forum and Corporate Members Meeting.

Brent Jones, ESRI, reported back on the corporate members meeting incl an evaluation of the Working Week 2016

Appendix: Handouts

Motion: That the General Assembly records the report

Decision: The motion was adopted.

28. DECISION ON THE VENUE FOR 2020 FIG WORKING WEEK

Candidates for FIG 2020 Working Week have made their presentations in the first session of the General Assembly and FIG Council has presented its evaluation. The decision will be made between:

- Amsterdam, Netherlands, Geo-Information Netherlands
- Interlaken, Switzerland, geosuisse

The decision took place by blind votes following the FIG statutes and internal rules.

In the voting Amsterdam, Netherlands got 41 votes and Interlaken, Switzerland 29 votes. There were no invalid votes. Total votes were 70.

Motion: This General Assembly decides the host and venue for FIG 2020 Working Week.

Decision: The General Assembly decided that the FIG Working Week 2020 will be hosted jointly by Geo-Information Netherlands and FIG and will take place in Amsterdam, Netherlands.

29. OTHER ISSUES

Ms Claire Galpin raised the issues on migration, refugees and migrants, and whether FIG can do anything on this matter. Currently this is especially relevant for the Mediterranean area. FIG President Potsiou informed that this was discussed in the Director General Forum and furthermore that FIG Council will discuss this issue in order to find out what role FIG may have.

Motion: That the discussion will be recorded and the Council will consider action that will be required.

Decision: The motion was adopted.

30. REPORT ON THE FIG WORKING WEEK 2019 IN HANOI, VIETNAM

Mr Co, Co-conference Director and Chair of the Local Organising Committee from the Vietnam Association of Geodesy - Cartography - Remote Sensing gave a presentation on preparations of FIG Working Week 2019. The Working Week will be held 22-26 April 2019.

Motion: That the General Assembly records the report.

Decision: The motion was adopted.

31. REPORT ON THE FIG CONGRESS 2018 IN ISTANBUL, TURKEY

Co-congress director Orhan Ercan from the Chamber of Surveying Cadastre Engineers of Turkey gave a presentation on the preparations of FIG Congress 2018. The Congress will take place 6-11 May 2018. The web site is live: www.fig.net/fig2018 and will constantly be updated.

Motion: That the General Assembly records the report

Decision:

32. REPORT ON THE FIG WORKING WEEK 2017 IN HELSINKI, FINLAND

Co-conference director Pekka Halme, MIL and MAKLI, gave a presentation on the preparations of FIG Working Week 2017. The Working Week will take place on 29 May – 2 June 2017 with the overall theme “Surveying the World of Tomorrow – From Digitalisation to Augmented Reality. The Call for Papers and the online submission form for papers will soon be opened. Conference web site: www.fig.net/fig2017

Motion: That the General Assembly records the report.

Decision: The motion was adopted.

33. PRESENTATION OF CERTIFICATES OF APPRECIATION AND CLOSING CEREMONY

FIG President Potsiou thanked FIG members and participants of the General Assembly. President Potsiou presented at the closing ceremony certificates of appreciation to the members of the local organising committee of the XXXIX FIG General Assembly and the FIG Working Week 2016. Special thanks were recorded to New Zealand Institute of Surveyors, NZIS and its President Mark Allen, and Co-Conference Director Simon Ironside. FIG president also gave Mr David Mitchell a certificate of appreciation for his outstanding work on the SIDS Workshop.

At the closing ceremony the FIG banner was handed over by Mr Mark Allen, President of NZIS and Mr. Simon Ironside, Co-Conference Director to Mr. Pekka Halme, Co-Conference Director of FIG Working Week 2017, President Martti Pietikainen, MAKLI and Paavo Häikiö, MIL. The FIG Working Week 2017 will be held in Helsinki, Finland, 29 May – 2 June 2017.

President Chryssy Potsiou presented her closing address that summarises the finding and the main outcomes of the FIG Working Week 2016. The President formally closed the 39th General Assembly of FIG Working Week 2016 with the FIG Fanfare.

Appendix: Handouts of the President’s Closing Address



International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure

Membership Application for a Member Association

General

Full membership of the International Federation of Surveyors (FIG) is open to a national association representing one or more of the disciplines of surveying (see the following FIG definition of a surveyor) and whose members

- possess relevant academic qualifications (which should normally be equivalent to at least UNESCO International Standard Classification of Education (ISCED) level 5 degrees) plus approved professional experience; and
- who provide professional services in accordance with ethical standards.

Associations which include technician grades of membership are also eligible for membership of the Federation.

A group of surveyors or surveying organisation, comprised of individuals who practise the profession of surveying, which does not fulfil the criteria for membership as a member association can be admitted to join the Federation as an affiliate member. An affiliate may be admitted to membership where the discipline or disciplines it represents are not already represented within the Federation by a member association from the same country. The admission of an affiliate should normally be a step towards the development of an association which can eventually become a member association.

Each category of membership provides opportunities for establishing contact with the international surveying community and thereby assisting with the development of indigenous academic and professional training programmes, including CPD facilities, and the development of technical and professional standards.

Only member associations are entitled to vote at FIG's annual administrative meetings. An affiliate and other members may nominate a representative to attend as an observer. All FIG members receive copies of FIG publications, monthly e-Newsletters and the Annual Review; and are entitled to nominate one delegate to each of FIG's ten technical commissions. Participation to the Commission work is one of the most important benefits of membership of FIG. However these benefits only come about if those nominated as delegates participate in the work of the commissions and publicise the results within their own countries; and FIG has therefore published guidelines for its members and for their national commission delegates.

As from 1 January 2016 the annual fee payable by a member association is 4.48 € per member of the association for a calendar year. Minimum fee is 20 members or 50 € per member association and maximum fee 5,500 members (24,640 €). Member associations from the poorest countries (countries listed by the World Bank as low-income economies or lower-middle-income economies) shall pay 2.24 € per member up to a maximum of 5,500 members in 2016.

An association wishing to apply for full membership should complete the relevant application form and return it to the Council. Applications are assessed first by the Council, which decides whether to recommend them for approval by the General Assembly.

In the case of an application received from an association in a country which already has one or more member associations, these associations shall be informed of the application and their comments sought.

FIG DEFINITION OF SURVEYOR

A surveyor is a professional person with the academic qualifications and technical expertise to practise the science of measurement; to assemble and assess land and geographic related information; to use that information for the purpose of planning and implementing the efficient administration of the land, the sea and structures thereon; and to instigate the advancement and development of such practices.

Practice of the surveyor's profession may involve one or more of the following activities which may occur either on, above or below the surface of the land or the sea and may be carried out in association with other professionals.

1. The determination of the size and shape of the earth and the measurement of all data needed to define the size, position, shape and contour of any part of the earth.
2. The positioning of objects in space and the positioning and monitoring of physical features, structures and engineering works on, above or below the surface of the earth.
3. The determination of the position of the boundaries of public or private land, including national and international boundaries, and the registration of those lands with the appropriate authorities.
4. The design, establishment and administration of land and geographic information systems and the collection, storage, analysis and management of data within those systems.
5. The study of the natural and social environment, the measurement of land and marine resources and the use of the data in the planning of development in urban, rural and regional areas.
6. The planning, development and redevelopment of property, whether urban or rural and whether land or buildings.
7. The assessment of value and the management of property, whether urban or rural and whether land or buildings.
8. The planning, measurement and management of construction works, including the estimation of costs.
9. The production of plans, maps, files, charts and reports.

In the application of the foregoing activities surveyors take into account the relevant legal, economic, environmental and social aspects affecting each project.

FIG MEMBERS AND THEIR COMMISSION DELEGATES

The purpose of these guidelines is to help ensure that the full benefits of FIG membership are passed down to all the individual members of associations or other organisations that are members of the Federation.

To ensure that these individual members are kept fully informed of and input where necessary to the work of FIG and its commissions, FIG recommends that

- FIG members should support, or encourage others to support, the attendance of national commission delegates at annual FIG working weeks (including annual commission delegate meetings and technical symposia) and other symposia organised by the commissions
- FIG members and their national commission delegates should consider establishing networks within their countries to communicate information and obtain feedback
- national commission delegates should be actively involved in commission activities, including responding to questionnaires or correspondence and identifying topics and authors of papers for commission symposia and FIG congresses
- FIG members should seek and encourage funding support to enable national commission delegates to attend FIG activities, including commission meetings

National commission delegates should write at least one annual report for publication in a local newsletter or technical journal or for dissemination by some other means to individual members of their association or organisation.

International Federation of Surveyors

Application form for Membership as a Member Association

1. Name of association
in own language : **Ordre des Géomètres Experts de Côte d'Ivoire (OGECI)**
.....
in English (if different from above).....
Order of Land Surveyors Expert of Cote d'Ivoire.....
2. Address. **01 BP 8181 Abidjan 01 Côte d'Ivoire**.....
3. Telephone no **(225) 22 44 96 94**
4. Fax no **(225) 22 48 75 29**
5. e-mail address **ogeci@aviso.ci**.....
Home page address **http://www.geometre-expert.ci**
- Logo (please attach a high resolution logo of the association as .jpg file or add the link): **see logo-ogeci.jpeg**
6. Name of President Emile **KOKOH ADJOU MANY**
7. Administration

Is the above address the address of the permanent office of the association? If so, please state the name of the chief executive and the number of any other permanent staff members

KOKOH ADJOU MANY EMILE	PRESIDENT	(225) 05 05 53 59
BRAHIMA TRAORE	VICE - PRESIDENT	(225) 07 07 04 00
DJESSAN DJOHOUEHI ANTOINE	GENERAL SECRETARY	(225) 08 67 04 04
ABOUBACAR YACOUBA SANOGO	GENERAL TREASURER	(225) 08 09 16 65
FADIGA SORY IBRAHIM	DEPUTY SECRETARY	(225) 05 04 32 74
ELIAS AIME YAPO	DEPUTY TREASURER	(225) 07 90 53 32

8. Date of formation of association **08/03/1970**
9. Objectives and ethics
(See attached separate sheets)

Please summarise on a separate sheet the objectives of the association and state whether it enforces disciplinary procedures; and enclose a copy of its constitution and rules (including, where applicable, its code of conduct).

10. Routes of entry to membership

Please provide the following information on a separate sheet

- the title held by qualified members of the association: **Surveyors Expert**
- the level of academic qualification required to obtain the title: **Postgraduate**
- whether academic training programmes to this level are available in your country (if not, please state how and where members obtain their academic training): **YES**
- what approved professional experience is required on completion of academic training and prior to acquisition of the title: **TWO years**
- what the requirements are for continuing professional development and whether this is mandatory or voluntary: **mandatory**

11. Members

No. of holders the title	qualified. 35
	qualifying 0
No. of technician or sub-professional members	qualified 0
	qualifying 0

12. Specialisations

% of qualified members whose principal specialisation is

- hydrography **100%**
- positioning/measurement
- engineering surveys
- cadastre/land management
- spatial planning/development
- valuation/real estate management
- construction cost management

13. Statutory recognition

Is the association constituted by statute? **YES**

Please list on a separate sheet those activities undertaken by your members which are regulated by statute and state whether any or all of these can be performed only by members of your association. If not, please state who else can acquire the title to perform any of the activities.

14. Employment

% of qualified members

- self-employed and employed in private practice. **100%**
- teaching.
- employed by government.
- employed in the commercial or other sectors.

15. Subscriptions

Please state the annual subscription payable by each grade of membership: **400 \$**

16. Services to members

Does the association publish a journal (if so, please state title and frequency) **NO**.

Following services are provided by the members:

- **Pension Plan,**
- **Training, Health Insurance,**
- **visas, participation to events in foreign countries,**
-
-

Please list on a separate sheet any other services that the association provides for its members.

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Please send or fax to FIG office: International Federation of Surveyors, Kalvebod Brygge 31-33, DK-1780 Copenhagen V, DENMARK, E-mail: FIG@fig.net, tel. + 45 3886 1081

OGECI : Objectives and ethics

The profession of chartered surveyor is a professional, applied by a technician in his own name and under its responsibility, personal, rises, rises, at all scales topographic documents, plans of land, carry out any technical operations or studies, as defined below:

- cadastral works;
- rural and urban parcel plans;
- boundaries and property boundary markers;
- detailed measurements of sports facilities for the approval of performance;
- architectural surveys;
- leveling, profiles, cubatures courses and materials;
- triangulations and basic traverses or resections;
- plans road alignments;
- ongoing plans of railways;
- station plans;
- topographical plans sides to various studies;
- studies, projects, implementation and management of work on:
 - subdivisions, roads, railways, power lines, pipelines, land improvements such as land consolidation, drainages, irrigations, fight against erosion, water supply, rural roads;
 - land appraisals, agriculture and forestry, estimates, shares, exchanges; management and administration of land private property; measurements and geometric crop weighed.

Membership of the Order is incompatible with a public officer charged with or any kind of occupation to undermine its independence in particular, with the acceptance of any commercial mandate or any remunerated by salary or wages, even in another surveyor, except in cases of temporary missions of the State or a public community.



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As from 1 January 2011 the annual fee payable by a member association is 4.30 € per member of the association for a calendar year. Minimum fee is 20 members or 50 € per member association and maximum fee 5,500 members (23,650 €). Member associations from the poorest countries (countries listed by the World Bank as low-income economies or lower-middle-income economies) shall pay 2.15 € per member up to a maximum of 5,500 members in 2011.

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7. The assessment of value and the management of property, whether urban or rural and whether land or buildings.
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National commission delegates should write at least one annual report for publication in a local newsletter or technical journal or for dissemination by some other means to individual members of their association or organisation.

International Federation of Surveyors

Application form for Membership as a Member Association

1. Name of association

in own language. . . . **TANZANIA INSTITUTION OF VALUERS AND ESTATE AGENTS (TIVEA)** . .

in English (if different from above).
.....
2. Address. . . . Agip House Mwenge, Plot 4 Kijitonyama (for Contact Purposes)
P O Box 32309, Dar es Salaam, TANZANIA
3. Telephone no . **+255 769 332 165**
4. Fax no. . . . +255 222 775 238.
5. e-mail address. . **fkomu@yahoo.com** and **info@tivea.org**
.....

Home page address. . **www.tivea.org**

Logo (please attach a high resolution logo of the association as .jpg file or add the link): . . **http://tivea.org/images/logo-tivea.jpg**.
6. Name of President . Mr Linus Kinyondo
7. Administration

Is the above address the address of the permanent office of the association? If so, please state the name of the chief executive and the number of any other permanent staff members .
– **Professional Association** with elected leadership
(1) President as overall executive
(2) Vice-President
(3) Hon Secretary
(4) Deputy Hon Secretary
(5) Treasurer
(6) Land Economy Chapter Representative (Valuers)
(7) Property/Facilities Management Chapter Representative (Facilities Managers and Real Estate Finance Analysts)
(8) Estate Agency Chapter Representative
.....
.....
8. Date of formation of association . . 4th September 1997

9. Objectives and ethics

A: Objectives

- (i) To support and protect the character, status and interests of the profession of Land economy Surveying and estate agency and to uphold a high code of professional conduct among its members.
- (ii) To engender a close relationship with other professional bodies both nationally and internationally associated with the construction industry and land management
- (iii) To secure the advancement and facilitate the acquisition of knowledge which constitutes the professions of land economy surveying and estate agency.
- (iv) To promote research in, and disseminate knowledge and information on subjects relating to or affecting the professions of land economy surveying and estate agency by means of lectures, seminars, publications and workshops.
- (v) To provide expertise in the economics of construction and land with the aim of achieving optimum use of invested resources.
- (vi) To co-operate with institutions of higher learning which provide academic training for the profession of land economy surveying
- (vii) To interview and recommend registration and deregistration of professionals and firms to the National Council of Professional Surveyors.
- (viii) To recommend to the National Council of Professional Surveyors to take appropriate measures against persons who seem to or are interfering with TIVEA'S interests or its members interests.

TIVEA Code of Conduct

- (i) It is a condition of membership that each and every Full Member and Affiliated Member shall conform to the Rules of Professional Conduct as provided for in the Bye-Laws so as to uphold the dignity of the Profession and Institution (S 11 of the Constitution)
- (ii) The following Categories of persons shall be ineligible for membership of the Institution; Any person who;
 - a. is serving sentence for criminal offence or
 - b. has been refused registration as a Valuer, Land Manager, Property Manager or Estate Agent by the National Council of Professional Surveyors or,
 - c. is currently subjected to the disciplinary provisions of Clause - of the Professional Surveyors (Registration) Act of 1977.
 - d. for a reasons which are considered by the Council to be contrary to the Code of Conduct detailed in By - Law No. 10 will be ineligible for membership of the institution.
- (iii) **PRINCIPLES OF PROFESSIONAL CONDUCT (S 10.1)** A member shall at all times fully discharge his duties and shall not commit any act which will have the effect of avoiding or diminishing professional responsibility.
 - 10.2 A member shall at all times be honest in his dealings and his decisions shall be made with integrity of purpose.
 - 10.3 A member shall at all times be free from corruption
 - 10.4 A member's advice shall at all times be impartial
 - 10.5 A member must never place himself in a position where his duties are likely to create a conflict with his professional interest.

- 10.6 A member shall at all times act in an honourable manner towards his professional colleagues.
- 10.7 No Member shall conduct himself in such a manner as would in the opinion of the Council prejudice his professional status or the reputation of the Institution.
- 10.8 No Member shall in any way be connected with any occupation or business if such connection is, in the opinion of the Council, inconsistent with membership of the Institution.
- 10.9 Members who are Principals shall be held responsible for the acts of their partners, fellow directors and staff so far as they relate to matters coming within the scope of professional practice.

Code of Conduct –Extracted from Constitution

11. CODE OF CONDUCT Without derogation of the Council's authority to include other matters a member shall be guilty of professional misconduct if he should:
- 11.1 Act or be a partner, principal, director or shareholder in any firm or Company carrying on business.
- 11.2 Accept a commission for Valuation, Land/Estate Management and Estate Agency services for which he is paid other than fee, salary or royalty.
- 11.3 Act in a professional capacity for a third party to whom his principals owe contractual duty.
- 11.4 Allow his name and professional affixes to appear on the letter heads tendered on behalf of a firm or company other than in connection with his professional services to the firm or company
- 11.8 Advertise or tout his professional services or make announcement in the press except to: (a) publish in the press and notify his correspondents by post once of any change of address, opening of a firm or branch office, temporary or permanent closure of a firm or branch office, change of office hours or alterations in the partnership or constitution of a firm. (b) advertise in the press or professional journals for the purpose of notifying interested parties of a vacant position with his

Disciplinary Matters- extracted from Constitution

12. DISCIPLINARY POWERS
- 12.1 Should any complaint be received in writing by the Honorary Secretary concerned the conduct of a member, the matter shall be reported to the Council. The Council shall send a copy of the complaint by registered letter or recorded delivery to the member concerned and refer the matter to a Disciplinary Committee which shall be appointed by the Council for the purpose.
- 12.2 The Disciplinary Committee shall consist of three Full members, at least one of whom shall be a Council member. Should the member to be investigated have grounds for objection to the inclusion of any persons(s) in the Disciplinary Committee, he must so inform the Council. In the event of the objection being sustained, the Council will re - appoint the Committee as appropriate.

12.3 The Disciplinary Committee shall make such investigation as it considers appropriate and the member shall be invited to appear in person and/or to be represented by another person who need not necessarily be legally qualified. Please summarise on a separate sheet the objectives of the association and state whether it enforces disciplinary procedures; and enclose a copy of its constitution and rules (including, where applicable, its code of conduct).

10. Routes of entry to membership

Please provide the following information on a separate sheet

- the title held by qualified members of the association
 - (1) Fellow:**
 - a. must have an undergraduate degree in land management and valuation, real estate or relevant
 - b. must have been registered by the National Council of Professional Surveyors in the Category Fully Registered Surveyor or a Fellow of the Royal Institution of Chartered Surveyor of the UK
 - (2) Associate Member- Graduate as above and registered by the National Council of Professional Surveyors having worked under supervision for at least 2 years**
- **Academic Training is available in the country (BSc Land Management and Valuation, BSc Real Estate Finance and Investment, BSc Facilities Management as well as MSc and PhD in the fields offered by Ardhi University. Bachelors Degrees run for 4 years**
-
- what the requirements are for continuing professional development and whether this is mandatory or voluntary
- **TIVEA RUNS CONTINUING PROFESSIONAL Development Programmes that are recognized by the Academic and Government Institution in the country.**
- if the association also admits technician or sub-professional members and, if so, the qualifications required for entry to this grade of membership

11. Members

No. of holders the title	qualified. 334
	qualifying ... over .. 600
No. of technician or sub-professional members	qualified Not applicable
	qualifying

12. Specialisations

% of qualified members whose principal specialisation is

- hydrography
- positioning/measurement
- engineering surveys
- cadastre/land management
- spatial planning/development ... 12
- valuation/real estate management .. 334
- construction cost management ... 0

13. Statutory recognition

Is the association constituted by statute? . . . **Registrar of Societies**

Please list on a separate sheet those activities undertaken by your members which are regulated by statute and state whether any or all of these can be performed only by members of your association. If not, please state who else can acquire the title to perform any of the activities.

- (1) Valuation of Real Estate and Assets for all purposes must be done by Registered Valuation Surveyors under the National Council of Professional Surveyors
- (2) All Property Management and Agency by registered valuation surveyors and in addition must be members of the TIVEA/

14. Employment

% of qualified members

- self-employed and employed in private practice. . .12.8% (43)
- teaching. 3.6% (12)
- employed by government. 62.6% (209)
- employed in the commercial or other sectors. . . . 21%(70) . . .

15. Subscriptions

Please state the annual subscription payable by each grade of membership

Fellow Members \$ 25

Associate Members \$ 15

Corporate Members \$75

16. Services to members

Does the association publish a journal (if so, please state title and frequency)

None, except for the Website and a planned newslettet

Please list on a separate sheet any other services that the association provides for its members.

- (1) **Annual seminars on topical issues in the fields of land management, valuation, land tenure reforms**
- (2) TIVEA is invited by Government as well as the private sector foundation to participate in several debates and policy dialogue on a number of issues
- (3) TIVEA championed amendments of the old law for registration of Surveyors (Act No. 2 of 1977) and a new Valuation Bill is likely to be passed by the Parliament before June 2016.

Please send or fax to FIG office: International Federation of Surveyors, Kalvebod Brygge 31-33, DK-1780 Copenhagen V, DENMARK, E-mail: FIG@fig.net, tel. + 45 3886 1081, fax + 45 3886 0252



International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure

Membership Application for a Member Association

General

Full membership of the International Federation of Surveyors (FIG) is open to a national association representing one or more of the disciplines of surveying (see the following FIG definition of a surveyor) and whose members

- possess relevant academic qualifications (which should normally be equivalent to at least UNESCO International Standard Classification of Education (ISCED) level 5 degrees) plus approved professional experience; and
- who provide professional services in accordance with ethical standards.

Associations which include technician grades of membership are also eligible for membership of the Federation.

A group of surveyors or surveying organisation, comprised of individuals who practise the profession of surveying, which does not fulfil the criteria for membership as a member association can be admitted to join the Federation as an affiliate member. An affiliate may be admitted to membership where the discipline or disciplines it represents are not already represented within the Federation by a member association from the same country. The admission of an affiliate should normally be a step towards the development of an association which can eventually become a member association.

Each category of membership provides opportunities for establishing contact with the international surveying community and thereby assisting with the development of indigenous academic and professional training programmes, including CPD facilities, and the development of technical and professional standards.

Only member associations are entitled to vote at FIG's annual administrative meetings. An affiliate and other members may nominate a representative to attend as an observer. All FIG members receive copies of FIG publications, monthly e-Newsletters and the Annual Review; and are entitled to nominate one delegate to each of FIG's ten technical commissions. Participation to the Commission work is one of the most important benefits of membership of FIG. However these benefits only come about if those nominated as delegates participate in the work of the commissions and publicise the results within their own countries; and FIG has therefore published guidelines for its members and for their national commission delegates.

As from 1 January 2011 the annual fee payable by a member association is 4.30 € per member of the association for a calendar year. Minimum fee is 20 members or 50 € per member association and maximum fee 5,500 members (23,650 €). Member associations from the poorest countries (countries listed by the World Bank as low-income economies or lower-middle-income economies) shall pay 2.15 € per member up to a maximum of 5,500 members in 2011.

An association wishing to apply for full membership should complete the relevant application form and return it to the Council. Applications are assessed first by the Council, which decides whether to recommend them for approval by the General Assembly.

In the case of an application received from an association in a country which already has one or more member associations, these associations shall be informed of the application and their comments sought.

FIG DEFINITION OF SURVEYOR

A surveyor is a professional person with the academic qualifications and technical expertise to practise the science of measurement; to assemble and assess land and geographic related information; to use that information for the purpose of planning and implementing the efficient administration of the land, the sea and structures thereon; and to instigate the advancement and development of such practices.

Practice of the surveyor's profession may involve one or more of the following activities which may occur either on, above or below the surface of the land or the sea and may be carried out in association with other professionals.

1. The determination of the size and shape of the earth and the measurement of all data needed to define the size, position, shape and contour of any part of the earth.
2. The positioning of objects in space and the positioning and monitoring of physical features, structures and engineering works on, above or below the surface of the earth.
3. The determination of the position of the boundaries of public or private land, including national and international boundaries, and the registration of those lands with the appropriate authorities.
4. The design, establishment and administration of land and geographic information systems and the collection, storage, analysis and management of data within those systems.
5. The study of the natural and social environment, the measurement of land and marine resources and the use of the data in the planning of development in urban, rural and regional areas.
6. The planning, development and redevelopment of property, whether urban or rural and whether land or buildings.
7. The assessment of value and the management of property, whether urban or rural and whether land or buildings.
8. The planning, measurement and management of construction works, including the estimation of costs.
9. The production of plans, maps, files, charts and reports.

In the application of the foregoing activities surveyors take into account the relevant legal, economic, environmental and social aspects affecting each project.

FIG MEMBERS AND THEIR COMMISSION DELEGATES

The purpose of these guidelines is to help ensure that the full benefits of FIG membership are passed down to all the individual members of associations or other organisations that are members of the Federation.

To ensure that these individual members are kept fully informed of and input where necessary to the work of FIG and its commissions, FIG recommends that

- FIG members should support, or encourage others to support, the attendance of national commission delegates at annual FIG working weeks (including annual commission delegate meetings and technical symposia) and other symposia organised by the commissions
- FIG members and their national commission delegates should consider establishing networks within their countries to communicate information and obtain feedback
- national commission delegates should be actively involved in commission activities, including responding to questionnaires or correspondence and identifying topics and authors of papers for commission symposia and FIG congresses
- FIG members should seek and encourage funding support to enable national commission delegates to attend FIG activities, including commission meetings

National commission delegates should write at least one annual report for publication in a local newsletter or technical journal or for dissemination by some other means to individual members of their association or organisation.

International Federation of Surveyors

Application form for Membership as a Member Association

1. Name of association **SOCIETY OF ENGINEERS -UAE**
2. Address **46 St. Al Wuheida Road, Al Mamzar Deira Dubai – United Arab Emirates**
3. Telephone no **00971 239 9555**
4. Fax no **00971 239 9444**
5. e-mail address **dxbsoe@emirates.net.ae**

Home page address **www.soenuae.ae**

Logo (please attach a high resolution logo of the association as .jpg file or add the link): **.see attached SOE-UAE logo**

6. Name of President **Eng. Dawoud A. Al Hajri**
7. Administration

Is the above address the address of the permanent office of the association? If so, please state the name of the chief executive and the number of any other permanent staff members.

President	Eng. Dawoud A. Al Hajri
Vice President	Eng. Abdulla Y. Al Ali
Secretary General	Eng. Mohammed M. Mashroum
Treasurer	Eng. Hessa Al Harami
Board of Directors	Dr. Khalid M. Al Zahed
	Eng. Nasser Hamad Abushahab
	Eng. Sulaiman Al Hajri
	Eng. Rayed Al Arashi
	Eng. Salma S. Al Maamari
General Manager	Eng. Tareq Bin Deemas

8. Date of formation of association. **April 03, 1979**

9. Objectives and ethics

Please summarise on a separate sheet the objectives of the association and state whether it enforces disciplinary procedures; and enclose a copy of its constitution and rules (including, where applicable, its code of conduct).

See attached file for SOE objectives and Code of Ethics

of your association. If not, please state who else can acquire the title to perform any of the activities.

List of Activities in which the Society undertaken to perform by statute is

- 1- Training & Development Centre
- 2- Arbitration Centre and Engineering Expert Evaluation Centre
- 3- Employment Centre
- 4- Testing and Accreditation Centre

14. Employment

% of qualified members

- Self-employed and employed in private practice.
- Teaching.
- Employed by government.
- Employed in the commercial or other sectors. ...

Record of related employment status is not available for now.

15. Subscriptions

Please state the annual subscription payable by each grade of membership

..... AED435 for all memberships.

16. Services to members

Does the association publish a journal (if so, please state title and frequency)

... Society of Engineers publish a journal on Quarterly bases under the name of world of Engineering. (please find attached)

Please list on a separate sheet any other services that the association provides for its members.

Please list the below list of activities

- 1- prepare bid documentation and present the bid in all engineering conferences sectors
- 2- Organize Engineering events within UAE, GCC And internationally to host all Engineering conferences
- 3- Assist governmental sectors by developing policies and procedures in engineering sectors
- 4- Through Employment centre assist all un-employed engineers to search for new job, career by communicating with all governmental & private sectors.

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جمعية المهندسين - الإمارات العربية المتحدة
SOCIETY of ENGINEERS - UAE



OBJECTIVES OF THE SOCIETY OF ENGINEERS

- Contribution to the development and progress of national industry, engineering, construction, agriculture, and economy in cooperation of the government entities.
- Regulation of the professional practices, ethics, standards and specifications and developing the skills and qualifications of all engineers in the UAE.
- Development of scientific and technical collaboration and alliances among the engineers in the UAE and their colleagues in GCC and other Arab and foreign countries.
- Participation and encouragement of engineers for the distribution of theoretical & practical studies and researches in the field of engineering by publishing, holding lectures and seminars, organizing field trips, and exchange of information between the Society of Engineers - UAE and its counterparts in other countries.
- Provision of Consultancy Engineering Services, if requested to do so.
- Encouragement of professional technical training in all engineering fields to develop the skills of all engineers in the UAE.
- Contribution to the arabization of the engineering expression and the transmission of Arab Engineering Standards in cooperation with the governmental institutions in the UAE as well as the authorities and associations in other Arab countries.

Dubai:
dxbsoe@emirates.net.ae
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www.soeuae.com





United Arab Emirates

Date: 2nd January, 2017

جمعية المهندسين - الإمارات العربية المتحدة
SOCIETY of ENGINEERS - UAE



Ref/SOE/D/ /2017

International Federation of Surveyors, FIG
Kalvebod Brygge 31-33
DK-1780 Copenhagen V DENMARK
FIG@fig.net
+ 45 3886 1081
+ 45 3886 0252

Dear Sir/Madam,

Subject: Membership IN Fig As- Member Association IN United Arab Emirate

Our warmest greetings from Society of Engineers - UAE, we would like to inform you about our great interest to attain membership from your elite organization and officially become a member of the International federation of Surveyors. We are semi government and non-profit organization serving the engineering sector in the UAE for 38 years. We are looking forward to this international acknowledgment in an effort to provide our members with excellent services, international recognition and help them develop their professional qualification and expertise with international standards.

Due to recent demands in growing number of surveyors and the desire to establish a professional collaboration with you, we would like to attain membership in your organization which will be managed under the umbrella of the Society of Engineers - UAE. We will truly appreciate if you would further provide us more information on how to become a member association of your Organization and officially start activities and events that will provide awareness to all engineers and surveyors working in our country on the significance of FIG.

It will be such an honour to be a part of FIG. We would also like to give you brief information about our association. Society of Engineers - UAE was formally organized on April 03, 1979 by the Ministry of Labour and Social Affairs - Ministerial Decree No. 33 1979 to facilitate the increasing demands in professional expertise and accreditation of the engineers in the UAE. The society is a semi government sector and a non-profit organization who strives to provide great services to its 44,850 members.

Our Vision: "National pioneering to engineers, Gulf extension, international contact and an engineering reference for the public and private sectors"

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جمعية المهندسين - الإمارات العربية المتحدة
SOCIETY of ENGINEERS - UAE



Our Mission: "Upgrading and activating the engineering role to build an architectural, industrial and commercial renaissance"

Society of Engineers - UAE celebrates its 38th years of exceptional service to the public. We have accomplished outstanding achievements in accrediting the engineering certifications, regulating professional practices, standards and specifications and developing the skills and qualifications of all engineers in the UAE by our International accreditation committee.

Society of Engineers - UAE joined the Arab Engineers Federation in 1984, World Federation Engineering Organization in 1985 and Gulf Engineering Union in 1986. We are recognized by the ISO - 9001:2008 as the first engineering society acquiring the ISO certification in 2004.

Society of Engineers - UAE's Centers

- ❖ Training & Development Center
- ❖ Arbitration Center
- ❖ Employment Center
- ❖ International Test Centre

Society of Engineers' International Accreditations:

- ❖ Pearson VUE Authorized Test Center (GMAT, CIAetc.)
- ❖ ICDL (International Computer Driving License) Authorized Training Center
- ❖ Adobe - Authorized Training Center
- ❖ PMI(Project Management Institute) Registered Education Provider
- ❖ CBP (Certified Business Professional)
- ❖ AACE (Association for the Advancement of the Cost Engineers)- Planning & Scheduling Professional (PSP)
- ❖ TOEFL (Test of English as a Foreign Language)
- ❖ ILM (Institute of Leadership and Management)
- ❖ NSC (National Safety Council)
- ❖ IELTS (British Council)

Your response and guidance will be truly appreciated as we are very keen to discuss any possible collaboration that we could have that will benefit both our associations. We are looking forward for your kind response.

Best regards,

Eng. Dawoud Al Hajri

Dubai President
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International Federation of Surveyors
Fédération Internationale des Géomètres
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Logo (please attach a high resolution logo of the association as .jpg file or add the link): **.see attached SOE-UAE logo**

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Vice President	Eng. Abdulla Y. Al Ali
Secretary General	Eng. Mohammed M. Mashroum
Treasurer	Eng. Hessa Al Harami
Board of Directors	Dr. Khalid M. Al Zahed
	Eng. Nasser Hamad Abushahab
	Eng. Sulaiman Al Hajri
	Eng. Rayed Al Arashi
	Eng. Salma S. Al Maamari
General Manager	Eng. Tareq Bin Deemas

8. Date of formation of association. **April 03, 1979**

9. Objectives and ethics

Please summarise on a separate sheet the objectives of the association and state whether it enforces disciplinary procedures; and enclose a copy of its constitution and rules (including, where applicable, its code of conduct).

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Record of related employment status is not available for now.

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Please state the annual subscription payable by each grade of membership

..... AED435 for all memberships.

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جمعية المهندسين - الإمارات العربية المتحدة
SOCIETY of ENGINEERS - UAE



ROUTES OF ENTRY TO MEMBERSHIP

The title held by qualified members of the association

- **Need to specify all different Engineering Sectors in which the society hold's within.**

The level of academic qualification required to obtain the title

- **Need to hold Bachelor degree in Engineering.**

Whether academic training programmes to this level are available in your country (if not, please state how and where members obtain their academic training)

- **Training is available within UAE on governmental and no profitable organizations such as Society of Engineers to educate engineers on all new engineering concepts, and to have continuous education in developing their knowledge in better performance.**

What approved professional experience is required on completion of academic training and prior to acquisition of the title

- **(Certificate will be issues to trainee once completed the section in addition miles to His individual PDU (Personal Development Units) and through a testing system on some course required accreditation.**

What the requirements are for continuing professional development and whether this is mandatory or voluntary

- **Society of Engineers has developed (Personal Development Units system for continuous professionals whom want to develop them self's through attending development program. To some of professional is mandatory to continuous develop through obtaining a systematic training sections for his career as for others is a voluntary available courses and development training section to cope with current and latest in the market as we live in a raped development environment.**

if the association also admits technician or sub-professional members and, if so, the qualifications required for entry to this grade of membership

- **Society of Engineers –UAE admits technician and sub-professional members for the recording purpose as it will be stated in his membership technician.**

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الإمارات العربية المتحدة
وزارة الشؤون الاجتماعية

قانون اتحادي رقم (2) لسنة 2008
في شأن الجمعيات والمؤسسات الأهلية ذات النفع العام

- نحن خليفة بن زايد آل نهيان رئيس دولة الإمارات العربية المتحدة
- بعد الإطلاع على الدستور
 - وعلى القانون الاتحادي رقم (1) لسنة 1972 بشأن اختصاصات الوزارات وصلاحيات الوزراء، والقوانين المعدلة له.
 - وعلى القانون الاتحادي رقم (12) لسنة 1972 في شأن تنظيم الأندية والجمعيات العاملة في ميدان رعاية الشباب.
 - وعلى القانون الاتحادي رقم (6) لسنة 1974 في شأن الجمعيات ذات النفع العام، والقوانين المعدلة له.
 - وعلى القانون الاتحادي رقم (25) لسنة 1999 في شأن الهيئة العامة لرعاية الشباب والرياضة.
 - وبناء على ما عرضته وزيرة الشؤون الاجتماعية، وموافقة مجلس الوزراء والمجلس الوطني الاتحادي، وتصديق المجلس الأعلى للاتحاد.
- أصدرنا القانون الآتي :

باب تمهدي
تعريف
المادة (1)

في تطبيق أحكام هذا القانون يقصد بالكلمات والعبارات التالية المعاني المبينة قرين كل منها ما لم يقض سياق النص بغير ذلك.

الدولة	:	دولة الإمارات العربية المتحدة
الوزارة	:	وزارة الشؤون الاجتماعية
الوزير	:	وزير الشؤون الاجتماعية
الجمعية	:	الجمعية ذات النفع العام
الاتحاد	:	تجمع يضم أكثر من جمعية ذات نفع عام
المجلس	:	مجلس إدارة الجمعية أو الاتحاد
العضو	:	عضو الجمعية
المؤسسة	:	كل مؤسسة تتكون من مؤسس واحد أو مجموعة من المؤسسين تنشأ لمدة محددة أو غير محددة وذلك بتخصيص مال لتحقيق غرض من الأغراض الواردة في المادة (2) من هذا القانون دون أن تهدف إلى الربح المادي.

الإمارات العربية المتحدة
وزارة الشؤون الإجتماعية

1. يجوز للجمعية أن تمثل في المشاركات خارج الدولة كالمؤتمرات أو الندوات أو الاجتماعات أو اللقاءات بعد موافقة الوزارة، وعلى الوزارة أن تقوم بالرد على طلب الموافقة خلال أسبوعين من تقديم الطلب.
وتعتبر أيام سفر ممثلي الجمعية لتلك المشاركات أيام عمل رسمية بالنسبة لموظفي الحكومة والمؤسسات والهيئات التابعة لها بشرط موافقة الجهة الإدارية المعنية بذلك.
2. يجوز للجمعية أن تنتسب أو تشترك أو تنضم إلى أية جمعية أو هيئة مقرها خارج الدولة أو أن تتعامل معها أو أن تمارس أية أنشطة أو أن تنفذ مشاريع خارج الدولة بعد الحصول على ترخيص مسبق من الوزارة.
وعلى الوزارة أن تقوم بالرد على طلب الترخيص خلال أسبوعين من تاريخ تقديم الطلب.

المادة (18)

يجوز للجمعية عقد مؤتمرات أو ندوات أو لقاءات أو فعاليات، يشارك فيها أشخاص من خارج الدولة بعد موافقة الوزارة.
وعلى الوزارة أن تقوم بالرد على طلب الموافقة خلال أسبوعين من تاريخ تقديم الطلب.

المادة (19)

لوزارة حق الإشراف على برامج الجمعية ومشروعاتها في نطاق أغراضها المحددة في نظامها الأساسي ولها أن تنظم دورات تدريبية وأن تقدم المشورة الفنية ومختلف أوجه الرعاية بما يرفع من مستوى الخدمات ويحقق الكفاءة في الأداء.

المادة (20)

تخضع الجمعية لرقابة الوزارة من النواحي المالية وذلك للتثبت من أوجه الإنفاق وسلامة توجيه مواردها المالية والعينية للأغراض والمشروعات التي تقوم بها الجمعية طبقاً لنظامها الأساسي .

وللوزارة في سبيل ذلك الإطلاع على دفاتر الجمعية وسجلاتها ومستنداتها.

المادة (21)

صفحة 6 من 16

الإمارات العربية المتحدة
وزارة الشؤون الاجتماعية

- الاندماج فيها بإجراءات مماثلة ويجب أن يتضمن قرار الموافقة على الاندماج إجراءات التنفيذ وآثاره.
5. يبطل أي قرار من قرارات مجلس الإدارة.
 6. تعديل النظام الأساسي للجمعية بعد موافقة الوزارة، والتي عليها الرد على طلب التعديل خلال ثلاثين يوماً من تقديمه.
 7. تصفية الجمعية تصفية اختيارية.
 8. أية أمور عاجلة ومؤثرة على سير العمل بالجمعية تستوجب دعوة الجمعية العمومية.

المادة (33)

يعتبر اجتماع الجمعية العمومية غير العادية صحيحاً بحضور ثلاثة أرباع الأعضاء العاملين فإذا لم يتوافر النصاب وجب تأجيل عقد الاجتماع مدة لا تقل عن (15) يوماً خمسة عشر يوماً ولا تزيد على (30) ثلاثين يوماً من موعد الاجتماع الأول وبعد الاجتماع الثاني صحيحاً بحضور نصف عدد الأعضاء العاملين فإذا لم يكتمل النصاب وجبت الدعوة لاجتماع ثالث خلال مدة مماثلة لموعد الاجتماع الثاني ويكون الاجتماع الثالث صحيحاً بحضور أي عدد من الأعضاء العاملين.

وتصدر قرارات الجمعية العمومية في هذه الحالات بأغلبية ثلاثة أرباع عدد الأعضاء العاملين من الحاضرين.

المادة (34)

لا يجوز للجمعية العمومية غير العادية أن تنظر في مسائل غير مدرجة في جدول الأعمال.

المادة (35)

يجوز لعضو الجمعية أن ينيب عنه بتفويض كتابي عضواً آخر يمثله في حضور الجمعية العمومية وفقاً لما يرد في النظام الأساسي للجمعية من أحكام في هذا الشأن، ولا يجوز أن ينيب العضو عن أكثر من عضو واحد، ويتعين أن يكون التفويض معتمداً من مجلس إدارة الجمعية.

الباب الثالث موارد الجمعية المادة (36)

تتكون الموارد المالية للجمعية من:
1. اشتراكات الأعضاء

الإمارات العربية المتحدة
وزارة الشؤون الإجتماعية

المادة (46)

تسري على المؤسسات الأهلية فيما لم يرد بشأنه نص خاص في هذا الباب الأحكام المقررة في هذا القانون ولائحته التنفيذية بالقدر الذي يناسب طبيعتها.

الباب الخامس
التصفية والدمج
المادة (47)

1. يجوز للوزير إصدار قرار بحل وتصفية الجمعية، بناء على اقتراح من لجنة تشكل بقرار منه برئاسة وكيل الوزارة وعضوية أحد كبار موظفيها وممثل عن وزارة العدل يختاره وزير العدل وعضوين من أعضاء الجمعيات ذات النفع العام من غير أعضاء الجمعية محل النظر في حلها وتصفيتها يختارهما الوزير في إحدى الحالات الآتية :
 - أ. إذا خالفت حكم المادة (11) من هذا القانون.
 - ب. إذا نقص عدد أعضائها القانون لمبين في البند (1) من المادة (3) من هذا القانون .
 - ج. إذا تبين أن أعمالها أصبحت غير محققة على وجه جدي للأغراض التي أنشئت من أجلها أو أنها عاجزة عن تحقيق هذه الأغراض.
 - د. إذا تصرفت في أموالها في غير الأوجه المحددة لها.
 - هـ. إذا أصبحت عاجزة عن الوفاء بتعهداتها المالية.
 - و. إذا رفضت التفتيش عليها أو قدمت بيانات غير صحيحة بقصد التضليل.
 - ز. إذا ارتكبت مخالفة جسيمة لنظامها الأساسي أو لأحكام هذا القانون.
 - ح. إذا تعذر انعقاد جمعيتها العمومية خلال سنتين متتاليتين.
2. ينشر قرار الحل والتصفية في الجريدة الرسمية، ولخمس من العام لجمعية مجتمعين التظلم من قرار الحل والتصفية خلال ثلاثين يوماً من تاريخ نشره، ويجب البت في التظلم بقرار مسبب خلال ثلاثين يوماً من تاريخ تقديمه ويخطر به المتظلم وفقاً لما تحدده اللائحة التنفيذية.
3. يجوز للوزير بدلا من حل الجمعية وتصفيتها وتحقيقا للصالح العام :
 - أ. أن يعين بقرار مسبب مجلس إدارة مؤقت من بين أعضاء الجمعية العاملين يتولى اختصاصات مجلس الإدارة المنتخب، وذلك لمدة (6) ستة أشهر قابلة للتجديد لمدة أخرى مماثلة، وعلى أعضاء مجلس إدارة الجمعية والموظفين القائمين بالعمل فيها أن يبادروا إلى تسليم المجلس المؤقت بمجرد تشكيله جميع أموال الجمعية وسجلاتها ودفاترها ومستنداتها .

الإمارات العربية المتحدة
وزارة الشؤون الإجتماعية

الشبابية والرياضية المعنية بشؤون الشباب اجتماعياً وثقافياً ورياضياً في الدولة والتي ينظمها القانون رقم (25) لسنة 1999 في شأن الهيئة العامة لرعاية الشباب والرياضة.

المادة (53)

- تتمتع الجمعية بالإعفاء من الالتزامات المالية الآتية :
1. الضرائب والرسوم الجمركية بالنسبة إلى الأدوات والتجهيزات المستوردة لحسابها اللازمة لممارسة نشاطها ويحظر التصرف في هذه الأدوات والتجهيزات إلى جهة أخرى لا تتمتع بإعفاء من الضرائب والرسوم الجمركية قبل مضي سنة من تاريخ استيرادها ما لم تسدد عنها الضرائب والرسوم المستحقة.
 2. الضرائب والرسوم على الأنشطة المختلفة التي تقيمها.
 3. مقابل استهلاك الماء والكهرباء والغاز الطبيعي الذي تتجه الجهات الحكومية.

المادة (54)

لا يجوز لأية جماعة أو جهة ممارسة أي نشاط من أنشطة الجمعيات إلا وفقاً لأحكام هذا القانون وبعد إتمام إجراءات إشهارها، وفي حال المخالفة، تصدر الوزارة قراراً بإيقاف هذا النشاط أو إغلاق المقار المخالفة لذلك وعلى السلطات المختصة بالدولة تنفيذ هذا القرار بالطريق الجبري عند الاقتضاء ولا يخل ذلك بالمسئولية المدنية والجزائية.

المادة (55)

الوزارة هي الجهة الوحيدة المنوط بها إشهار الجمعيات ذات النفع العام أو الترخيص لها بممارسة نشاطها وعلى جميع الجمعيات المشهورة أو المرخص لها بموجب أنظمة خاصة أو أوامر محلية تعديل نظمها والتقدم بطلب إشهارها طبقاً لأحكام هذا القانون خلال (6) ستة أشهر من تاريخ العمل به وإلا اعتبرت منحلة .

وتقوم الوزارة بتصفية أموالها وتعيين الجهة التي تؤول إليها تلك الأموال .

المادة (56)

يتعين أن يكون اعتراض الوزارة أو رفضها للطلبات الواردة إليها بناء على أحكام هذا القانون بخطاب مسجل بعلم الوصول يصل إلى مقدم الطلب خلال المدة المحددة في القانون .

المادة (57)

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النظام الأساسي

الباب الأول

اسم الجمعية ومقرها ولغتها وأهدافها

المادة الأولى : اسم الجمعية ومقرها :

تأسست في دولة الإمارات العربية المتحدة جمعية للمهندسين تسمى ((جمعية المهندسين بدولة الإمارات العربية المتحدة)) يكون مقرها الرئيسي في مدينة ((دبي)) ويجوز لها أن تفتح فروعاً في مدن الدولة المختلفة تحمل نفس التسمية وترتبط بالمقر الرئيسي للجمعية إدارياً ومالياً ومهنياً.

المادة الثانية : لغة الجمعية :

اللغة العربية هي اللغة الرسمية للجمعية ويجوز للمحاضرين والباحثين والأعضاء باستعمال اللغات الأجنبية بتصريح من مجلس الإدارة.

المادة الثالثة : أهداف الجمعية :

- المساهمة في النهضة الصناعية والعمرانية والزراعية في البلاد بالتعاون مع الجهات المختصة.
- تنظيم قواعد مزاوله المهنة ورفع مستواها بالتعاون مع الجهات المختصة بالدولة.
- العمل على توطيد العلاقات وتوثيق التعاون العلمي والفني بين المهندسين في دولة الإمارات وزملائهم في الدول العربية والأجنبية.
- المساهمة في الأبحاث الهندسية العلمية والعملية وتشجيعها عن طريق النشر والمحاضرات والندوات والرحلات العلمية ، والقيام بتبادل المعلومات بين الجمعية والجمعيات الهندسية في الدول الأخرى.
- إيداء المشورة في النواحي الهندسية إذا طلب منها ذلك.
- تشجيع التزريب المهني الهندسي في الدولة بمختلف الوسائل المتيسرة.
- المساهمة في تعريب المصطلحات الهندسية ووضع مواصفات هندسية عربية بالإشتراك مع المؤسسات الحكومية في دولة الإمارات ومع الهيئات والجمعيات في البلاد العربية الأخرى.

الباب الثاني

عضوية الجمعية

المادة الرابعة :

تتكون الجمعية من العضويات التالية :

- الأعضاء الفخريون.
- الأعضاء العاملون.
- الأعضاء المنتسبون.
- المسجلون.
- الطبية.



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- أ. الأعضاء الفخريون:
يمنح مجلس إدارة الجمعية لقب عضو فخري للأشخاص الذين تنتفع منهم الجمعية أدبيا أو ماليا أو تكون لهم ميزة في العلوم والفنون المرتبطة بالمهنة الهندسية ولو كانوا غير ممارسين لها.
- ب. الأعضاء العاملون:
يشترط في العضو العامل أن يكون:
1. من مواطني دولة الإمارات العربية المتحدة.
2. غير محكوم عليه بمادة جنائية أو جنحة مخلة بالأمانة وبشرف المهنة ما لم يكن قد رد إليه اعتباره.
3. حاملا شهادة بكالوريوس أو ما يعادلها أو أعلى في الهندسة أو العمارة من جامعة أو معهد معترف به ويخوله هذا المؤهل أن يحمل لقب مهندس في القطر الذي صدر منه ، على أن لا يقل هذا المؤهل عن المستوى الذي تقره الجمعية.

- ج. الأعضاء المنتسبون:
يشترط في العضو المنتسب أن يكون مقيما في دولة الإمارات العربية وأن تنطبق عليه شروط الفقرتين (2) و (3) في بند (ب) من المادة الرابعة.

- د. المسجلون :
ويشترط في العضو المسجل أن يكون قد حصل على شهادة من معهد مهني هندسي وأن يكون قد أتم فترة تدريب مهني بعد حصوله على تلك الشهادة بموجب برنامج معين وتحت إشراف هيئة في معهد أو مؤسسة وكان كل من الشهادة والتدريب من حيث المستوى والمدة كافيان في رأي مجلس إدارة الجمعية لقبوله كمسجل في الجمعية وأن تنطبق عليه الفقرة (2) من البند (ب) من المادة الرابعة.

- هـ. الطلبة :
ويشترط لمنح عضوية الطلبة أن يكون الشخص من منتسبي كلية الهندسة بجامعة الإمارات أو من المواطنين المنتسبين إلى إحدى كليات الهندسة في الجامعات العربية أو الأجنبية المعترف بها.

المادة الخامسة:
تقدم طلبات الانضمام للجمعية إلى أمين السر وذلك بموجب استمارة خاصة معدة لهذا الغرض مبين فيها أسم الشخص وعنوانه ومؤهلاته العلمية ويرفق معها نسخ مصدقة حسب الأصول من الشهادات العلمية وصورتين شخصيتين وصورة جواز السفر وكتاب تأييد من جهة العمل أن وجد.
ويستثنى الطلبة من تقديم هذه الوثائق ويتم الاكتفاء بكتاب رسمي من الجامعة وصورة جواز السفر.

المادة السادسة :
يقوم أمين السر بعرض طلبات الانضمام للجمعية المكتملة الشروط على مجلس الإدارة مع توصية اللجنة الفنية وذلك في أول جلسة دورية بعد تاريخ تقديم الطلب ولا يقبل أي طلب إلا إذا وافق عليه المجلس التنفيذي للجمعية وذلك في أول جلسة دورية بعد تاريخ تقديم الطلب وذلك في حالة رفض الطلب تذكر الأسباب ولا يحق لصاحبه التقدم بطلب جديد إلا بعد مضي ستة أشهر من تاريخ تقديم الطلب الأول.



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الباب السابع

حل الجمعية وتعديل النظام الأساسي

المادة الثامنة والثلاثين :

لا يجوز إدخال أي تعديل على هذا النظام إلا بموجب قرار من الجمعية العمومية غير العادية يصدر بناءً على اقتراح من مجلس الإدارة أو اقتراح من ثلث الأعضاء العاملين على أن يكون النصاب قانونياً حسب المادة (31) من هذا النظام وتتم الموافقة على التعديل من ثلثي الأعضاء العاملين الحاضرين في الجلسة ... ولا يعمل بالتعديل إلا بعد التصديق عليه من قبل وزارة العمل والشؤون الاجتماعية.

المادة التاسعة والثلاثين :

يجوز حل الجمعية بقرار من جمعية عمومية غير عادية يكون النصاب فيها قانونياً حسب المادة (31) من هذا النظام وبموافقة ثلثي الأعضاء العاملين الحاضرين على أن يتضمن قرار الحل الجهة التي تؤول إليها الأموال المنقولة وغير المنقولة ويشترط أن تكون هذه الجهة من المؤسسات الخيرية الوطنية بالدولة ... كما لا يجوز التصرف في الأموال المنقولة وغير المنقولة بعد الحل إلا بإشراف وموافقة وزارة العمل والشؤون الاجتماعية.

المادة الأربعون :

تخطر وزارة العمل والشؤون الاجتماعية بموعد ومكان انعقاد الجمعية العمومية قبل انعقادها بخمسة عشر يوماً على الأقل.



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الملائحة الداخلية

الباب الأول

الاجتماعات

المادة الأولى : الاجتماع السنوي للجمعية العمومية :

1. تتكون الجمعية العمومية من جميع الأعضاء المسددين لأشتر اكاتهم ولجميع هؤلاء الأعضاء الحق في الحضور إلى اجتماعاتها والاشتراك في مناقشاتها ولأعضاء العاملين دون سواهم حق التصويت على قرارات الجمعية.
2. يقوم مجلس الإدارة بدعوة الجمعية العمومية لاجتماع سنوي خلال الثلاثة أشهر الأولى من كل سنة عن طريق الإعلان عن هذا الاجتماع في وسائل الإعلام أو إرسال كتاب مسجل لكل عضو عامل أو التوقيع في دفتر خاص وذلك قبل موعد الانعقاد بأسبوعين على الأقل على أن يبين في الدعوة زمان ومكان الاجتماع وجدول الأعمال.
3. يرأس اجتماعات الجمعية العمومية الرئيس أو نائب الرئيس وفي حالة غيابهما يرأس الاجتماع أمين السر.
4. يعتبر اجتماع الجمعية العمومية قانونياً بحضور أكثر من نصف عدد الأعضاء العاملين وفي حالة عدم اكتمال النصاب القانوني في الموعد المقرر للاجتماع يجوز للرئيس أو من ينوب عنه تأجيل الاجتماع بعد مضي نصف ساعة عن الموعد المقرر على أن يعقد الاجتماع الثاني خلال أسبوعين ويكون قانونياً بحضور ربع الأعضاء العاملين على أن يتم الإعلان عن تأجيل الاجتماع في وسائل الإعلان المحلية.
5. بعد أن يقوم رئيس الجمعية (أو من ينوب عنه) بافتتاح الجلسة يعرض أمين السر مشروع جدول الأعمال على الجمعية العمومية لإقراره أو تعديله بناءً على اقتراح من أحد الأعضاء مثني عليه من قبل عضو آخر وعندئذ لا تحصل مناقشة في مسألة لم تكن واردة في جدول الأعمال بعد إقراره بشكل نهائي.
6. يقوم أمين السر بتقديم التقرير السنوي عن أعمال الجمعية ومنجزاتها خلال العام المنصرم ويطرح هذا التقرير أمام الجمعية العمومية لمناقشته وإقراره بشكل نهائي ، ثم يقوم أمين الصندوق بتقديم تقرير شامل بالحسابات السنوية للجمعية والمعتمد من مكتب تدقيق حسابات قانوني ويطرح هذا التقرير أمام الجمعية العمومية لمناقشته وإقراره بشكله النهائي ثم يقوم بعرض الميزانية التقديرية للعام الجديد وتتم مناقشتها وإقرارها من قبل الجمعية العمومية.
7. ينظم جدول حضور أعضاء الجمعية العمومية تسجل فيه أسماء الأعضاء الحاضرين بموجب تسلسل رقمي يوقع عليه من قبل كل من حضر الجلسة.
8. يتم بإشراف أمين السر تسجيل محاضر اجتماعات الجمعية العمومية في سجل خاص بعد اعتمادها ويوقع على هذه المحاضر الرئيس وأمين السر.
9. تقوم الجمعية العمومية بمناقشة المواد المدرجة في جدول الأعمال بعد إقرارها من قبل الجمعية العمومية.
10. إجراء الانتخابات حسب مواعيدها.



جمعية المهندسين الإمارات العربية المتحدة
SOCIETY of ENGINEERS / UAE



المادة التاسعة عشرة :

تتقاضى الجمعية نسبة 10% من أتعاب أو مكافآت أعضائها الذين يتم ترشيحهم من قبلها للقيام بأعمال تتعلق بالمسابقات الهندسية أو قضايا التحكيم أو أي أعمال أخرى ضمن اختصاص الجمعية.

المادة العشرون :

لا يجوز إدخال أي تعديل على هذه اللائحة إلا بموجب قرار من الجمعية العمومية غير العادية يصدر بناء على اقتراح من مجلس الإدارة أو اقتراح من ثلث الأعضاء العاملين ويتم الموافقة عليه بأغلبية الأعضاء العاملين الحاضرين في الجلسة .

المادة الحادية والعشرون :

صدرت هذه اللائحة بتاريخ 1991/3/28



14



International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure

Membership Application for a Member Association

General

Full membership of the International Federation of Surveyors (FIG) is open to a national association representing one or more of the disciplines of surveying (see the following FIG definition of a surveyor) and whose members

- possess relevant academic qualifications (which should normally be equivalent to at least UNESCO International Standard Classification of Education (ISCED) level 5 degrees) plus approved professional experience; and
- who provide professional services in accordance with ethical standards.

Associations which include technician grades of membership are also eligible for membership of the Federation.

A group of surveyors or surveying organisation, comprised of individuals who practise the profession of surveying, which does not fulfil the criteria for membership as a member association can be admitted to join the Federation as an affiliate member. An affiliate may be admitted to membership where the discipline or disciplines it represents are not already represented within the Federation by a member association from the same country. The admission of an affiliate should normally be a step towards the development of an association which can eventually become a member association.

Each category of membership provides opportunities for establishing contact with the international surveying community and thereby assisting with the development of indigenous academic and professional training programmes, including CPD facilities, and the development of technical and professional standards.

Only member associations are entitled to vote at FIG's annual administrative meetings. An affiliate and other members may nominate a representative to attend as an observer. All FIG members receive copies of FIG publications, monthly e-Newsletters and the Annual Review; and are entitled to nominate one delegate to each of FIG's ten technical commissions. Participation to the Commission work is one of the most important benefits of membership of FIG. However these benefits only come about if those nominated as delegates participate in the work of the commissions and publicise the results within their own countries; and FIG has therefore published guidelines for its members and for their national commission delegates.

As from 1 January 2016 the annual fee payable by a member association is 4.48 € per member of the association for a calendar year. Minimum fee is 20 members or 50 € per member association and maximum fee 5,500 members (24,640 €). Member associations from the poorest countries (countries listed by the World Bank as low-income economies or lower-middle-income economies) shall pay 2.24 € per member up to a maximum of 5,500 members in 2016.

An association wishing to apply for full membership should complete the relevant application form and return it to the Council. Applications are assessed first by the Council, which decides whether to recommend them for approval by the General Assembly.

In the case of an application received from an association in a country which already has one or more member associations, these associations shall be informed of the application and their comments sought.

FIG DEFINITION OF SURVEYOR

A surveyor is a professional person with the academic qualifications and technical expertise to practise the science of measurement; to assemble and assess land and geographic related information; to use that information for the purpose of planning and implementing the efficient administration of the land, the sea and structures thereon; and to instigate the advancement and development of such practices.

Practice of the surveyor's profession may involve one or more of the following activities which may occur either on, above or below the surface of the land or the sea and may be carried out in association with other professionals.

1. The determination of the size and shape of the earth and the measurement of all data needed to define the size, position, shape and contour of any part of the earth.
2. The positioning of objects in space and the positioning and monitoring of physical features, structures and engineering works on, above or below the surface of the earth.
3. The determination of the position of the boundaries of public or private land, including national and international boundaries, and the registration of those lands with the appropriate authorities.
4. The design, establishment and administration of land and geographic information systems and the collection, storage, analysis and management of data within those systems.
5. The study of the natural and social environment, the measurement of land and marine resources and the use of the data in the planning of development in urban, rural and regional areas.
6. The planning, development and redevelopment of property, whether urban or rural and whether land or buildings.
7. The assessment of value and the management of property, whether urban or rural and whether land or buildings.
8. The planning, measurement and management of construction works, including the estimation of costs.
9. The production of plans, maps, files, charts and reports.

In the application of the foregoing activities surveyors take into account the relevant legal, economic, environmental and social aspects affecting each project.

FIG MEMBERS AND THEIR COMMISSION DELEGATES

The purpose of these guidelines is to help ensure that the full benefits of FIG membership are passed down to all the individual members of associations or other organisations that are members of the Federation.

To ensure that these individual members are kept fully informed of and input where necessary to the work of FIG and its commissions, FIG recommends that

- FIG members should support, or encourage others to support, the attendance of national commission delegates at annual FIG working weeks (including annual commission delegate meetings and technical symposia) and other symposia organised by the commissions
- FIG members and their national commission delegates should consider establishing networks within their countries to communicate information and obtain feedback
- national commission delegates should be actively involved in commission activities, including responding to questionnaires or correspondence and identifying topics and authors of papers for commission symposia and FIG congresses
- FIG members should seek and encourage funding support to enable national commission delegates to attend FIG activities, including commission meetings

National commission delegates should write at least one annual report for publication in a local newsletter or technical journal or for dissemination by some other means to individual members of their association or organisation.

International Federation of Surveyors

Application form for Membership as a Member Association

1. Name of association

in own language **INSTITUTION OF SURVEYORS OF UGANDA.**

2. Address. **P.O. BOX 2122 KAMPALA.**

3. Telephone no .+ **256 – 414 – 251256**

4. Fax no.

5. e-mail address. **isusecretariat@gmail.com**

6. Home page address. **www.surveyorsofuganda.org**

Logo (please attach a high resolution logo of the association as .jpg file or add the link):



http://surveyorsofuganda.org/

6. Name of President: **MR. MASEREJE RICHARD.**

7. Administration

Is the above address the address of the permanent office of the association? **YES** If so, please state the name of the chief executive and the number of any other permanent staff members

Ms. Rebecca Kasule – +256 772 524952

8. Date of formation of association **1968**

9. Objectives and ethics

Please summarise on a separate sheet the objectives of the association and state whether it enforces disciplinary procedures; and enclose a copy of its constitution and rules (including, where applicable, its code of conduct).

10. Routes of entry to membership

Please provide the following information on a separate sheet

- the title held by qualified members of the association -
- the level of academic qualification required to obtain the title
- whether academic training programmes to this level are available in your country (if not, please state how and where members obtain their academic training) –
- what approved professional experience is required on completion of academic training and prior to acquisition of the title
- what the requirements are for continuing professional development and whether this is mandatory or voluntary -
- if the association also admits technician or sub-professional members and, if so, the qualifications required for entry to this grade of membership

11. Members

No. of holders the title –

Specialisation	Title	No.
Land Surveying		
Qualified	Fellows of the Institution of Surveyors of Uganda	41
	Professional Members of the Institution of Surveyors of Uganda	71
Qualifying for registration	Professional Associate Members of the Institution of Surveyors of Uganda	21
Qualifying but still under mentorship	Graduate Members of the Institution of Surveyors of Uganda	206
Valuation Surveying		
Qualified	Fellows of the Institution of Surveyors of Uganda	34
	Professional Members of the Institution of Surveyors of Uganda	38
Qualifying for registration	Professional Associate Members of the Institution of Surveyors of Uganda	11

Qualifying but still under mentorship	Graduate Members of the Institution of Surveyors of Uganda	128
Quantity Surveying		
Qualified	Fellows of the Institution of Surveyors of Uganda	30
	Professional Members of the Institution of Surveyors of Uganda	22
Qualifying for registration	Professional Associate Members of the Institution of Surveyors of Uganda	33
Qualifying but still under mentorship	Graduate Members of the Institution of Surveyors of Uganda	105

No. of technician or sub-professional members - **65**

12. Specialisations

% of qualified members whose principal specialisation is

Specialisation	Number	Percentage
Land Surveying (positioning/measurement, engineering surveys, cadastre/land management, spatial planning/development)	112	47.5
Valuation Surveying (valuation/real estate management)	72	20.5
Quantity Surveying (construction cost management)	52	22.0
Total	236	

13. Statutory recognition

Is the association constituted by statute? **Company limited by guarantee (Not having a share capital) – Memorandum and Articles of Association**

Please list on a separate sheet those activities undertaken by your members which are regulated by statute and state whether any or all of these can be performed only by members of your association. If not, please state who else can acquire the title to perform any of the activities

14. Employment

% of qualified members

- self-employed and employed in private practice. 55%.
- teaching. 5%.
- employed by government. 30%.
- employed in the commercial or other sectors. 10%.

15. Subscriptions

Please state the annual subscription payable by each grade of membership

Grade of Membership	Annual subscription (Euros)
Honorary	93.5
Fellow	64.11
Professional Member	58.77
Professional Associate	48.09
Graduate	26.71
Technician	21.37
Student	2.67

16. Services to members

Does the association publish a journal (if so, please state title and frequency) - **THE SURVEYOR – ONCE A YEAR. HOWEVER, EACH CHAPTER PUBLISHES AN ONLINE E-NEWSLETTER QUARTERLY**

Please list on a separate sheet any other services that the association provides for its members.

- **Organize Continuous Professional Development programs**
- **Organize Workshops, seminars, meetings**
- **Trainings to student members**
- **Industrial training to upcoming Graduates**

As from 1 January 2016 the annual fee payable by a member association is 4.48 € per member of the association for a calendar year. Minimum fee is 20 members or 50 € per member association and maximum fee 5,500 members (24,640 €). Member associations from the poorest countries (countries listed by the World Bank as low-income economies or lower-middle-income economies) shall pay 2.24 € per member up to a maximum of 5,500 members in 2016

Please send or fax to FIG office: International Federation of Surveyors, Kalvebod Brygge 31-33, DK-1780 Copenhagen V, DENMARK, E-mail: FIG@fig.net, tel. + 45 3886 1081

Routes of entry to membership

1. **FELLOW MEMBERSHIP**
2. **PROFESSIONAL MEMBERSHIP**
3. **ASSOCIATE MEMBERSHIP**
4. **GRADUATE MEMBERSHIP**
5. **TECHNICIAN MEMBERSHIP**
6. **STUDENT MEMBERSHIP**
7. **HONORARY MEMBERSHIP**

Please provide the following information on a separate sheet

- the title held by qualified members of the association -
 1. **FELLOW OF THE INSTITUTION OF SURVEYORS OF UGANDA (FISU)**
 2. **PROFESSIONAL MEMBER OF THE INSTITUTION OF SURVEYORS OF UGANDA (MISU)**
 3. **PROFESSIONAL ASSOCIATE OF THE INSTITUTION OF SURVEYORS OF UGANDA (AISU)**
- the level of academic qualification required to obtain the title – **BACHELORS DEGREE IN A SURVEYING DISCIPLINE OR ITS EQUIVALENT**
- whether academic training programmes to this level are available in your country (if not, please state how and where members obtain their academic training) – **AVAILABLE AT**
 1. **MAKERERE UNIVERSITY KAMPALA**
 2. **KYAMBOGO UNIVERSITY KAMPALA**
 3. **NDEJJE UNIVERSITY KAMPALA**
- what approved professional experience is required on completion of academic training and prior to acquisition of the title – **A MINIMUM OF 2 YEARS UNDER THE MENTORSHIP OF A REGISTERED SURVEYOR**
- what the requirements are for continuing professional development and whether this is mandatory or voluntary - **MANDATORY 20 CPD HOURS PER YEAR**
- if the association also admits technician or sub-professional members and, if so, the qualifications required for entry to this grade of membership – **DIPLOMA IN A SURVEYING DISCIPLINE**

Please list on a separate sheet those activities undertaken by your members which are regulated by statute and state whether any or all of these can be performed only by members of your association. If not, please state who else can acquire the title to perform any of the activities

1. Cadastral Surveys for the preparation of title deeds and certificates of title - performed by Registered Land Surveyors only.
2. Valuation reports for compensation, land acquisition and other incidental purposes - performed by Registered Valuation Surveyors only
3. Quantity Surveying reports for construction - performed by Registered Quantity Surveyors only

Procedure for Registration of Surveyors in Uganda

The Surveyors Registration Act of 1974 provides for the establishment of the Surveyors Registration Board. The functions of the board shall be to regulate and control the profession of surveyors and the activities of registered surveyors within Uganda, and to advise the Government in relation to those functions. The Act sets out the following qualifications for registration

- Holder of a degree, diploma or certificate awarded by a university or school of surveying or photogrammetry recognized for the time being by the board and has had not less than three years' practical experience of such a nature as to satisfy the board as to his or her competence to practice as a professionally qualified surveyor
- A Fellow of the Institution of Surveyors of Uganda or a corporate member of any other institution of surveyors, by whatever name called, recognized for the time being by the board as furnishing sufficient guarantee of academic knowledge of, and practical experience in, surveying

As of 31st December, 2016, the number of Registered Surveyors is summarised below:

Specialisation	No.
Land Surveying	112
Valuation Surveyors	72
Quantity Surveyors	52
Total	236

THE REPUBLIC OF UGANDA

THE COMPANIES ACT, 2012

(OF THE LAWS OF UGANDA)

**COMPANY LIMITED BY GUARANTEE
(Not having a Share Capital)**

MEMORANDUM

AND

ARTICLES OF ASSOCIATION

The Institution of Surveyors of Uganda Ltd.

Incorporated this day of 2013

Drawn by:

**Masereje & Co. Advocates,
Plot 6 Colville Street,
Airline House 2nd Floor Suite 1
P.O 35370 Kampala,**

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PREAMBLE

WHEREAS in the interest of promoting, advancing and safeguarding the profession of surveying in Uganda, an Organization known as the Institution of Surveyors of Uganda be established.

AND WHEREAS it is desirable that the said Institution operates in accordance with the objectives and regulations set out in a Constitution and Bye-Laws concurred upon by the Members of the said Institution:

NOW THEREFORE we the Members of the Institution of Surveyors of Uganda do resolve and it is hereby resolved that this Memorandum and Articles of Association shall constitute the Constitution and Bye-Laws of the Institution next following be adopted and are hereby adopted on the **10th day of August 2002** as the Constitution and Bye-Laws of the Institution of Surveyors of Uganda to provide for the framework structure for professional surveying practice in Uganda, members' code of conduct, and any other regulations governing the operations of the said Institution; and for other matters connected herewith.



**MEMORUNDUM OF ASSOCIATION
Of
THE INSTITUTION OF SURVEYORS OF UGANDA (ISU) LTD**

1.0 THE OBJECT CLAUSE

1.1 THE INSTITUTION

The Name and Title of the Institution shall be “**The Institution of Surveyors of Uganda LTD** ” hereinafter called the Institution; its Postal address shall be post office Box 2122 Kampala, being the professional association that replaced “The Association of Surveyors of Uganda” referred to under S.15 of the Surveyors Registration Act Cap 275 shall continue its operations under the new name of the Institution of Surveyors of Uganda (ISU), until such a time that the Institution is established by an Act of Parliament”.

1.2 SECRETARIAT

The Secretariat of the Institution shall be situated in Kampala or at such other place as the Council shall decide.

The Secretariat shall compose the Administrative Headquarters for the Institution and a depository for records.

1.3 CHAPTERS OF THE INSTITUTION

There shall be formed Standing Committees, hereinafter called Chapters, to cater for specific surveying disciplines in the matter of forming and regulating specific professional practice and ethics, determining scales of professional charges and fees, and advising the council on general matters related to the particular disciplines.

These will be the following:

Land Surveying – the science and art of determining the dimensions and contours of the earth surface, using measurements of distance, direction and elevation; the setting out of lines and grades needed for the construction of buildings, roads, dams, etc; the science of delineating property boundaries and physical features of the earth; and survey of mineral properties; and the

computation of areas, volumes and other quantities; as well as the preparation of maps and plans.

Quantity Surveying – is a science of measuring, quantifying and pricing components in the built environment as well as ensuring proficiency in building and engineering construction management.

Land Management and Valuation Surveying – The art of managing and development of real estate and determining value of all various interests held within.

The Chairman for each Chapter shall be elected in the AGM and be a member of the Council.

1.4 BRANCHES

The Council may establish branches where in its opinion there is sufficient demand. Such branches shall be governed by the Constitution and Bye-Laws of the Institution or as the Council shall so otherwise decide.

2.0 OBJECTIVES OF ISU

The Objectives of the Institution are as follows:

- To secure the advancement and facilitate the acquisition of that knowledge which constitutes the profession of a surveyor.
- to promote the general interest of the profession and the Institution, and to maintain and extend their usefulness for public advantage;
- to consider and determine matters of professional practice and conduct;
- to act as the voice of the profession in matters affecting its relation with Government and Public bodies and with the public generally, and particularly to advise Government before the issue of work-permits to foreign surveyors;
- to nominate representatives of the profession to Boards and Committees on which representation of the profession is required and desirable;
- to organize professional meetings and activities;
- to establish and maintain scales of professional fees and charges for all members;
- to advise on educational developments for the profession and to arrange for professional examinations;
- to promote, maintain and protect the standards of the surveying profession in Uganda;
- to provide a channel for the collection and dissemination of information relating to the profession, and
- To act in liaison with other professional bodies in matters of common interest.

3. AMENDMENTS OF THE OBJECT CLAUSE

The Amendment of these objects shall be by a simple majority vote in a referendum of all Fellows, Professionals and Associate Members following a resolution of the Institution in a General Meeting at which the proposed amendment is property listed upon the agenda; such resolution having been carried with two-thirds of those present and entitled to vote.

We, the several persons whose names and addresses are subscribed; Being the elected representatives of the members listed in annexure "A" for the time being are desirous of being formed into a company limited by guarantee of the members hereto.

NAME & ADDRESS

SIGNATURES

Dr. Nasani Batungi
P.O. Box 2122
Kampala

President.....

Mr. Daniel Joseph Ajena,
P.O Box 2122,
Kampala

Hon Secretary.....

Dated at Kampala thisday of 2013.

Witness to the above signatures

Name

Occupation

Address.....

THE ARTICLES OF ASSOCIATION
OF
THE INSTITUTION OF SURVEYORS OF UGANDA (ISU)

1.0 GENERAL METINGS

An annual General Meeting shall be held every year at such time and in such place as the Council shall appoint.

The Council may summon an Extra-Ordinary General Meeting when deemed necessary. An Extraordinary General Meeting shall also be called at the request in writing of not less than ten members entitled to vote at General Meetings. The request shall specify the purpose for which the meeting is demanded and it shall be the duty of the council to summon an Extra-Ordinary General Meeting for such purpose within two calendar months from the date of receipt of the request by the Honorary Secretary.

All members shall have not less than three Calendar weeks' notice sent to them by Post of the time and place appointed by the Council for General Meetings/ One-third of the membership, but not less than ten members entitles to vote at a General Meeting shall constitute a quorum.

Voting shall normally be done at General Meeting by a show of hands. Any member present who is entitled to vote may demand a secret ballot and the person presiding at the meeting shall direct how such ballot shall be taken and may adjourn the meeting for the purpose. The person presiding shall have a casting vote.

The President or in his absence the Vice-President shall preside over all General Meetings. In the event of both of these office bearers being absent, the meeting shall elect a Fellow to preside from amongst those members of the council present.

2.0 COMPOSITION OF ISU EXECUTIVE

The executive of the Institution shall be composed of the following:

- a) President

- b) Vice-President
- c) Honorary Secretary
- d) Honorary Vice-Secretary
- e) Honorary Treasurer
- f) Honorary Vice-Treasurer

2.1 DUTIES OF THE EXECUTIVE

2.1.1 President

The President shall in his term of office whenever present preside over all meetings of the Institution and the Council and shall be responsible for the proper conduct of such meetings and for carrying out the policy of the Council and the Institution and shall represent the Institution at all office functions and meetings and shall be the spokesperson of the Institution.

The President shall have a second, or casting vote, in the event of a tie at a meeting.

In the event of his resignation, or inability to act as a President, the Vice President shall assume the presidency for the remainder of the term. In case of permanent absence of both the President, and Vice President the Council shall elect one of its members to carry out the functions of the President and convene a Special General Meeting of the Institution as herein prescribed to elect a new President, Vice President and / or any other office bearers for the remainder of the term.

2.1.2 Vice President

The Vice President shall deputize for the President in his absence.

2.1.3 Honorary Secretary

The Honorary Secretary shall administer the affairs of the Institution under the general direction of the Council and shall be responsible for the safe custody of the Institution's records.

2.1.4 Honorary Vice-Secretary

Vice-Secretary shall deputize for the Honorary Secretary.

2.1.5 Honorary Treasurer

The Honorary Treasurer shall, under the direction of the Council, receive all monies belonging to the Institution, disburse all charges thereto and shall issue receipts for all monies received by him and preserve vouchers for all monies paid by him and shall be responsible for maintaining proper books of accounts and for preparing an Annual Budget and balance sheet.

2.1.6 **Honorary Vice-Treasurer**

The Vice-Treasurer shall deputise the Honorary Treasurer.

3.0 COUNCIL

There shall be a Council of the Executive and other elected members of the Institution; and the management of the affairs and business of the Institution shall be vested in the Council.

3.1 STANDING COMMITTEE

There shall be standing committees to cater for specific areas of interest of the Institution as follows:

- a) Membership and education Committee
- b) Disciplinary Committee
- c) Publications Committee
- d) Social Affairs Committee
- e) Professional Standards and Development Committee

The Council shall appoint all the standing Committees to consist of members of Council, or members of Council and other persons.

All Committees shall conform to any direction that may be given to them by the Council and (subject to such directions) may regulate their procedure as they think fit.

The President and Hon. Secretary shall be ex-officials of all Committees.

3.2 COMPOSITION AND DUTIES OF THE COUNCIL

The Council shall be composed of the office bearers of the Institution and not less than five or more than twenty elected members of whom not more than one quarter may be Graduate Members. Past Presidents of the Institution shall be ex-official members, of the Council for the two years immediately following the end of their year of office.

The Management of the affairs and business of the Institution shall be vested in the Council. All office bearers and members of Council, other than the ex-official members referred to above, shall be elected annually in the manner hereinafter provided.

The Council shall meet at least once every three months. Four shall constitute a quorum at meetings of the Council.

Voting shall normally be done in the Council by a show of hands. Any member of the Council may demand a secret ballot and the person presiding at the meeting shall direct how such ballot shall be taken and may adjourn the meeting for the purpose. The person presiding shall have a casting vote.

The President, or in his absence the Vice-President shall preside over all meetings of the Council. In the events of both these office bearers being absent, the Council shall elect a Fellow Member to preside from amongst those present.

The Council shall have the power to delegate any part of its authority to any committee appointed by the Council and such delegation of authority shall remain in force until it is withdrawn by the Council.

3.3 ELECTION OF OFFICE BEARERS IN COUNCIL

The office bearers and members of Council shall be elected at the Annual General Meeting and shall continue in office until new office bearers and members of Council have been elected at the next Annual General Meeting.

The outgoing Council shall nominate candidates for the Executive and members of Council and shall circulate a list of these candidates to all members entitled to vote at the Annual General Meeting four weeks before the Annual General Meeting takes place.

Any member entitled to vote as aforesaid may nominate further candidates by sending nomination duly seconded by another member entitled to vote as aforesaid so as to reach the Honorary Secretary not less than one calendar week before the Annual General Meeting.

In the absence of nominated candidates for the Executive of Council prior to the AGM, new candidates may be nominated by members during the AGM itself

Candidates may not propose or second their own nominations.

Voting in the referendum may be by proxy in the manner prescribed by the Council.

The Council shall have the power to appoint any eligible member to fill any vacancy amongst the Executive and members of Council. Members so appointed shall remain members at the discretion of the Council.

3.4 BYE-LAWS

The Council of the Institution is empowered to enact, revoke or amend bye-laws consistent with the Constitution to govern any matters which regulations are required. Such enactments, repeals, amendments to the bye-laws shall not come into operation until at a date two calendar months after all Full Members have been notified in writing, with a copy of the particular enactment, repeal or amendment. Evidence of posting or a general notice in the public media shall constitute notification.

3.5 DISCIPLINARY POWERS OF THE COUNCIL

The Council shall have power to be exercised in the circumstances set out in sub-paragraph (a), (b) and (c) of this Clause by a majority of three quarters of those present and voting at a meeting of the Council convened for the purpose.

- a) to reprimand a member, to suspend a member from exercising any rights or privileges of membership of the Institution for such a period or on such conditions as the Council may determine;
- b) to expel a member from the Institution, at least six members of the council must be present at such a meeting, and the member against whom action is considered, must be given the opportunity of presenting his case to the meeting either in writing or in person as one chooses.
- c) the Council may expel a member convicted of embezzlement, larceny, fraud or other criminal offence upon proof to the satisfaction of such a commission.
- d) the Council may temporarily suspend, a member pending an inquiry.
- e) the Council may temporarily suspended, expel or reprimand a member who:
 - i. in their opinion has been guilty of disgraceful conduct in his profession or,
 - ii. has violated any of the provision of the rules of conduct, or,
 - iii. is adjudged bankrupt individually or as partner; makes an assignment for the benefit of creditors under any resolution of creditors, or under the order of a court bankruptcy; under any deed or document has his estate placed in liquidation for the benefit of creditors; makes any arrangement for payment of a composition of creditors; or,
 - iv. uses any professional designation or initials to which one is not entitled.

3.6 AMALGAMATION

Following a referendum of all members entitled to vote of which not less than three-quarters shall have voted in favour; the Council shall have power to enter into an amalgamation with other allied professional bodies or

Institutions which subscribe to the principles and objects of the Institution, and which maintain the same professional standards.

3.7 TRUSTEES OF ISU

Trustees of the Institution may from time to time be appointed by the President on the advice of the Council at any Council Meeting at which the appointment of Trustees is properly placed upon the agenda. There shall be not less than *two* nor more than four Trustees who shall be selected from persons who are Fellows.

Investments, securities and immovable property acquired by the Institution shall be vested in the names of the Trustees.

3.8 PATRONS OF THE INSTITUTION

The Council shall have power to invite prominent persons to become patrons of the Institution.

3.9 FINANCE

The funds of the Institution will include entrance fees, annual subscriptions, contributions, grants, proceeds from sales, or any other source. The Institution shall operate and maintain a bank account.

Signatories to the accounts shall be the President, Secretary and Treasurer.

3.10 OTHER FINANCIAL PROVISIONS

Cheques drawn on any of the Institution's funds shall bear such signature or signatures as the Council may from time to time determine.

No liability of over shs. 100,000/= shall be incurred by any official without the sanction of the relevant Committee of the Council SAVE that the liability limit may annually be reviewed by the Council in line with the prevailing economic conditions.

The Council, shall, subject to such limitations and restrictions as Bye-Laws may prescribe, apply the funds for the administration of the business of the Institution, and use it for promoting the objectives of the Institution.

Auditors shall be appointed at the Annual General Meeting at which elections of Council Members are due. The auditors shall have access at all reasonable time to the accounts and securities of the Institution and shall report thereon

to the next Annual General Meeting. Auditors shall be appointed (or reappointed) annually.

Audited accounts must be presented to the Annual General Meeting, which should take place within 60 days from the end of the Institution's financial year.

3.11 CONFERENCES

As and when directed by the Council or by the President on their behalf, the Secretary shall arrange conferences, meetings, lectures and functions.

The fees due for the services of experts who may be engaged to give lectures or read papers before such Conferences shall be payable out of the Institution's funds.

3.12 PUBLICATIONS

The Institution shall publish such newsletters, information sheets or other documents containing reports of matters of interest to the profession. Such publications shall be published as frequently as may be decided by the Council.

The editorial control of the publications shall be delegated in such manner as the Council from time to time directs.

The Institution shall, at the discretion of the Council, publish periodically a list of members and issue one copy free to each member.

3.13 LIBRARY

The Institution's Library exists for the use of members, and the books contained therein shall be available on the conditions as prescribed from time to time by the Council.

The Council may from time to time allocate such sum of money for the purchase of new books as it thinks fit.

3.14 EXAMINATION AND INTERVIEWS

The Council may cause examinations, whether oral or written to be held for approved candidates for admission as Students; Technicians; Graduates; Associates, or Fellows; and shall frame regulations for such examinations or interviews; defining the times and the place where they shall be held; the subjects which they shall comprise; the fees to be paid or deposited by candidates in respect of such examination; and the conditions under which the candidates may be admitted thereto.

The Council may however from time to time add to or vary or rescind any of the aforesaid examination regulations.

4.0 PRACTISING OF SURVEYING IN UGANDA

No person shall practice surveying in Uganda, unless one is a member of the Institution.

The Surveyors' Registration Board shall register members on the recommendation of the Institution.

ISU shall nominate and recommend members to the Minister for appointment to the Surveyors' Registration Board.

5.0 MEMBERSHIP

Membership of the Institution shall be open to the people practicing in the professions subscribing to the aims and objectives of the Institution, or those persons pursuing professional studies related to the surveying profession and are constituted in a manner consistent with the policies thereof.

5.1 CLASSES OF MEMBERS

There shall be four classes of membership of the Institution namely:- Full member, affiliated members, Corporate members and honorary members. Full members shall include fellows and associate members as fully-fledged members. Affiliated members shall include those other members in the categories of graduates, technicians and students.

5.2 REGISTER OF MEMBERS AND ISSUE OF DIPLOMAS

There shall be maintained a register for all classes of members who shall on election be required to sign the register.

Fellows and Associate Members will be issued with diplomas defining their classes of membership.

5.3 DEFINITION OF MEMBERS

5.3.1 Fellows

The Council may elect as a Fellow at and during the pleasure of the Council, any person who:

- 1.0 Has attained the age of thirty-five years; and
 - a) Holds a professional qualification acceptable to the Council; and
 - b) Is at the time of one's application engaged and has been engaged in some branch of the profession in Uganda for at least three years; and

- c) Has had at least five years post professional qualification of acceptable practical experience in the profession, and
- d) Has made outstanding contribution towards the advancement of the profession, or

2.0 Has attained the age of thirty-five years; and

- a) Holds a professional qualification acceptable to the Council;
- b) Is a principal in a professional firm or a senior partner of a firm or holding a senior position in Government or public body; and
- c) Has made outstanding contribution towards the advancement of the profession.

3.0 Has fulfilled such other conditions as Bye-Laws of the Institution may prescribe

Fellows have the right to attend and vote at any General Meeting of the Institution and are eligible for election to the Council and to any office of the Institution.

Every Fellow shall be entitled to use the suffix F.I.S.U.

5.3.2 ***Associate and Professional Members***

The Council may elect as Associate members at and during the pleasure of the Council, any person who:

- a) Has attained the age of twenty-one years, and
- b) Holds a professional qualification acceptable to the Council, and
- c) Is at the time of one's application engaged and has been engaged in some branch of the profession in Uganda for at least one year, and
- d) Has had at least two years post professional qualification of acceptable practical experience in the profession, and has fulfilled such other conditions as the Bye-Laws of the Institution may prescribe.

OR is a Professional Member of any other Surveying Professional Institution for the time being recognized by the Council as offering sufficient guarantee of knowledge and professional competence; and is ordinarily resident in Uganda

Associate and professional Members have a right to attend and vote at any Annual General Meeting and shall be eligible for election to the Council and to any office of the Institution except that of the President and Vice President.

Associate Members shall be entitled to use the suffix A.I.S.U.

Associate Members shall on registration with the Surveyors Registration Board be designated as Profession Members and shall be entitled to use the suffix "M.I.S.U"

5.3.3 ***Graduate Members***

The Council may elect as a Graduate Member at and during the pleasure of the Council any person who:-

- a) has attained the age of twenty-one years and
- b) is at the time of one's application engaged in some branch of the professional body in Uganda, and
- c) has obtained graduate or equivalent membership of another professional body approved by the Council,
- d) has obtained a basic degree or other approved qualification in one of the branches of surveying profession as approved by Council.

Graduate member shall not be entitled to use any suffix referring to Membership of the Institution.

Graduate Members shall have the right to attend any General Meeting of the Institution and may vote to elect one of their members to each of the standing committees but not any other position on Council.

5.3.4 **Technician Members**

The Council may elect as a technician member at and during the pleasure of the Council, any person who:

- a) has attained the age of twenty-one years, and
- b) is at the time of one's application engaged in some branches of the profession in Uganda, and
- c)
 - i) either possesses a technician's qualification in the surveying profession as approved by the Council, or
 - ii) has passed one of the laid down examinations.

Technician Members have the right to attend any General Meeting of the Institution. They may vote at such meetings to elect one of their members to the Council of the Institution. Technician members are not eligible for election to any other office of the Institution

No technician member shall be entitled to use any suffix referring to membership of the Institution; or to officially/independently be accountable for work done without the support of a full member.

5.3.5 **Students**

The Council may elect as a Student Member at and during the pleasure of the Council, any person who:

- a) has attained the age of eighteen years, and
- b) is an employee in approved employment and/or a student of an approved educational establishment, and
- c) has attained an academic standard approved by the Council.

Student Membership shall be limited to a period of study in a tertiary institution approved by Council.

Student Members shall have the right to attend any General Meeting of the Institution and may vote at such meetings but are not eligible for election to Council or to any office of the Institution. They may however elect a representative to Council.

5.3.6 Corporate Members

Corporate membership shall be limited to incorporated companies/firms practicing in relevant surveying disciplines approved through the ISU Council. These should be practicing in accepted surveying disciplines/practices and at all-time such companies/firms shall have at least one of their directors registered (through the ISU Council and the Surveyors' Registration Board) as a member for each and every one of the approved surveying discipline/practices in the company/firm.

Estate Agency Practice, Building Maintenance Surveying, Land Management Surveying and any other disciplines to be approved in future by Council shall fall in this category of membership.

5.3.7 Honorary Members

The Council may elect as an Honorary Member any person who by reason of either his past or present position or experience of his eminence in the profession may be able to render assistance in promoting the objectives of the Institution but who is not engaged in the practice in the profession in Uganda.

Honorary members shall be entitled to the same privileges as fellows except that they shall not be entitled to vote at General Meetings and shall not take any part in the Management of the Institution.

5.3.8 Temporary Members

Council shall at their own discretion elect persons to become temporary members of the Institution. These shall be non-resident persons who shall satisfy Council that they possess the relevant qualifications, and do possess sufficient, knowledge of professional practice in the local environment.

5.4 MEMBERSHIP FEES

5.4.1 Entrance Fees

The Council shall from time to time fix fees payable by members.

5.4.2 Annual Subscriptions

All classes of members other than Honorary Members shall pay such annual subscriptions as may be laid down from time to time.

All subscriptions shall become due on elections and thereafter on the first day of January of each succeeding year for the year commencing on that day, but a member transferred from one class to another shall not be required to pay the subscription appropriate to the class to which he has been transferred until 1st January next following his transfer.

A member of any class elected before the first day of July in any year shall pay the annual subscription of that calendar year. A member elected on or after the first day of July in any year shall for the calendar year pay half such annual subscription, provided that if one be elected in the last two months of any calendar year and elects to pay the first subscription at the full rate it shall cover the remainder of that calendar year as well as the succeeding year.

A member of any class whose annual subscription or entrance fee is more than three months in arrears shall not be entitled to attend or to take part in any meeting or function of the Institution that may be held, or publication of the Institution that may be issued, or to exercise any of the rights or privileges of membership or to vote, before paying all dues in full.

The Council may in any special case, where in their opinion it is desirable to do so, reduce or remit the entrance fee, or annual subscription, or the arrears of annual subscription of a member of any class.

5.5 ELECTION OF MEMBERS

Candidates for the class of Fellowship shall be proposed by a Fellow and seconded by two other Fellows.

Candidates for other classes (other than the class of Honorary member) shall be proposed by a Fellow and seconded by a Professional Member and as well meet any other conditions prescribed by Council.

Every member shall undertake to observe and uphold the Constitution, Regulations, Bye-Laws and Rules in force for the time being of the Institution.

Election to all classes of membership shall be by the Council and the proportion of favourable votes required for election shall be not less than three-quarters of the members of Council present and voting.

Honorary Members shall be admitted on accepting the invitation of the Council after having been voted eligible by three-quarters of the members present and voting at Meeting of Council.

The Council may at their discretion refuse to admit any person to membership and shall within one month of such a decision notify such person with reasons for declining the admission.

All Applications shall be made on prescribed ISU forms.

5.6 RESIGNATION

Any member may resign on giving three (3) months notice in writing to Council.

5.7 SUSPENSION FOR NON PAYMENT OF FEES

Members of the Institution whose annual subscription are in arrears for six months may, after one month's notice from the Honorary Secretary, be suspended from membership by the Council, but shall continue to be liable for the arrears.

The Council may re-instate such persons on payment of all arrears.

5.8 REMOVAL FROM THE REGISTER FOR NON PAYMENT OF FEES

A member of any class, who has been suspended for non-payment of dues and whose entrance fee and or annual subscription is one year or more in arrears, shall be so notified and in the event of continuing in arrears for three months after such a notification shall thereupon cease to be a member; the name will be removed from the register, and one shall be required to return any Diploma(s) to the Institution.

6.0 CODE OF CONDUCT

All members shall comply with the code of conduct contained in this Constitution.

Certificate of Good Conduct shall be issued by the Institution of Surveyors of Uganda annually to fully paid up members, who also satisfy the Code of Conduct as well as the Registration Board requirements.

6.1 PRINCIPLES OF PROFESSIONAL CONDUCT

- 6.1.1 A member shall at all times fully discharge one's duties and shall not commit any act which will have the effect of avoiding responsibility.
- 6.1.2 A member shall at all times be honest in one's dealings and one's decisions shall be made with integrity purpose.
- 6.1.3 A member shall at all times be free from corruption.

6.1.4 A member's advice shall at all times be impartial.

6.1.5 A member must never place himself in a position where his duties are liable to conflict.

6.1.6 A member shall at all times act in an honourable manner.

6.1.7 A member must not accept any discount gift or commission, which is in any way related either directly or indirectly to one's professional activity.

6.1.8 A member must not advertise one's professional services.

6.2 PROFESSIONAL MISCONDUCT

The following shall constitute Professional Misconduct. A member shall be guilty of professional misconduct if one should:

6.2.1 Accept any work, which involves the giving or receiving of discounts or commission;

6.2.2 Accept any discount, gifts or commission from contractors or tradesmen whether employed upon his work or not;

6.2.3 Own or have a commercial interest, either as a director of a company or as a consultant or adviser or as shareholder in any materials device or invention used in a building without informing his client thereof and obtaining his sanction before specifying the use of it in works under his direction;

6.2.4 Advertise or tout one's professional services or make announcements in the press; except for purposes of notifying, one's correspondents by-post once of any change of address, opening of a new firm or branch; employment, office or alterations in the partnership, or constitution of the firm;

6.2.5 Issue any drawing or prints, specifications, bills of quantities, certificate, final account, or report, unless the same bears one's name or signature;

6.2.6 Will fully destroy his original dimensions, measurements, field notes, bill/report and any other documentary evidence necessary to verify one's bill of quantities or report until six years after the final completion of the contract and the settlement of all accounts;

6.2.7 Attempt to supplant another member to compete by means of reduction of fees or by other inducement;

6.2.8 Knowingly proceed with (major) work which was previously to another member before communication with the member previously employed and

taking steps to ensure that the other member's engagement has been terminated;

- 6.2.9 Obtain or attempt to obtain professional work by means of offering or paying monetary or other valuable consideration of inducement to any person or persons or by any improper means;
- 6.2.10 Act other than in an impartial manner between the employer or the contractor or client and third party, or interpret the conditions of a contract other than with entire fairness as between all parties to the contract;
- 6.2.11 Make a false declaration in one's application for membership;
- 6.2.12 Not comply with the Professional Practice Fees issued by Council;
- 6.2.13 Conduct over self in a manner which the Institution may deem incompetent, dishonourable or negligent in connection with the work performed by one as a professional member of the Institution.

Where it is established that any person is found to have engaged in any of the above practices, the Council Disciplinary Committee may suspend such a member for a specified period not exceeding 1 year and as well recommend further disciplinary action by the Surveyors Registration Board

7.0 EMBLEM

The Institution shall have an emblem as approved and endorsed by the Council.

8.0 THE COMMON SEAL

The Institution shall have a common seal which shall be in the custody of the Honorary Secretary. The common seal shall not be affixed to any certificate or any other document except on the prior authority of the Council and such authority shall be recorded in the minutes of the Council. Such deed or document shall after the Seal has been affixed be signed by the President and in his absence by the Vice-President and one other member of the Council and counter signed by the Honorary Secretary.

9.0 DISSOLUTION

The dissolution of the Institution shall be by a majority vote in a referendum of all Fellows, Professionals and Associate Members, following a resolution of the Institution in a General Meeting at which the proposed dissolution is property listed upon the agenda; such resolution having been carried with two-thirds of those present and entitled to vote. In the event of dissolution, the General Meeting dissolving the Institution shall decide how best to dispose of the assets, including movable property.

10.0 AMENDMENTS

The Amendment of the Articles shall be by a majority vote in a referendum of all Fellows, Professionals and Associate Members following a resolution of the Institution in a General Meeting at which the proposed amendment is property listed upon the agenda; such resolution having been carried with two-thirds of those present and entitled to vote.

11.0 BYE – LAWS

11.1 Entrance Fees

The following entrance fees shall be paid by Fellows, Associate Members, Graduate Members, Technicians and Students:-

	Shs.
(a) Fellows	200,000/=
(b) Professional Members	180,000/=
(c) Associate Members	150,000/=
(d) Graduate Members	80,000/=
(e) Technician	50,000/=
(f) Students	10,000/=

A member transferred from one class to another shall pay an amount commensurate with the new class so promoted to.

Entrance fees shall be payable within two months of election.

11.2. Annual Subscriptions

The following annual subscriptions shall be payable by members of the institution:-

	Shs.
(a) Fellows	200,000/=
(b) Professional Members	180,000/=
(c) Associate Members	150,000/=
(d) Graduate Members	80,000/=
(e) Technicians	60,000/=
(f) Students	10,000/=

The Council of the Institution of Surveyors of Uganda (ISU) shall determine the fees from time to time.

Where the Council does not review the fees, the same shall automatically be increased by ten percent in the following year, but the increment shall not apply to the Student Members.

We, the several persons whose names and addresses are subscribed;

Being the elected representatives of the members listed in annexure "A" for the time being are desirous of being formed into a company limited by guarantee.

NAME & ADDRESS

SIGNATURES

Dr. Nasani Batungi
P.O. Box 2122
Kampala

President.....

Mr. Daniel Joseph Ajena,
P.O Box 2122,
Kampala

Hon. Secretary.....

Dated at Kampala thisday of 2013.

Witness to the above signatures

Name

Occupation

Address.....

OBJECTIVES OF THE INSTITUTION OF UGANDA

- *To secure the advancement and facilitate the acquisition of that knowledge which constitutes the profession of a surveyor.*
- *to promote the general interest of the profession and the Institution, and to maintain and extend their usefulness for public advantage;*
- *to consider and determine matters of professional practice and conduct;*
- *to act as the voice of the profession in matters affecting its relation with Government and Public bodies and with the public generally, and particularly to advise Government before the issue of work-permits to foreign surveyors:*
- *to nominate representatives of the profession to Boards and Committees on which representation of the profession is required and desirable;*
- *to organize professional meetings and activities;*
- *to establish and maintain scales of professional fees and charges for all members;*
- *to advise on educational developments for the profession and to arrange for professional examinations;*
- *to promote, maintain and protect the standards of the surveying profession in Uganda;*
- *to provide a channel for the collection and dissemination of information relating to the profession, and*
- *To act in liaison with other professional bodies in matters of common interest.*

ENFORCEMENT OF DISCIPLINE

- 1. ISU ENFORCES DISCIPLINE THROUGH A DISCIPLINARY COMMITTEE ESTABLISHED BY THE ISU COUNCIL EACH YEAR.**
- 2. FOR REGISTERED SURVEYORS THE ISU COUNCIL WORKS HAND-IN-HAND WITH THE SURVEYORS REGISTRATION BOARD TO ENFORCE PENALTIES FOR ANY REGISTERED SURVEYOR GUILTY OF PROFESSIONAL MISCONDUCT**

Income Statement for 1 January - 31 December 2016 for the FIG Founda

	<u>2016</u>	<u>2015</u>
	<i>EURO</i>	<i>EURO</i>
Donations		
Personal donations.....	97	247
Other donations.....	10.000	10.002
FIG Conferences.....	10.173	9.298
Financial income.....	<u>2.191</u>	<u>1.155</u>
Total Income	22.461	20.702
Expenses		
Grants.....	<u>(19.811)</u>	<u>(15.034)</u>
Total Expenses	(19.811)	(15.034)
Final Result (Deficit)	<u>2.650</u>	<u>5.668</u>

Balance Sheet at 31 December 2016 for The FIG Foundation

	2016	2015
<u>Assets</u>	<i>EURO</i>	<i>EURO</i>
Current assets:		
Receivables:		
Account receivable, FIG.....	235.892	230.549
Other receivables.....	1.155	1.153
Cash at hand and bankaccounts.....	3.110	5.803
Total current assets	240.157	237.505
Total assets	240.157	237.505
<u>Equity and liabilities</u>		
Equity:		
Equity at the beginning of the year.....	236.508	230.840
Retained earnings.....	2.650	5.668
Total equity	239.158	236.508
Liabilities:		
Other debt.....	999	997
Total liabilities	999	997
Total equity, reserves and liabilities	240.157	237.505

**Report to the 40th General Assembly
FIG Working Week, Helsinki, Finland, May/June 2017**

**FIG Foundation
Report of Activities 2016**



1. Administration

The FIG Foundation is located in and administered by the FIG Office in Copenhagen.

A Board of Directors chaired by the President of the FIG Foundation makes the decisions of the Foundation.

The Board of Directors for 2016 was as follows:

- John Hohol, President of the FIG Foundation (USA)
- Prof. Michael Barry, Director (Canada)
- Ir. Liza Groenendijk, Director (Netherlands)
- Dr. Cheng Pengfei, Director (China)
- Prof. Paul van der Molen, Director (Netherlands)

At the end of 2016 Paul van der Molen, now retired, announced that he had decided to resign as board member. Paul van der Molen has been a valued Director for the past 6 years and FIG Council and Foundation Board members extend their special thanks for his commitment to the FIG Foundation including his generous financial donations for these many years.

The FIG Council has appointed Dr. Daniel Steudler from Switzerland as a new Director in the Board of Directors for 2017-2018. FIG Vice President Orhan Ercan replaces Dr Cheng Pengfei as FIG Council representative on the board.

2. Programmes with Corporate Members

FIG Foundation Partners

- Charter Foundation Partner Trimble Navigation continues to support the FIG Foundation by sponsorship of the FIG Foundation Dinner since 2010 and providing other support directly through the Foundation.

3. Meetings 2016

The board held its official meeting in Christchurch, New Zealand during the 2016 Working week. Furthermore the board has been in frequent contact through emails.

All members of the Board and the Charter Foundation partner, represented by William Marbell, were present at the meeting apart from FIG Vice President Pengfei Cheng.

4. Grants 2016

For 2016, two different grants were offered, an academic research grant and a PhD grant.

For the academic research grant FIG Foundation has received three applications, however all were rejected due to the fact that they did not fulfil the requirements.

FIG Foundation received 6 applications for PhD. grant. One was accepted:

Wallace Mukupa, University of Nottingham Ningbo China, Structural Change Detection and Deformation Monitoring. Mr Wallace Mukupa has received EUR 4,000 which are planned to be used for his project.

Included in the grant was also EUR 3,000 to participate in the FIG Working Week 2017 if his paper was accepted as a peer review paper.

In 2016 the FIG Foundation awarded grants totalling 4000 to Young Surveyors to participate in the Working Week in Christchurch, New Zealand, and 2,500 USD to support two participants to the SIDS Workshop and FIG Working Week. Unfortunately, it was only possible to find one to sponsor to the SIDS Workshop with in total 1,250 USD: Chethna Ben, Fiji, Assistant Lecturer, University of the South Pacific, School of Land Management and Development.

The four Young Surveyors were:

- Donmarl Camua, Philippines
- Suman Baral, Nepal
- Maitena Navarro, Argentina
- Kelvin Tang , Malaysia

Ms. Melissa Robert, Uruguay was approved a grant in 2016 2,000 EUR to support her attendance at the 2nd FIG Young Surveyors North American meeting in February 2016 and the XIV Congreso Internacional de Topografía, Catastro, Geodesia y Geomática in September 2016 in Costa Rica. At the same time FIG and FIG Foundation extend a special thanks to Ms Melissa Roberts for her work on the promotion of FIG in the Latin American area.

Further to this Melissa Roberts was supported to the YS meeting in Argentina with 1,000 EUR

YS European Meeting in Amsterdam received 5,000 EUR.

The Board has approved a grant requested by the Chair of FIG Commission 3 Chair, to support young surveyors to attend and participate in the Commission 3 Annual Meeting and Workshop, 3-6 November 2016 in Iasi, Romania. The grant awarded was 3000 EUR.

In total 19,811 EUR was spent in 2016.

5. Donations in 2016

	EUR
Kiwi dinner, Working Week	1,610.00
Charity run	200.00
Voluntary donations from registrations WW	945.00
Registrations WW	7418.00
Donation from Trimble to Foundation	10,000 EUR
Special donation from Gerda Schennach, Chair of FIG Com 7	100 EUR(97)

Interest

Interest 2016	2,191
<u>Total Income FIG Foundation 2016</u>	<u>22461</u>

Donations from registrations:

Name	Country	Donation
van der Molen Paul	Netherlands	175
Jibril Ibrahim Usman	Nigeria	100
Doytsher Yerach	Israel	100
Foster Robert W.	United States	100
Hohol John	United States	100
Brock John	Australia	50
Leiknes Arve	Norway	50
Unger Eva-Maria	Austria	50
de Zeeuw Kees	Netherlands	25
Dijkstra Paula	Netherlands	25
Smejkal David	Czech Republic	25
Kaufmann Juerg	Switzerland	25
Lemmen Christiaan	Netherlands	25
Camilleri Randolph	Malta	20
Gertrude Njar	Nigeria	20
Nilipovskiy Vasily	Russian Federation	20
Dabiri Thomas	Nigeria	10
McKenna John	United States	10
Abu Bakar Rabieahtul	Malaysia	10
Awofeko Abiodun	Nigeria	5
		945

Thanks to all who have contributed to the Foundation.

6. Grants 2017

Again in 2017 the call for Academic Research Grants and the FIG Foundation PhD Scholarships were published.

The FIG Foundation Academic Research Grants provide grant of up to 30,000 EUR spread over three years. The conditions are that applicants shall be based in a surveying/geomatics academic programme that teaches surveying in a country listed by the World Bank as a low-income, lower-middle or upper-middle income economy. Deadline 31 March 2017.

The FIG Foundation PhD Scholarships will be provided of up to 4,000 EUR to PhD students. Successful applicants will qualify for a further grant of up to 3,000 EUR to attend and present a peer reviewed paper at a FIG conference. Conditions are that applicants shall be studying for a PhD degree and registered solely in a surveying/geomatics academic programme that teaches surveying in a country listed by the World Bank as a low-income, lower-middle or upper-middle income economy. Deadline 1 February 2017.

7. Accounts 2016

The income statement for 2016 and the balance sheet at 31 December 2016 are attached to this report.

The total income in 2016 was 22,461 EUR and expenses 19,811EUR which gives the net result of 2,650 EUR.

The total assets are 240,157 EUR.

The FIG Foundation would like to sincerely thank all those who have generously donated in 2016 in support of the FIG Foundation.

The FIG Foundation would also like to sincerely thank Trimble Navigation for their generous contribution and support of the FIG Foundation over these many years.

John Hohol

President of the FIG Foundation

March 2017

Web page: www.fig.net/figfoundation



OFFICE INTERNATIONAL DU CADASTRE ET DU RÉGIME FONCIER
INTERNATIONAL OFFICE OF CADASTRE AND LAND RECORDS
INTERNATIONALES AMT FÜR KATASTER UND GRUNDBUCHWESEN

OICRF Annual Report 2016

OICRF - the International Office for Cadastre and Land Records - is one of the permanent bodies of the International Federation of Surveyors (FIG). OICRF serves as a documentation and study centre for land administration and is charged with the following tasks:

- collecting and systematically filing and indexing all documentation material relating to existing cadastres and land registration systems,
- conducting comparative studies of this material and publishing the results,
- providing information and advice on all cadastres and land registration systems to all interested persons and institutions for the purposes of study or to help countries wishing to set up a cadastre or land registration system or improve an existing system, and:
- maintaining the documentation system on a daily basis.

The digital Land Administration Library in 2016

OICRF maintains a digital library that contains 16.385 publications (December 31, 2016). OICRF contents are available in different languages. All of the available documents and the most recent publications can be accessed electronically at www.oicrf.org. In 2016 the digital library got about 16.500 visitors. About 11.400 papers have been downloaded. This number is based on the application of Google Analytics; visits from search engines are excluded in this.

Standardisation


OICRF is strongly involved in the development of standards for Land Administration. This concerns the Land Administration Domain Model (LADM) and the Social Tenure Domain Model (STDM).

Contact

OICRF does its utmost to provide the best possible service for anyone who requests information. This is made possible by the support of our host: Cadastre, Land Registry and Mapping Agency of the Netherlands.



Dr ir Christiaan Lemmen
OICRF director



Ms Pauline van Elstrand
OICRF secretary

OICRF Comparative Studies In 2016

- van der Molen, P. (2016) Property, human rights law and land surveyors. In: Survey review, 47 (2016)346 pp. 51-60.
- van der Molen, P. (2016) Paris agreement : land is a great issue! : column. In: GIM International, 30 (2016)1 pp. 6.
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- McLaren, R., Enemark, S., Lemmen, C.H.J., Antonio, D. and Gitau, J. (2016) A guide for building fit-for-purpose land administration systems in less developed countries : capacity development, change management and project delivery + powerpoint. In: Scaling up responsible land governance, proceedings of the annual World Bank conference on land and poverty, 14-18 March 2016, Washington DC, United States. 21 p. + 23 slides.
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- Enemark, S., McLaren, R., Lemmen, C.H.J., Antonio, D. and Gitau, J. (2016) Scaling up responsible land governance : a guide for building fit-for-purpose land administration systems in less developed countries + powerpoint. In: Scaling up responsible land governance, proceedings of the annual World Bank conference on land and poverty, 14-18 March 2016, Washington DC, United States. 36 p. + 20 slides.
- Todorovski, D., Zevenbergen, J.A. and van der Molen, P. (2016) Which interventions in land administration facilitate post - conflict state building? + powerpoint. In: Scaling up responsible land governance, proceedings of the annual World Bank conference on land and poverty, 14-18 March 2016, Washington DC, United States. 26 p. + 18 slides.
- Todorovski, D., Zevenbergen, J.A. and van der Molen, P. (2016) How do interventions in land administration in post-conflict situations facilitate state building?. In: International journal of peace and development studies : open access, 7(2016)3, pp. 18-31
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- van der Molen, P. and Mitchell, D. (2016) Climate change, land use and land surveyors. In: Survey review, 48 (2016)347 pp. 148-155.
- Todorovski, D., Zevenbergen, J.A. and van der Molen, P. (2016) Conflict and post - conflict land administration : the case of Kosovo. In: Survey review, 48 (2016)350 pp. 316-328.
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- Enemark, S., McLaren, R. and Lemmen, C.H.J. (2016) Fit-for-purpose land administration: guiding principles for country implementation: Nairobi, UN/HABITAT/GLTN/Kadaster, 2016.
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- Lemmen, C.H.J., Knight, P., Beentjes, B., Vos, J., de Boer, A., Unger, E.M., Dijkstra, P. and van der Heide, J. (2016) Blockchain - bitcoin functionality in land administration : powerpoint. Presented at: FIG working week 2016 : recovery from disaster, 2-6 May 2016, Christchurch, New Zealand. 37 slides.
- Molendijk, M., Lemmen, C.H.J., Bennett, R.M. and de Zeeuw, K. (2016) A variety of continuums for citizen centric land administration : powerpoint. Presented at: Recovery from disaster : FIG working week 2016, 2-6 May 2016, Christchurch, New Zealand. 47 slides.
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- Todorovski, D., van der Molen, P. and Zevenbergen, J.A. (2016) Post-conflict land administration, facilitator of post-conflict state building. In: Proceedings of FIG working week 2016 : recovery from disaster, 2-6 May 2016, Christchurch, New Zealand. ISBN: 978-87-92853-52-3. 20 p
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- van der Molen, P. (2016) No state budget means no governance. What to do? : column. In: GIM International, 30 (2016)9 pp. 6.
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IIHSM Report for 2016

After our report to the general Assembly in Christchurch the IIHS&M organized a one day symposium led by our PR man John Brock. Regretfully we personally could not attend due to medical problems. Jim Smith could not attend due to his wife's requirements of close attention and David Wallis, our honorary treasurer, is also now at an age where travelling is no longer advised. Hence we are in need of several new members who can be active.

This year in Ghent University we have attended the opening of the exhibition of the EDM instruments of the Wright - Draper donation to the University Science museum. For many years, with others helping, efforts were made to house the exhibit in the UK did not materialize. Hence the move to Ghent finally arranged through the efforts of IIHS&M officers.

In Uppsala Sweden we have "discovered" and then attended the auction of, the earliest known theodolite of 1566 by Ulrich Sniepp for sale, it sold for 3 000 000 S.krone which equates to over 300.000€. This item from a Swedish army collection has apparently remained in a Swedish collection.

We have been contacted by Imre Demhardt , chairman of The History Commission of the ICA (International Cartographic Association) with regard to the possibility of future joint meetings.

Concerning the Struve Meridian Arc that we put on the World Heritage List of UNESCO in 2005. Every 2 years there is a meeting of the 10 countries concerned namely: Norway, Sweden, Finland, Russia, Estonia, Latvia, Lithuania, Belarus, Moldova and Ukraine; local actions by each country are communicated centrally where the IIHSM is also represented.

In May 2016 we met with the director of UNESCO projects to inform the community of the aim of enhancement of the project over the central European countries , till Greece and Crete, crossing the Mediterranean Sea and along the 30th Meridian Arc of Africa, to extend the cover to 105° of latitude . This was indeed the original aim, signed by all countries concerned in the original documents to UNESCO and has been under preparation for the last 10 years due to the efforts of Jim Smith in particular and to a representative from Serbia for the central European countries and to our colleagues in RSA for both parts of Africa, from Egypt to South Africa. We welcome all Surveyors – General of the Concerned East African Countries to contact us for further cooperation and for local fieldwork and control of the existing trigonometric points of the original 30th meridian Arc.

We look forward on this occasion here in Finland to exhibit the 1000 page Struve Report, Jim Smith and I translated several years ago from early French into English, on the demand of the 10 countries involved by the Struve Meridian Arc. Copies can still be purchased through Jan de Graeve.

The year of the Chernobyl disaster we had prepared an exhibition on the figure of the Earth, which was due to travel in Finland, to commemorate the expedition by the French Academy in 1735, but was cancelled on the last minute. We wanted to take it there as a first occasion so the people in Lapland could see the fruit of nearly 300 years of measuring their country and researching the shape of the earth.

In 2017 the University of Princeton will digitalize a 1525 original Ptolomaeus document that is an important and uniquely annotated edition. This is possible due to the bringing together of the 2 parts, the text from my collection and the Illustrated maps, bought 100 years ago by the University.

I have worked hard in recent years to look for and collect works of the famous surveyor and cartographer Gerard Mercator, so as to reconstruct his scientific library and to try and explain how he invented his projection with increasing latitudes, still in use today 450 years later and still unexplained.

We hope to deposit at the office in Copenhagen the original reports of FIG since 1878, when it was created, to reconstitute the archives of our international organization.

We welcome colleagues to come and join us to study history of our profession

Jim Smith
Honorary secretary

Jan De Graeve
director

Commission 1 report

The following report outlines the activities of Commission 1 in 2016. All Working Group Chairs attended the FIG Working Week in Christchurch. They all participated in either running sessions or presenting papers on their respective topics.

WG 1.1 Ethics: At the WW 2016 WG 1 Chair Gary Strong presented an updated report on the International Ethics Standards Coalition (IESC) and chaired a discussion on ethics and ethical standards. This session was well attended. Mr Strong remains the FIG representative at the IESC meetings, and I remain his substitute and am copied into the reports from the IESC. An interactive session on ethics is planned for WW 2017, with the presentation and analysis of a real case.

WG 1.2 Women in Surveying. At WW 2016 co-Chair Winnie Shiu was the guest speaker at the locally organised Women in Spatial Breakfast. Ms Shiu and co-Chair Robyn McCutcheon were active in networking with the women attending the WW throughout WW 2016. A session and event are being organised for WW 2017 and Ms McCutcheon will present a paper on the results of a survey carried out.

WG 1.3 International Boundaries. Little progress has been made in this WG, but Chair Don Grant is still attempting to organise a team to assist him. Dr Grant and Mr Hiam Shрабо will be presenting papers on this topic at WW 2017. A publication is still expected at the end of the four-year term.

WG 1.4 Engaging Private Practice. The Chair, Mr Malcolm McCoy made a presentation and led a discussion on how FIG could better engage with private practitioners at WW 2016. This session was not well attended and while there was some discussion, the outcome was that most issues were considered to be of national rather than international relevance. The Chair will not be attending WW 2017 and consideration is being given to closing this WG.

WG 1.5 Mutual Recognition. WG Chair Kate Fairlie presented a paper on mutual recognition in the ASEAN region at WW 2016. She is, along with colleagues preparing to present a paper, along with colleagues, and chairing an interactive session on mutual recognition. Ms Fairlie will also present the results of a survey that is being carried out by the WG at WW 2017.

In summary, all WGs and their Chairs were active at WW 2016. Four out of the five WG Chairs will be present, presenting papers and organising sessions at WW 2017.

Brian J Coutts
Chair Commission 1

**Report to the 40th General Assembly
FIG Working Week 2017, Helsinki, Finland**

FIG Commission 2 – Professional Education

Report of Activities 2016

1. General

FIG Commission 2 is the domain of professional surveying education. The traditional core areas for the commission are: 1) curriculum and core surveying body of knowledge, 2) teaching and learning methodology, 3) marketing and management of professional education and 4) accreditation and quality assurance. For its term 2015 – 2018 these core areas are being addressed by the four following working groups:

- Working Group 2.1 – Towards educating the land professional
- Working Group 2.2 – Innovative learning and teaching
- Working Group 2.3 – Demand for and supply of Professional Education
- Working Group 2.4 - Accreditation and Quality Assurance

All working groups work together to contribute to the FIG Commission 2 focus areas for its term 2015 – 2018:

1. Becoming an active Commission
2. Professional education world-wide
3. The chain of professional surveying education
4. Towards educating the land professional

Traditionally Commission 2 has a leading role in the Academic Forum. The Academic Forum is the platform for FIG Academic Members. FIG Commission 2 further supports the FIG Young Surveyors Network, the OICRF and participates in the FIG Foundation.

2. Working Groups

2.1 WG Towards educating the land professional

Chair: Dr.-Ing. Fahria Masum (Germany): (fahriaurp@yahoo.com)

Co-chair: Reshma Shrestha (Nepal) (shrestha19012@itc.nl);

Co-chair: Gordon Wayumba (Kenya) (gowayumba@gmail.com)

Working Group 2.1 and Working Group 2.2. have joined forces to come up with a proposal for an FIG Publication. A paper dedicated to this publication will be presented during the FIG Working Week in

Helsinki: 'Enhancing the role of surveyors: bridging the gap between demand for and supply of professional education'. Dr. Fahria Masum, chair of working group 2.1. will take the lead and come with a proposal.

FIG Commission 2 Publication Team		
Dr.-Ing. Fahria Masum	Technische Universität München, Germany/between jobs	fahriaurp@yahoo.com
Dr. Audrey Martin	Dublin Institute of Technology (DIT)	audrey.martin@dit.ie
Dr. Reinfried Mansberger	University of Natural Resources and Life Sciences (BOKU)	mansberger@boku.ac.at
Liza Groenendijk	ITC -University of Twente, The Netherlands	e.m.c.groenendijk@utwente.nl

Several WG 2.1. members have been very actively involved in the work of the Academic Forum (see item 3).

2.2 WG Innovative learning and teaching

Chair: Dr. Audrey Martin, audrey.martin@dit.ie

Unfortunately we had to cancel the planned FIG Commission 2 meeting and workshop in Dublin, Ireland, to be organised by the Dublin Institute of Technology. It was considered to be too close near the FIG Working Week in New Zealand. Other options appeared not to be feasible as most of the active Commission 2 members could not attend. We therefore decided to postpone it.

WG 2.2 works in close cooperation with WG 2.1 on the publication: Enhancing the role of surveyors: bridging the gap between demand for and supply of professional education.

2.3 WG Demand for and supply of Professional Education

Chair: Dr. Nadezda Kamynina (kamyninan@gmail.com)

Online communication and support to Commission 2 in general.

No special events by Working Group 2.3 for 2016. More activities expected in 2017 and participation in the FIG Commission 2 Publication.

2.4 WG Accreditation and Quality Assurance

Chair: Prof. Alias Abdul Rahman (alias.fksg@gmail.com)

Like in 2015 Professor Alias Abdul Rahman organised a Commission 2 session on Geomatic Education within the GGT 2016 International Conference in Kuala Lumpur from 3 - 5 October 2016

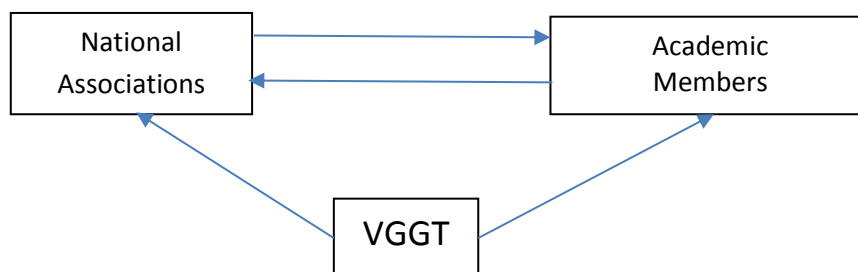
(<http://www.geoinfo.utm.my/GGT2016/>).

3. Academic Forum Working Group on the VGGT

‘Strengthening land governance in professional surveying curricula and academic research’ was chosen as the theme of FIG Academic Members Forum during the FIG Working Week in Christchurch. A major tool to achieve good land governance are *The Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests in the Context of National Food Security (VGGT)*. FIG works closely together with FAO within the framework of implementing the VGGT and in particular does the FIG Academic Members Forum.



One of the key outcomes of the discussion, during the Academic Forum Sessions in Christchurch, was the centrality of the relationship between National Associations and Academic Members to the successful application of the VGGT as is illustrated in the following graph:



In order to follow up on the outcomes of the Academic Members Forum in Christchurch, New Zealand, and with the aim of exploring the VGGT from a surveying (and land professional) perspective, the Forum

FIG Academic Members Working Group on the VGGT		
Walter de Vries	Technische Universität München, Germany	wt.de-vries@tum.de
Chethna Ben	School of Land Management and Development, FIJI	chethna.ben@usp.ac.fj
Mohsen Kalantari	Melbourne School of Engineering, Australia	mohsen.kalantari@unimelb.edu.au
Liz Groenendijk	ITC -University of Twente, The Netherlands	e.m.c.groenendijk@itc.nl
Francis Roy	Université Laval, Québec Département des Sciences Géomatiques	Francis.roy@scg.ulaval.ca

decided to form a working group, ‘Exploring the VGGT in Practice’.

The working group had Spype meetings every two to three weeks to discuss their plans and implementation of the activities (6 meetings; with a break during October- December).

It was decided to conduct exploratory research to assess the impact of the VGGT on the surveying professional practice. A survey has been developed and made available on the FIG website for all FIG

members and delegates. A second research initiative focussed on the way in which the VGGT are represented in surveying curricula around the world. The outcome of the activities of this working group will be presented during the FIG Working Week in Helsinki; 3 abstracts have been submitted, including a French one.

4. Cooperation

FAO

Strong relationship has been build up with FAO: during the preparation of the Working Week in Christchurch and the Academic Members Forum and in support of the work of the Academic Member Working Group on the VGGT (Paul MunroFaure, Leila Shamsaifar and more recently Morten Hartvigsen) .

UN Habitat/GLTN

Commission 2 has close links with UN Habitat/ GLTN, in particular through David Mitchell, and the work on a Curriculum for Responsible Land Administration.

From 26 -28 of September the chair of Commission 2 participated in an Expert Review Workshop on the Guidelines for the Development of Curricula on Land Governance in Africa, in Nairobi, Kenya, organized by Land Policy Initiative of the UN Economic Commission for Africa and UN-Habitat/GLTN.

5. FIG Working Week in Christchurch, New Zealand, May 2016

Commission 2 Annual Meeting.

Unfortunately few people attended (Prof. Yoshiro, John Hannah, Elena Rangelova and Paula Dijkstra) . This was also noted in other Commission Meetings. Suggested is to think about another form for the Commission Meetings. For example a speed dating or 'open market' event with all the commissions: 1) introduce all the commissions to newcomers within FIG and YS; opportunity to join and 2) plan separate commission meetings with the working group chairs and active members.

FIG Commission 2 Diner together with FIG Commission 1.

As always, we had a nice and lively Commission dinner together with Commission 1. A big group of people and partners. Many of those who could not join the annual meeting were present at the diner.



Technical Sessions

Initially FIG Commission 2 had 4 technical sessions. With the Working Week approaching many presenters withdraw and a lot of rescheduling took place. Finally we had the following two technical sessions: TS02G Enhancing Surveying Education and TS05G Teaching and Learning for the Future. We had great sessions with a large diversity of topics ranging from Holistic Thinking towards BIM. We could also welcome some Young Surveyors in our sessions. The chairs and rapporteurs contributed greatly to the success of our technical sessions. Therefore many thanks to Vasily Nilipovskiy, Francis Roy and John Hannah.



6. Communication and publications

In June the FIG Commission 2 Newsletter has been published.

http://www.fig.net/organisation/comm/2/activities/newsletters/Newsletter_June_2016.pdf

We have a LinkedIn page with 58 members; activity has been low during 2016.

7. FIG Foundation

Traditionally the chair of FIG Commission 2 is member of the Board of the FIG Foundation. The annual Board of Directors Meeting took place on 4th of May. Also during the year, the FIG Foundation has

communication and discussions via e-mail. For a report on all the activities please refer to the FIG Foundation annual report 2016

8. Other highlights

Certificate of appreciation

Buddhi Narayan Shrestha, president of the Nepal Institution of Chartered Surveyors (NICS) and chair of the steering committee of the Nepal Commission 2 Workshop in 2015, and Ganesh Prasad Bhatta, chair of the organising committee of the Nepal Commission 2 Workshop have been awarded with a FIG Certificate of Appreciation. It was handed over to them during the FIG Working Week in Christchurch.

New FIG Commission 2 members

- Dr. Elena Rangelova, School of Engineering, University of Calgary, Canada, Working group 2.1.
- Prof. Dr. Walter de Vries, Technical University Munich, Working Group 2.2.
- Yoshiro Nakahori, Visiting Prof. Saitama University, Department of Civil Engineering, Consultant, Japan Association of Surveyors, Working Group 2.2. (reconfirmed his active membership)

FIG Young Surveyors Network

From 7 – 9 June 2016 the Young Surveyors Network organised the 4th Young Surveyors European Meeting in Amsterdam. On behalf of the FIG President Chryssy Potsiou the chair of FIG Commission 2 addressed the participants during the opening session. On the picture Eva-Maria Unger (Austria) and Paula Dijkstra (The Netherlands), the pillars of the YSN.



ANNUAL REPORT COMMISSION 3 - 2016

The activities of the FIG Commission 3 during the year 2016 is continuing in the study, research and experiences in the field of development and use of VGI, GIS systems and SIM and SDI procedures.

Commission 3, through the contribution of the four working groups, composed of professionals and academics from around the world, has achieved excellent results in the search for simple and reliable method of collecting, monitoring and managing data concerning the territory (geographical, aero photogrammetric, geomorphological, economic, land, statistics, etc.).

Thanks to the cooperation of the chairs of the working groups, more research have been discussed under the following matters:

- 1) SIM Infrastructure;
- 2) Technical Aspects of SIM;
- 3) 3D Cadastre;
- 4) Crowdsourcing and VGI supporting SDI.
- 5) SDI at all levels – local, regional, national and global;
- 6) SIM challenges – natural and environmental risk prevention and disaster management, mitigation, waste management, etc.;
- 7) VGI collection, dissemination, analysis, applications, maintenance and visualization;
- 8) e-Governance and SDI in supporting decision making – theory, applications and best practice;
- 9) Integration of SDIs – cadastre, land use, utilities, environment, socio-economic;
- 10) SDI interoperability – standards, technical tools, metadata, portals;
- 11) 3D/4D Cadastre;
- 12) Utilization of VGI and Crowdsourcing with SDI, SIM and environmental information;
- 13) 2D/3D/4D geospatial models, algorithms, visualization, standards and applications;
- 14) Web and mobile GIS – challenges, services and real-time capabilities;
- 15) Business models and SDI, public-private partnerships and economic aspect.

The importance of the general topics as SDI, SIM, GIS, etc. together with VGI has drawn the attention of many delegates who have allowed to carry out interesting working sessions during the FIG Working Week in New Zealand and during the Commission 3 Annual Meeting and Workshop.

Talking about New Zealand, FIG Commission 3 participated in Christchurch for the FIG Working Week with 6 technical sessions, 2 joint sessions with Commission 7 and with about 50 presentations.

All presentations were of high scientific level, well linked to both the traditional topics of Commission 3 and the topic of the FIG WW 2016 “Recovery from Disaster”. In the technical sessions of Commission 3 significant results were illustrated coming from the latest research about how we collect, compare, control and manage the data concerning the territory. The speakers, coming from professional or academic world, reported and commented on their specific research or work. Such research has been the concrete contribution to the activity of the territorial administration of the relative countries. In particular, some researches have pointed out the existence and identification of conditions of "vocation" or "repulsion " that on one hand promote sustainable development or, on the other hand, represent the cause of impact or of environmental damage. Governments which decide and make the choices need more updated spatial data for sustainable development, environmental protection and, above all, for the prevention of disasters.

During the week, on Wednesday 4th May, the Annual Meeting of the Commission was held.

During this meeting, where also new delegates participated in, the chair of the Commission, Enrico Rispoli, presented the structure of the Commission, gave the floor to each of the chair of the Working Groups to present their plans, presented the current work plan, the results of the past events held in Sofia for the FIG WW 2015 and above all the results of the event in Malta in November 2015 for the Annual Meeting of Commission 3 and Workshop.

Enrico Rispoli underlined to the delegates the future commitment of the researchers participating in the working groups of Commission that will be to identify systems that facilitate the transition from the considerable amount of data to be selected and controlled to the availability of useful, accurate and of quality spatial information.

Before closing the Annual Meeting the venue of the next meeting and workshop of the Commission was discussed and it was decided to held this meeting in Iasi (Romania) from 3rd till 7th November 2016 joint to GEOMAT 2016 International Symposium organized by Gheorghe Asachi Technical University of Iasi in Romania in collaboration with the Union of Surveyors and other institutions and joint to the General Assembly of EGoS (European Association of Surveyors).

The aim of this commission 3 workshop theme in Iasi was to investigate the processes and conventions dealing with geospatial data (and big geodata), mainly in respect to land administration (e.g., good governance, efficient operations of property markets, affordable planning and appropriate environmental management), but more generally in respect to the collection, processing, interpretation, administrative, and analysis levels. In the workshop theme, ideas and discussions was made and presented in relation to the new exploitation, development and use methodologies of VGI derived information to various geographic and social scientific disciplines that make use of mapping, GIS, SIM and SDI systems and procedures related to environmental and sustainable infrastructure, on local, as well as on global, scales.

This workshop provided an opportunity to discuss acquisition, synthesis, integration, use, archiving, and the place of VGI, PM and crowdsourcing in SDI and SIM workflows, and also give stage to general theoretical, scientific and practical research associated with SDI and SIM.

FIG Commission 3 was particularly honored to organize its Annual Workshop in Iasi, Romanian city candidate as the European Capital of Culture for the year 2021.

Iasi, the most important and friendly city in Moldova, was also chosen for its architectural beauty that “charms the eye and seduces the heart”, particularly by visiting the places of Orthodox worship. In this context was organized the Workshop "From Volume to Quality: Bridging the Gap for Spatial Data Infrastructure" (3-7 November 2016). The workshop was organized in joint with the International Symposium Geomat 2016 and with the EGoS General Assembly by the Department of Surveying and Cadastre, Faculty of Hydrotechnics, Geodesy and Environmental Engineering from Technical University of Iasi and co-organized by the Romanian Association of Romanian Surveyors.

The program included three days of technical sessions with a wide variety of presentations focusing on the latest news and was a good opportunity to meet colleagues and exchange knowledge in the field of satellite tracking and of Spatial Information Management.

The workshop aimed to focus on the role of Geographic Information Systems in relation to the correct forms of managing spatial data over the Internet. The gap is resulting from processing of large volumes of spatial data (quantity) in the informatics environment, often uncontrollable, and thus must be filled by an appropriate approach to ensure to users the reliability of information and to prevent incorrect decisions. The exchange of knowledge between the various members will also facilitate the synergy between public administrations that fulfill specific activities on the territory: from urbanism to spatial planning, from the environment to civil defense, from roads to construction, from agriculture to forestry, from tourism to culture.

This workshop explored ideas and methods on how we can engage citizens through crowdsourcing within reliable new models of collaboration.

The delegates of Commission 3 who were present in Iasi were about 30 while participants in the International Symposium Geomat were about 200. Participants included professionals, cadastral managers, university teachers and young surveyors.

The President of FIG, Chryssy Potsiou, presented the current initiatives of FIG Council, focusing on the politics about how involving more and more delegates representing the members associations, the task Forces and the different Networks.

The Secretary General of CLGE and the President of EGoS were present in all sessions of Commission 3 Workshop and International Symposium together with the representatives from Germany, Greece, Italy, Moldova, Romania, Israel, UK, Malta, ecc.

On Saturday morning the EGoS GA took place

The program of Commission 3 included 7 technical sessions with a total of 20 papers, all about the topic of the Workshop and of Commission 3 (the program can be downloaded from FIG website www.fig.net).

As it usually happens during the FIG Commission Annual Meetings and Workshops, during the Closing Ceremonies there was the proclamation of the Best Paper. This year in Iasi as Best Paper was elected “ Rectilinear Approach to 3D Generalization of Building Models” by Alexey NOSKOV and Yerach DOYTHER (Israel).

The initiative to organize Commission 3 Workshop joint with other events of high scientific and professional interest was very successful cause it attracted the participation of all representatives within the field of Spatial Information Management.

As planned activities of Commission 3 in 2017 there will be the participation in the FIG WW 2017 with 5 technical sessions and some joint sessions with Commission 7 and the organization of the Commission Annual Meeting and Workshop that will be held in Lisbon in autumn 2017.

In 2018 there will be the participation in the FIG Congress in Istanbul and the organization of the Commission Annual Meeting and Workshop in autumn 2018 (venue tbd).

Warm thanks to the Vice Chairs of the Working Groups of Commission 3 for their contribution, in particular Vice Chair of the Working Group 3.4, Sagi Daylot, and the Vice Chair for Administration, Maria Grazia Scorza.

Warm thanks to FIG Office and its staff for the excellent work in supporting Commission 3.

PROGRESS REPORT OF COMMISSION 4- HYDROGRAPHY

Commission 4 operates under three Working Groups namely;

- WG 4.1 Standards and Guidelines for Hydrography Chair: Simon Ironside (New Zealand)
- WG 4.2 Maritime and Marine Spatial Information Management Chair: Jonathan Li (Canada)
- WG 4.3 Blue Economy Chair: Gordon Johnston (United Kingdom)

So far, WG4.1 and WG 4.3 are the most active. Hereunder are the activities of WG 4.1 and planned activity of WG 4.3

Changes and Update from Original Work Plan

Recall that Peter Barr was the Chair of the working group, but now he has volunteered to be a member of the working group. Working Group 4.1 (WG 4.1) currently consists of members from Australia and New Zealand and is supported by the respective FIG Member Associations; the Surveying and Spatial Sciences Institute (SSSI) in Australia (SSSI) and the New Zealand Institute of Surveyors (NZIS).

Simon Ironside	Chair	New Zealand
Micheal Beard	Vice Chair	Australia
Mathieu Bestille		Australia
Peter Barr		Australia

WG 4.1 has committed itself to a number of specific outcomes based on the agreed objectives of the Working Group over the period of the work plan as follows:

- Broaden the membership of WG 4.1 to ensure its legitimacy as an active international professional body.
- Support the International Hydrographic Organization (IHO) through the work of its Hydrographic Services and Standards Committee (HSSC) by participating in HSSC working groups to review hydrographic standards and guidelines, primarily:
 - S-44 – IHO Standards for Hydrographic Surveys (the most recent version is the 5th Edition, February 2008).
 - S-100 – IHO Universal Hydrographic Data Model (January 2010)
- Support FIG members on the FIG/IHO/ICA International Board of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) in reviewing and updating competency standards, namely:
 - S-5A – Standards of Competence for Category ‘A’ Hydrographic Surveyors (currently under review).
 - S-5B – Standards of Competence for Category ‘B’ Hydrographic Surveyors (February 2015).
- Represent Commission 4 on the FIG Standards Network and other international fora where appropriate.
- Support the work of other FIG Commissions and Working Groups, and participate in Commission 4 events where possible.

Progress against WG 4.1 Objectives/Outcomes in 2016

– Broaden WG 4.1 membership

Two members, Emily Tidey (New Zealand) and Simon Allen (Australia), stood down from the WG in 2016. One additional member, Mattieu Bestile (Australia), has joined. Simon Ironside (New Zealand) who assumed the role as Chair in February 2016.

Additional members will continue to be sought in the coming year with the aim being to ensure the WG encompasses appropriate international expertise to be able to make meaningful contributions to WG outcomes/deliverables.

– HSSC Involvement

In accordance with WG 4.1 Terms of Reference, published on the FIG website (www.fig.net/organisation/comm/4/2015-2018/WG/wg_4.1_15_18.asp) exploratory discussions with the HSSC Vice Chair, Mike Prince (Australia) have been undertaken during the year. The Vice Chair remains very supportive of WG 4.1 assistance to the HSSC and its associated Working Groups in addressing hydrographic issues/standards.

The next step in this process, which is currently underway, is the formalisation of WG 4.1 involvement in the following HSSC Working Groups: S-44, S-100

S-44 is in need of review and the IHO is considering assigning this body of work to an existing HSSC Working Group rather than forming a new one. Either way, it has been agreed with the HSSC Vice Chair that WG 4.1 should be involved in the S-44 review process. This involves requesting that the Working Group Chair includes WG 4.1 as an Expert Contributor as part of any new or established HSSC Working Group assigned to review S-44. In this way WG 4.1 will be able to attend HSSC Working Group meetings as required, WG 4.1 being included on the Working Group distribution list to receive future requests to review the S-44; and take advantage of an established HSSC forum whereby WG 4.1 submissions can be formally tabled through the Commission 4 Chair.

The S-100 Working Group is already established within the HSSC. The Working Group's remit is to maintain, develop and extend S-100 Universal Hydrographic Data Model and S-99 Operational Procedures for the Organisation and Management of the S-100 Geospatial Information Registry. This is a very technical and specifically focused Working Group and it is questionable whether WG 4.1 could add any value in revising related standards.

However, the Working Group's other remit is to monitor the development of other relevant international standards. To this end, it is understood that sub Working Groups and Project Teams can be formed to undertake detailed work on specific topics under the S-100 Working Group Terms of Reference. For example, one sub-group is currently addressing under-keel clearance issues while another is looking at bathymetry.

Work in these specific sub group areas is where WG 4.1 can best contribute and the S-100 Working Group Chair will be requested to consider including WG 4.1 as an Expert Contributor in reviewing relevant hydrographic standards (eg. S-102).

– IBSC Involvement

WG 4.1 has reviewed the first draft of S-5A Standards of Competence for Category 'A' Hydrographic Surveyors. The consolidated Commission 4 submission was sent to the IBSC Secretariat on 6 April

2016. WG 4.1 is now recognised by IBSC as Expert Contributor and has been asked to be involved in the review of S-8 Standards of Competence for Nautical Cartographers.

Royal Institution of Chartered Surveyors (RICS) Support

WG 4.1 has been asked, and has agreed in principle, to contribute to the hydrographic component of the RICS International Property Measurement Standards (IPMS). FIG remains a key member of IPMS Coalition.

Planned Activities for 2017

- As Chair of Commission 4, I will be making a short presentation at the US Hydrographic Conference scheduled to take place from March 20-23, 2017 in Galveston, Texas USA.
- Working Group 4.3 - Blue Economy do hope to have a session during the upcoming ocean business in Southampton, UK from 4th to 6th April 2017.
- Arrangement are on the way to make a visit to some of the African Countries, promoting the benefit of hydrography for sustainable development in such countries. Awaiting feedback from the selected countries,
- Attend the FIG Working Week in Helsinki, 2017.

So far feedback from the working group chairs on publication have not being gotten, when received it will be sent to the secretariat.

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FIG Commission 5

Annual Report of Activities 2016

1. General

The Commission 5 2015-18 work plan consists of realising tangible outcomes for our already well-known FIVE missions, which are -

- FOCUS on modern technologies, technical developments and applications.
- FACILITATE and follow technical developments through collaborations with other FIG Commissions and like organisations.
- FOSTER and support research and development and stimulate new ideas in the fields of expertise represented within the commission.
- FORMULATE and formalise collaboration with manufacturers on the improvement of instrumentation and associated software.
- FIG EVENTS - present and promote the work of the Commission and its working groups through technical events and necessary media.

The year 2016 for Commission 5 has been primarily focused on the technical activities for the FIG operational surveyor. Our activities have been associated with the technical programme for the FIG 2016 Working Week in Christchurch. The *FIG/IAG/ICG/NZIS/UN-GGIM-AP Technical Seminar on Reference Frame in Practice* was held prior to and conjunction with the FIG Working Week 2016 on 1-2 May 2016 in Christchurch. We also convened a half-day presentation and discussion forum on reference frames as part of the *United Nations/Nepal Workshop on the Applications of Global Navigation Satellite Systems* held from 12-16 December 2016 in Kathmandu. The next Technical Seminar on Reference Frame in Practice will be held on 29-30 July 2017 in Kobe, Japan.

We have also continued our effective collaboration with our international sister organisations to promote and fulfil the FIG objectives and the FIVE missions of our work plan. Furthermore, the Commission 5 is preparing the *FIG Cost Effective Positioning and Geo Data Seminar* with Commission 3 in conjunction with “Geosiberia” in Novosibirsk Russia (19-21 April 2017). The Commission 5 will organise a *special Session of FIG Commission 5* at the well-known international exhibition and congress “Intergeo 2017” in Berlin, Germany (26-28 September 2017).

A summary of the working group activities in 2016 is as follows:

2. Working Groups

WG 5.1 – Standards, Quality Assurance and Calibration

Chaired by David Martin

The Standards, Quality Assurance and Calibration working group continues to support ISO activities through participation in ISO/TC 211 (Nic Donnelly) and ISO/TC 172/SC 6.

At present the FIG seat is vacant on the ISO/TC 172/SC 6 which concerns Geodetic and surveying instruments. This is unfortunate as there are a number of active and very pertinent items that are – or have been recently under review - ISO/DIS 9849: Geodetic and surveying instruments – Vocabulary; ISO/FDIS 16331-1: Performance of handheld laser distance meters; ISO/CD 17123-5: Field procedures for testing geodetic and surveying instruments -- Part 5: Total stations; and ISO/CD 17123-9: Field procedures for testing geodetic and surveying instruments -- Part 9: Terrestrial laser scanners. People with considerable experience and interest in surveying instrumentation and who might be interested in participating in ISO/TC 172/SC 6 should make themselves known.

Nic Donnelly is active within ISO/TC 211. ISO/TC211 is involved with Standardization in the field of digital geographic information. It aims to establish a structured set of standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the Earth. Key items include: an ongoing and important project aiming to establish a Geodetic Registry; a review of ISO/TS 19127:2005 Geodetic codes and parameters; and a potential review of ISO 19111:2007 Geographic Information – Spatial Referencing by Coordinates.

WG 5.2 – 3D Reference Frames

Chaired by Nic Donnelly

The highlight of the year was the 2-day Technical Seminar on Reference Frames in Practice held immediately before the FIG Working Week in Christchurch. With over 50 participants, this was the largest of these seminars to date and it attracted participants from a range of countries. Financial support from UNOOSA-ICG enabled the participation of delegates from developing countries, each of whom gave a short presentation on the reference frame in their country. A fuller report on this event is provided later in this report.

Continuing the theme of outreach and education, the working group convened a half-day session at the *United Nations/Nepal Workshop on the Applications of Global Navigation Satellite Systems* held from 12-16 December 2016 in Kathmandu. This session was chaired by working group member Dr Chris Pearson. It focussed on GNSS reference frames and reference station networks, with a particular focus on Asia and the Pacific. There were presenters from Egypt, Fiji, Mongolia, Pakistan, the Philippines, Thailand and Uzbekistan. Topics covered included: geoid modelling, analysing data at GNSS stations, precise timing using GNSS and use of GNSS in national reference frames. The presentations were followed by a discussion on the role of GNSS in providing and accessing national reference frames. Details of the programme can be found at <http://www.unoosa.org/pdf/icg/2016/nepal-workshop/PROGRAMME.pdf>

WG 5.3 – Vertical Reference Frames

Chaired by Kevin M. Kelly and Dan Roman

As WG5.3 is a new WG established at the 2014 FIG Congress in Kuala Lumpur, its focus to date has been on building membership and assessing level of participation by members. It's been slow to make significant progress but we hope to achieve at least a few goals of our ambitious work plan. To date WG5.3 has 10 members representing Africa, Asia, Central

America, Europe, New Zealand and U.S.A. WG5.3 maintains a good working relationship with the International Association of Geodesy (IAG).

Our first accomplishment was participation in the organization and delivery of a technical seminar on vertical reference frame as part of the WG5.2 *Technical Seminar on Reference Frame in Practice: Reference Frames, Datum Unification and Kinematics, Christchurch, New Zealand, 1-2 May 2016*. Also, although organized and put on by WG5.2, the technical program and suggested speakers for the *Technical Seminar on Vertical Reference Frames, Singapore, 27-28 July 2015* was largely designed by WG5.3.

Though ambitious, over the next two years WG5.3 hopes to address issues such as relationships and links between land-based vertical datums and ocean tidal datums, gravimetric geoid based national vertical reference systems (or datums), regional and global height system unification, ongoing deterioration of classical vertical control networks, usefulness of existing leveling data, and of course, GNSS heighting. Our aim is to provide educational tools so that geomatics practitioners can effectively understand and use VRF's in their day to day work or implement VRF's in their national jurisdictions.

WG 5.4 – GNSS

Chaired by Neil D. Weston and Suelynn Choy

WG 5.4 represented FIG at these conferences and gave the following presentations:

- “Status of multi-GNSS/RNSS and opportunities” at the FIG/IAG/ICG/NZIS/UN-GGIM-AP Technical Seminar on Reference Frame in Practice which was held in conjunction with the FIG Working Week 2016 on 1-2 May 2016 in Christchurch.
- “Augmenting GNSS Precise Point Positioning with Ionospheric Corrections: A Case Study in Victoria, Australia” at the 8th Multi-GNSS Asia Conference, which was held in November 2016 in Manila; and the International GNSS Conference, which was held in December 2016 in Sydney, Australia.
- “Augmenting GNSS Precise Point Positioning (PPP) for Improved Performance” at the United Nations/Nepal Workshop on the Applications of GNSS in Kathmandu, Nepal, from 12 - 16 December 2016.

An article titled “Uncovering common misconceptions in GNSS Precise Point Positioning and its future prospect” has been published in GPS Solutions in 2016. The paper provides an overview of the current performance of PPP as well as attempt to address some of the common misconceptions of this positioning technique —considered by many as the future of satellite positioning and navigation. Additionally the contribution was elected as FIG paper of the month in September 2016.

Some additional activities are mentioned in the following:

A. United Nation’s Global Geodetic Reference Frame

The Office of Coast Survey and the National Geodetic Survey, both Program Offices within NOAA, have been participating with the United Nation’s Global Geospatial Information Management (GGIM) efforts for just over two years now. Dr. Neil Weston

has been a team member of the Global Geodetic Reference Frame (GGRF) Working Group which wrote the UN Resolution. The GGRF Working Group is responsible for developing a Roadmap which describes how the UN will implement the geospatial components of the UN Resolution.

During the summer of 2016, the team rushed to complete the GGRF Roadmap before the next General Assembly. The final version was presented to the UN General Assembly in early August and describes how governments and geodetic/geospatial agencies can contribute to establishing and maintaining a Global Geodetic Reference Frame. As many of you know, having a geodetic infrastructure is critical for many geographic information systems, maps and nautical charts as well as for all positioning and navigation systems/applications. The National Geodetic Survey plays a critical role in establishing the National Spatial Reference System and considered one of the World's leaders in advancing the fields of geodesy and geoinformatics.

B. GPS International Working Group

Dr. Neil Weston attended a meeting of the GPS International Working Group (GIWG) towards the end of June which had a focus on two main topics as follows:

1. Status of the bilateral U.S.-China GNSS Dialogue
2. Status of the EU Mandate for Negotiations with the U.S. on access to the Galileo Public Regulated Service (PRS).

At the GIWG, they also discussed interagency participation on the U.S. Delegation, organization of expert support to the negotiations, and other issues that need to be addressed within the USG as we proceed towards eventual access to PRS.

C. Electronic Jamming

The Department of Homeland Security (DHS) Science and Technology Directorate (S&T) took proactive steps towards identifying and combatting electronic jamming threats by hosting the **DHS S&T First Responder Electronic Jamming Exercise**, a multi-agency operational exercise at the White Sands Missile Range in New Mexico from July 11 - 15, 2016. This exercise assessed the impact of these (GPS and GNSS) threats on first responder communications systems and mission response, and identify gaps in training, techniques and procedures. These meeting brought together participants and planning partners to share updates about the exercise planning and provide a forum to exchange ideas and questions. The Technical Working Group will be responsible for identifying, procuring and characterizing technologies for testing during the exercise as well as identifying the technical testing requirements and criteria for incorporation in the exercise scenarios. Dr. Neil Weston's role as part of this effort is strictly as a technical expert to provide guidance and some oversight.

WG 5.5 – Multi-Sensor-Systems

Chaired by Allison Kealy and Günther Retscher (IAG)

In this joint WG with IAG significant progress has been made in 2016 towards the use of multi-sensor systems for localization of mobile pedestrian users in combined out- and indoor environments. A field campaign for indoor cooperative positioning was conducted at the Department of Geodesy and Geoinformation at TU Wien, Austria, in the last week of September. The lab tests concentrated on the use of Wi-Fi in conjunction with UWB as well as inertial smartphone sensors for continuous positioning of a mobile user and/or a whole user group. The work will be continued in 2017 with a field campaign at the Melbourne University, Australia, in February and at the Ohio State University, USA, in the first week of October 2017. Indoor positioning will be the major focus in the first campaign whereas the use of UAV's in combined out- and indoor environments in the second, respectively.

Several WG members were attending the FIG Working Week in Christchurch. Further highlights were the participation at the ION GNSS, IGNSS Australia, IPIN conferences. The WG is actively involved and started to prepare with the sister organizations the upcoming Mobile Mapping Technology conference to be held in Cairo, Egypt, from May 6-8, 2017.

WG 5.6 – Cost Effective Positioning

Chaired by Leonid A. Lipatnikov

The working group WG 5.6 established in 2015 as a successor of the Special Study Group “Cost-Effective GNSS” deals with several policy issues including education on when to use which surveying instrument or software taking into account economic reasons, designing fit-for-purpose cost-effective surveying systems and support to decision makers for establishing cost-effective positioning solutions.

In 2016 WG 5.6 participated in the Interexpo GEO-Siberia, Novosibirsk, Russia, 20-22 April 2016 and in the FIG Working Week, Christchurch, New Zealand, 2-6 May 2016.

As of the end of 2016, the joint work with Neil D. Weston, Suelynn Choy and Volker Schwieger on a study devoted to GNSS Precise Cost Effective Positioning is going on. The paper to be published as a result of it is expected to lay a foundation for further developments and publications of the Working Group 5.6. Also organization of the forthcoming Cost Effective Positioning and Geo Data Seminar to be held jointly with FIG Commission 3 is in process. The seminar is seen as a good opportunity to bring producers of the survey-grade equipment, developers of precise low-cost solutions, surveyors, and other potential users together to shape a common vision for the future of cost-effective positioning technologies. The event is expected to attract new contributors to the WG 5.6 and strengthen cooperation in the sphere of development and promotion of cost-effective surveying solutions.

3. Cooperation, Seminars and Workshops

3.1 Cooperation with Other Commissions

During the 2016 period Commission 5 collaborated with other FIG Commissions as required. This cooperation primarily consisted of holding joint technical sessions (e.g. on Terrestrial Laser Scanning, Multisensor Systems and Earthquake Monitoring and GNSS Applications at Working Week in Christchurch) and meetings at FIG-related events as well as co-sponsoring symposia. For example, FIG Commission 5's alliance with Commission 6 to address contemporary issues relating to Terrestrial Laserscanning (TLS), deformation measurement,

calibration of instruments, long range measurement, satellite and terrestrial imagery measuring techniques. Additionally Commission 5 has actively participated at the *5th International Conference on Machine Control & Guidance* 5-6 October 2016 in Vichy, France and at the *International Workshop on Accelerator Alignment (IWAA)*, 3-7 October 2016 at the European Synchrotron Radiation Facility in Grenoble, France. These conferences is co-sponsored by Commission 6.

Volker Schwieger actively participated at the Commission 3 Workshop with the title *From Volume to Quality: Bridging the Gap for Spatial Data Infrastructure* 3-7 November 2016 in Iasi, Romania. Commission 5 is preparing the *Cost Effective Positioning and Geo Data Seminar* with Commission 3 (Spatial Information Management) in conjunction with in Novosibirsk, Russia (20 April 2017).

3.2 Cooperation with Sister Organisations

Commission 5 has continued to maintain a successful working relationship with the International Association of Geodesy (IAG), the ION and the ISPRS. This was achieved by convening joint Technical Seminars on Reference Frames in Practice, technical sessions and holding joint administrative meetings on significant issues. Additionally multidirectional exchange on Seminars and Symposia are practised e.g.

During 2016, the following FIG/IAG/ICG/NZIS/UN-GGIM-AP Technical Seminar on Reference Frame in Practice was held with sister organisations in Christchurch, New Zealand (1-2 May 2016).

Report on FIG/IAG/ICG/NZIS/UN-GGIM-AP Technical Seminar on Reference Frame in Practice on 1-2 May 2016 in Christchurch, New Zealand

The Technical Seminar on Reference Frames in Practice (RFIP) was held for the fourth time. The first Technical Seminar on RFIP was held in 2012 in Rome. This time it was held prior to the FIG Working Week on 1-2 May 2016 in Christchurch, New Zealand. There was a particular focus on deformation modelling and datum unification, which reflects geodetic priorities for the Asia-Pacific region. Many of the participants come from countries situated on the Pacific “ring of fire”, where there is a strong need to model deformation to maintain accurate spatial references. The theme of datum unification reflects the desire of Pacific Island nations, amongst others, to work more closely together to share knowledge and resources for their mutual benefit. This complemented a previous seminar, which was held in Singapore 2015 focused on vertical reference frames and the seminar in Manila in 2013, which focussed on 3D frames.

The workshop was organised by FIG Commission 5, in conjunction with the International Association of Geodesy (IAG), the International Committee on GNSS (ICG), the United Nations Initiative for Global Geospatial Information Management for Asia-Pacific (UN-GGIM-AP) and the New Zealand Institute of Surveyors (NZIS). Primary organisers were Nic Donnelly (New Zealand) and Li Zhang (Germany), both members of FIG Commission 5.

There were 53 participants, including presenters, from around the world. Countries represented were Australia, Bulgaria, Fiji, Germany, Indonesia, Japan, Nepal, Malaysia, New

Zealand, the Philippines, Poland, Russia, Singapore, Sweden and the United States. Attendees represented a mix of academic, government and commercial institutions.



Group photo of attendees

The seminar was well supported by all three sponsors, Land Information New Zealand, Leica and Trimble, in terms of both financial support and attendance. The ICG provided financial support to several participants from developing nations. The sponsorship enabled registration fees to be kept to a low level at 150 euro for the two days, including the dinner.

The final technical programme and the presentations are available on the FIG website at <http://www.fig.net/fig2016/commission5.htm>. Copies of the geodetic software discussed were included on memory sticks provided to each of the participants.

3.3 Cooperation with UN

As mentioned partly in 3.2 strong collaboration is also realized with different branches of the United Nations (UN): the United Nations Global Geospatial Information Management – Asia Pacific (UN GGIM-AP) and the International Committee on GNSS (ICG). The joint Technical Seminar was held in May in Christchurch (see 3.2). Additionally the UNOOSA ICG held its annual meeting on 6-11 November 2016 in Sochi, Russia. FIG Vice President (ex-Commission 5 chair) Mikael Lilje represented FIG at the meeting. A report can be found in http://www.fig.net/news/news_2016/2016_11_icg.asp.

Also the FIG/IAG/ICG/NZIS/UN-GGIM-AP Technical Seminar on Reference Frame in Practice on 1-2 May 2016 in Christchurch is a good example for UN-cooperation, here on the technical level. As mentioned before these Seminar series will be continued in the future.

Additionally at the FIG Working Week 2017 in Helsinki, a special technical session on the implementation plan connected to UN Resolution on Global Geodetic Reference Frame (GGRF) will be organised and will include presenters from the e.g. UN GGIM, IAG, IGS.

3.4 Cooperation with ISO

There has been ongoing interaction with ISO/TC211, the geographic information technical committee of ISO. Nic Donnelly is the Special Liaison from FIG to ISO/TC211. Work of particular interest to Commission 5 includes the review of ISO19111, spatial referencing by coordinates, the ongoing work on the Geodetic Registry and ISO19161, the proposed new standard for the International Terrestrial Reference System. The update to ISO1911 is focussed particularly on better accounting for kinematic frames (time-dependent coordinates) and geoid-based vertical datums. It is being revised in conjunction with the Open Geospatial Consortium (OGC), as is the case with many ISO standards, to ensure that the revised standard represents a wide industry view.

4. Events

2016

A summary of the Commission 5 activities at events in 2016 can be found on our website <http://www.fig.net/commission5/index.htm>

2017

In 2017 Commission 5 will endeavour to send representatives to the following conferences:

- UAV-Seminar, 09-10 February 2017, Stuttgart, Germany
- GeoSiberia, 19-21 April 2017, Novosibirsk, Russia
- FIG Cost Effective Positioning and Geo Data Seminar, 20 April 2017, Novosibirsk, Russia
- FIG Working Week 2017, 28 May - 01 June, 2017, Helsinki, Finland
- UN-GGIM-AP/ IAG/FIG Technical Seminar on Vertical Reference Frames in Practice, 29-30 July in Kobe, Japan
- Special Session of FIG Commission 5 at Intergeo 2017, 26-28 September 2017, Berlin, Germany

5. Communication and Publications

Commission 5 have issued numerous reports and periodic newsletters to our delegates. These information can also be found on websites -

- <http://www.fig.net/organisation/comm/5/index.asp>

Volker Schwieger
Chair

Chair of FIG Commission 5
January 2017

FIG Commission 6 – Engineering Surveys

Annual report

2016–2017

Introduction

The mission of Commission 6 Engineering Surveys is the implementation of innovative technologies and the modernization of the engineering surveys processes of data acquisition, processing, interpretation and quality control but also the epoch by epoch data management and analysis of the engineering object condition changes as important part of the maintenance and emergency situation alert. One of the key subjects in our mission is to promote, develop and implement new processing algorithms and data filtering for optimization the surveying data pre-and post-processing.

The structure of Commission 6 includes 4 working groups profiled in specific areas of the engineering surveying, data acquisition and analysis. These are:

- **Working Group 6.1** – Deformation Monitoring and Analysis (Chair Prof. Dr. Wolfgang Niemeier (Germany))

This working group is focused on the deformation studies in the engineering surveying and on the support of the multidisciplinary collaboration between surveying, structural and geotechnical engineers to understand the behavior of structures and geotechnical objects

- **Working Group 6.2**- Engineering surveys for design, constructive works and exploitation of buildings and communication infrastructure (Chair Joel van Cranenbroeck (Belgium))

This group is working on the task to support the design and usage of real-time deformation monitoring solutions and their systems for awareness during the constructive and exploitation period of an infrastructure object, as well as the combination of the ‘Smart technology solutions’ with the objectives of the engineering surveying for optimization the processes of train and automobile control system, and traffic management.

- **Working Group 6.3** - Sensor fusion, data acquisition and processing techniques for moving measuring complexes (Chair Prof. Vladimir A. Seredovich (Russia))

The focus on this working group is to support and promote the understanding of the principles and the applying of multi-channel systems for engineering surveying task, for surface scanning and investigation in areas with no permanent GNSS availability. To increase the understanding for the application of moving measuring complexes and real-time data analysis for the purposes of the engineering surveying.

- **Working Group 6.4** - Wide Area Engineering Surveys for Monitoring, Features Determination and Environmental Management (Chair Rémy Boudon (France))

This working group is focused on the integration of Mobile laser scanning systems and Airborne Systems (manned or unmanned) for the precise surveying, monitoring and inventory documentation for the railway and road sectors, power line infrastructure, oil and gas pipelines, waterways management.

Important meetings and outcomes 2016-2017

FIG WW Christchurch, New Zealand 02-06 May 2016

- Commission 6 had 5 Technical sessions and one joint session with Commission 5. The technical sessions were divided with average 5 presenters per session. The papers registered to commission 6 and the presentations held during the sessions covered all key topics and focus work on the Commission6 working groups in the area of engineering surveying. The technical sessions covered up-to date topics and problems, which the engineering surveyors often meet in their practice. There were presented outcomes from realized projects with applied classical and new-age technologies and methods for measurement, monitoring and deformation analysis in the scope of the standard engineering projects, disaster prevention and recovery, early-alarm systems, autonomous machines.
- There were 26 presenters from: Germany, France, Austria, Sweden, United Kingdom, Norway, Italy, New Zealand, Malaysia, Indonesia, Australia, China PR, Romania, Philippines. Attendees of the sessions and presenter represented a mix of academic, government and private practice institutions. The big number of attendees maxes. 85 and average 65 per session, registered the interest to, the Commission6 work and technical sessions. Each presentation was followed by discussions and exchange of information contributing to further development of the presented work.
- In the annual meeting
- were presented:
 - the outcomes from the Commission6 work 201/2016
 - the forthcoming symposiums and workshops 2016/2017
- Were outlined the task and new ideas for contribution to the scope work of Commission6 for implementation of new technologies and modernization of the engineering surveys process.
- During the working week and on the annual meeting new members joined to Commission6 and expressed desire and ideas for contribution to the work of Commission6 and FIG.

Commission 6 “Symposium on engineering geodesy, 20-22.05.2016. in Varazdin, Croatia”.

Topics:

- Acquisition, processing and management of topometric data and all related information throughout the life cycle of a project (at construction site).
- Quality control and validation for civil engineering constructions and manufacturing of large objects (method statements).
- Deformation monitoring, analysis and interpretation, measurement of dynamic loaded structures (general).
- Prediction of deformation and movements in engineering projects, mines and areas of geological hazard such as landslides, subsidence etc.
- Automatic measuring systems, construction and industry and multi-sensor measuring systems.
- Real-time deformation monitoring, analysis and interpretation, measurement of time series, measuring and analyzing the load caused the stress and strain response of the engineering structures.

Forthcoming meetings and outcomes 2016-2017



- 7th.INGEO2017 will be an important event to our community, let us meet next October, from 18th to 20th, in Lisbon, at the Congress Centre of LNEC.
The longevity of this event shows the importance of the theme - monitoring and safety evaluation of civil engineering structures - in our professional group.
INGEO has been, since its beginning, organized by the Department of Surveying of the Faculty of Civil Engineering of the Slovak University of Technology with close cooperation and support from FIG Commission 6. In 2017 INGEO will be organized together with the National Laboratory for Civil Engineering (LNEC) from Portugal. For this reason, INGEO2017 brings together two communities: surveyors and civil engineers.

Cooperation with other commissions ad organizations

- Cooperation with ISM (International Society for Mine Surveying)
- Cooperation with ICOLD **International Commission on large dams**

FIG WW Christchurch, New Zealand 02-06 May 2016 COMMISSION & SESSION



Report to the 40th General Assembly
FIG Working Week 2017, Helsinki, Finland

FIG Commission 8 – SPATIAL PLANNING AND DEVELOPMENT

Report of Activities 2016

1. General

Terms of Reference

- Regional and local planning structure
- Land use planning and implementation control
- Human settlement issues in spatial development
- Natural resources utilization and stewardship
- Strategy for environmentally sustainable development
- Public – Private –Partnerships
- Rural development
- Disaster risks management and resilience
- Inter-relationship between and amongst Commissions

The mission of Commission 8 is to unpack linkages between planning, Sustainable Development, natural resources utilization for economic growth while advancing social equity and resilience.

2. Working Groups

The following working groups formed the operational basis for the administration of Commission 8 and its programs;

Working Group 8.1 – Disaster recovery, risk management and resilience planning

Working Group 8.2 – Stewardship for water, land and forest as primary resources for development

Working Group 8.3 – Human settlement policies and implementation

Working Group 8.4 –Resilient Urban Development

Working Group 8.5 – Rural development and land governance

3. Cooperation

1. Dutch Kadaster : Commission 8 was part of the program of a symposium held in the Netherlands on land consolidation
2. GLTN: The Chair was invited to participate in a program held in Dakar on transparency in land administration in Africa.
3. Chartered Institute of Water & Environmental Management: **(CIWEM) – United Kingdom:** The commission has had a good relationship with CIWEM leading to the creation of a special session in Christchurch, New Zealand in 2016.

4. Events

1. Capacity training in transparency in land administration in Africa
2. 6th International Summer School in Italy
3. International symposium on land consolidation in Amsterdam, Holland

5. Communication and publications

No communication or publication emerged from the Commission

6. Other highlights

Minutes of the Commission meeting in New Zealand: below is the minutes of the annual commission meeting held by members.

FIG WW Christchurch, 4 May 2016, in Lady blossom 1, 17:30

Agenda

1. Restructuring commissions
2. Working groups activities
3. Upcoming events
4. Succession plan
5. Commission dinner

Ad 1. Restructuring commissions

Reflecting on the proposed restructuring of commissions, reducing the number of commissions from 10 to 4, several issues popped up during the discussion.

Overall, the proposal lacks a sound and thorough argumentation of the proposed adjustments to the commission structure. It is not clear why a number of four commissions is mentioned. A real risk is the work load of the chair will be too high. The number of four commissions seems not have been derived from a underlying vision, for instance based on the question what are the relevant developments, also regarding the 17 goals on sustainable development of the UN.

The inclusion of current commission 4 (hydrography) seems to lack a grounded connection to the other topics of the proposed new commission. The added value of combining hydrography with spatial planning and management topics is not clear. Merging 'Valuation and the Management of Real Estate' and 'Construction Economics and Management' with commission 8 seems content-wise more logical. No further explanation on which topics of specific commissions is given in the task force report. For example, it is unclear in which proposed commission the topic of land consolidation and land readjustment will be positioned. Both commission 7 and 8 are active on this topic. It seems logic that this topic will move to the proposed commission on spatial planning, but it is not yet decided. The report mentions that chairs of the commission have to decide. Then, the report of the task force would have been more valuable when these considerations were taken into account deciding on the restructuring of the commissions.

With respect to the proposed title of the new commission, we suggest to adjust 'Spatial Planning, Land, and Marine Management' into 'Spatial Planning, Land and Water Management'. Marine refers to salt water, but fresh water should be included as well. The adjusted title encompasses both.

The chair Kwame Tenadu has sent his concerns by email.

Ad 2. Working groups

Working group 8.1 - Disaster recovery, risk management and resilience planning (Phil Rhodes)

Not present. No updates received.

Working group 8.2 Stewardship for water, land and forest as primary resources for development (Yvonne O. Sowah and Bruce Keith)

A special session on 'disaster recovery and planning and building resilient infrastructure for the future' was organised during the working week in Christchurch.

There was a session on the challenges for land and water resources to meet the global food production needs of 2050. This included an Overview paper plus two on Precision Agriculture and the delivery of water use efficiencies.

During the FIG working week in Helsinki 2017 technical aspects of water management will be attended. Also environmental aspects of forest industry will be worked out.

Working group 8.3 Human settlement policies and implementation (Peter Laarakker)

Unfortunately, Peter Laarakker was not able to come to Christchurch because he will retire soon. To assure continuance of activities in this working group, Marije Louwsma, will team up with Peter.

Update of activities from Peter¹:

I spoke to Robin McLaren from commission 7 (working group on crowdsourcing) to explore possibilities for a common vision on informality. Furthermore, a meeting with Liza Groenendijk from commission 2, was held on informal professionals.

Working group 8.4 Resilient Urban Development (Frank Friebecke)²

Policy issues

- Promoting sustainable urban development with the surveyors' variety of skills and knowledge (e.g. geoinformatics, land management and development)
- Strengthening urban resilience and adapting cities to the impacts of climate change
- Analysing the role of society and culture in urban sustainability
- Supporting the promotion of best practices in sustainable urban development
- Encouraging international collaboration and driving exchange on resilient urban development

Specific project(s)

- Analysing the role of the Surveyor in dealing with urban sustainability and climate change
- Exploring how cities can cope with the demands of building urban areas that are environmentally sustainable and support both economic and social development

Workshop(s)

- Urban development in developing countries (intended for a regional FIG Conference in Africa, Asia or South America)
- Managing disaster risk and the impacts of climate change with resilient urban development (Christchurch 2016 und Helsinki 2017)

Publication(s)

- To produce a working document and a program of action as outcomes from the workshops above

Timetable

- 2016: Discussion via email or at a regional FIG Conference
- 2017: Round table session at FIG Working Week 2017 in Helsinki
- 2017 by end of year: Final report

Beneficiaries

- United Nations, World Bank, World Urban Forum, FIG professional Associations and member organizations, NGO'S, Researchers.

¹ Report received by email

² Report received by email

Commission 9 – Valuation and the Management of Real Estate

Annual Report 2016

1. Title

Valuation and Management at the Core of Successful Land Policy

2. Terms of Reference

- Valuation, being the estimating of value of all kinds of real estate by valuers and appraisers for various purposes, including market value, property taxation, eminent domain, investment, redevelopment and refurbishment, and for both public and private purposes;
- Investment in real estate, investment planning and real estate investment vehicles;
- Real estate finance, development finance, land use feasibility planning, block chain;
- Real estate economics, markets and market analysis;
- Management of all kinds of real estate at all levels;
- Asset management for corporate private and public sectors;
- Management of the use of buildings to ensure optimum benefits to occupiers.

3. Mission Statement

The mission of Commission 9 is:

- To advance the professional practice of valuers and property managers working in all areas of real estate valuation and management;
- To research and publish “best practice” for the benefit of valuers and property managers in different jurisdictions and sectors of the industry. This will benefit of the surveying community and improve our services to the wider public;
- To facilitate and generate the exchange of information, knowledge and experience between surveyors for the benefit of the profession, our clients and the wider public;
- To publicise and promote the work of surveyors to the public, particularly to young people, governments and non-government organisations and to enhance the value and perception of the value of surveyors and the services they can deliver, especially in support of the global sustainability agenda and the Millennium Development Goals;
- To co-operate and work with fellow surveyors in all specializations of the profession to further the broader objectives of FIG.

4. Themes

This work plan focuses on three highly relevant themes, Property Taxation, Real Estate Market Policy Frameworks, and Valuation Methods and Standards.

Working Group 9.1 will expand the debate surrounding the United Nations published the *Policy Framework for Sustainable Real Estate Markets* booklet. The aim of Working Group 9.1 is to discuss, analyse and expand upon the 10 principles within this text, to allow for greater understanding and applicability in their implementation. This should benefit all interested actors, government organizations, and non-government organizations.

Working Group 9.2 along with Commission 7 will address block chain financial technology as it relates to risk management, valuation, and access to credit within this rapidly evolving sector. Financial technology is evolving at a rapid pace with land and credit markets to be affected greatly. A greater understanding of block chain financial technology will aid government and non-government actors, as well as the financial and insurance sectors. Efficiency and security gains could be immense and affect how land administration functions, allow greater access to credit for vulnerable groups, and change how risk in the future is weighted, perceived, and analysed.

Round Table Discussions 9.3 will identify the commonly used standards in different markets and study the valuation methodologies adopted. Local actors will share and discuss templates and techniques used so that the industry can broaden its base of knowledge, enhancing the ability of practitioners to support their local economies and professional organizations.

Working Group 9.4 explores adding a valuation component to extend the scope of LADM from a fiscal perspective to provide an information model that could be used to construct information systems for mass property valuation. This has the benefit of a more broad based and coherent LADM model handling a very wide range of functions and increasing efficiency of the land markets through consolidation of administrative real estate functions .

All of the Working Groups and Round Tables have the goal of expanding the knowledge bases and skill sets of our professional organizations, their individual members, national governments, non-government and international aid organizations, and by extension the global economy.

5. Working Groups

Working Group 9.1 – Expanded Policy Framework for Sustainable Real Estate Markets

In 2010, the United Nations published the *Policy Framework for Sustainable Real Estate Markets* booklet. This document provides a short discussion of 10 Principles and related guidance for the development of a country's real estate sector. The aim of Working Group 9.1 is to discuss, analyse and expand upon these 10 principles, to allow for greater understanding and applicability in their implementation. In effect, this Working Group will broaden the discussion surrounding the individual 10 principles to include more specific details, as well as outline possible economic and social impacts. This should benefit all interested actors, government organizations, and non-government organizations as it relates to regulating, improving or developing a sustainable national real estate market.

In 2015 the early data gathering and analysis of the Policy Framework had begun. In 2016, comprehensive analysis and round table discussions at the FIG Working Week expanded applicability and transparency of these Framework components, and in 2017 the remainder of 10 principles will be examined with further roundtable analysis.

Working Group 9.2 – Valuation and Real estate management through Fin-tech

This working group focuses on fourth generation technologies used by the World Bank’s approach to land engagement. Blockchain technology has been hailed by custodians as being the future of the real estate management industry with potential to streamline processes such as land and property registration, valuation of property and many more digital actions. This could increase efficiency throughout the operation of land markets, impacting both both public and private purposes.

This Working Group has aimed to ‘define’ the technology in its applications in the real estate management and valuation arena. The group also plans to draft a list of open items, questions and concerns regarding the adoption of blockchain technology that will act as a reference guide. The working group also aims to launch workshops with financial institutions to illustrate the impact of blockchain on trade processes in order to capture the views of institutions rather than ‘convince’ them of blockchain implementations. As a result of these consultations, the working group also plans to launch a central repository of information on the technology towards investment planning and real estate investment vehicles through better and more efficient valuation tools in developing countries and informal markets.

This analysis has begun exploring these factors and begun coalescing information throughout 2016. In 2017 and 2018 this information will be gathered and analysed further with a publication presenting our findings as the final outcome.

Round Table 9.3 – Valuation Methods and Standards Worldwide

There is an abundance of valuation report templates and techniques for the analysis of differing property types. However, few valuation professionals have access to more than a handful of these templates, limiting their ability to creatively address a specific appraisal problem.

In 2015 templates were considered and gathered for analysis in 2016. At the 2016 FIG Working Week, roundtable discussions will bring together real estate professionals (valuers, managers, brokers, state and private ownership organizations) to share templates and techniques used to value and analyse specific property types.

Working Group 9.4 - Development a Valuation Component for the ISO 19152:2012 Land Administration Domain Model

Valuation and taxation of land and immovable property is related to the many processes of land management for achieving towards Sustainable Development Goals. The political aspects of these processes are critical, but this research addresses the information contents/ systems aspect, and focuses on development of an international data standard for the aforementioned valuation inventories or databases.

There are several international standards related to the procedural and measurements aspects of immovable property valuation. However, there is no internationally accepted standard that defines the data content or semantics of valuation databases, such as the entities, attributes/properties, relationships, and constraints of the information model.

The ISO LADM presents a conceptual schema for the specification of property units and their legal and geometric characteristics, and relates these datasets with other property related datasets. It defines semantics of land administration systems mainly focusing on legal requirements, but also provides a formalism, which allows for an extension that responds to fiscal requirements.

The aim of this Joint Working Group is to define the semantics of valuation information maintained by public authorities especially for recurrent taxes on immovable property, and to extend the scope of LADM from a fiscal perspective to provide an information model that could be used to construct information systems for property valuation. Work has proceeded within 2016 along these lines with Commission 7 & 9 partnering to advance the LADM models over the coming years.

6. Co-operation with Other Commissions and organisations

Commission 9 will support and contribute to FIG task forces, Commission 7 (closely with WG 9.4) and, in particular, to the Property Markets Task Force, the Young Surveyors Network, the United Nations organizations, UNECE, WPLA, REAG, FAO, UNHABITAT, GLTN, ECE, and the World Bank. It is envisaged that such international organisations will be particularly interested in the work of the Working Group 9.2 and 9.4. The possibility of joint events was investigated with a Joint Commission 7 & 9 Workshop planned for Romania in September and Columbia in December.

7. Co-operation with United Nation Organisations, Sister Associations and other Partners

Commission 9 is co-operating with, WPLA, UNECE, GLTN, the World Bank and UN-HABITAT on Commission 9 related issues.

Over the coming years, Commission 9 will investigate co-operation opportunities with a range of relevant international organisation, including International Association of Assessing Officers (IAAO), Centre for International Private Enterprise (CIPE), the International Real Property Foundation (IRPF), and the Appraisal Institute. Communication and cooperation is underway on a range of areas of common concern and discussions are ongoing regarding areas of future cooperative alliances.

Mr. Steven Nystrom
Chair of Commission 9
E-mail: nystrom@newstreamcompanies.com

**Report to the 40th General Assembly
FIG Working Week 2017, Helsinki, Finland**

**FIG Commission 10 – CONSTRUCTION ECONOMICS AND
MANAGEMENT**

Report of Activities 2016

1. General

Commission 10 intends to leverage on FIG's network of members organisations to promote the profession of QS/CE and PM/CM which are either non-existent or lacking in many countries especially the under-developed and developing countries. There are also developed countries that do not have the profession of QS/CE or PM/CM. Specific activities aimed at these countries include development of standards for construction and cost management and contribution to appropriate Continuing Professional Development programmes.

In 2016 we see a significant progress in the development of the International Construction Measurement Standard (ICMS) which will see a signification harmonisation of the practice of construction cost reporting across the globe in the years to come.

2. Working Groups

2.1 Working Group 10.1 – International Construction Measurement Standards

In the last 12 months significant progress has been achieved in the development of ICMS. The Standard Setting Committee (SSC) which I chair held regular meetings via tele-conferencing with its first physical meeting held on 5-6 March 2016 in Brussels hosted by the European Commission. Much had been achieved at this meeting with the framework for the ICMS established and the drafting group was ready to go away to prepare the first draft of the ICMS. The first draft of ICMS was completed and circulated to the members and friends of the ICMS Coalition for comment in August 2016. With the comments received the SSC proceeded to finetune the draft.

The final draft of ICMS was completed at the end of October 2016. Trustees of ICMS and the members of the SSC met in London on 10 November 2016 and the final draft of the ICMS was launched for public consultation at a ceremony held at RICS Headquarters at Parliament Square, London. The dateline for receiving comments for the final draft is 15 January 2017.

The SSC intends to further finetune the final draft with the comments received and publish for the final public consultation in Mid-March 2017. The Trustee of ICMS intends to publish and

launch the ICMS at the annual congress Asia-Pacific Association of Quantity Surveyors (PAQS) to be held in Vancouver, Canada from 24 to 26 July 2017.

With the publication of ICMS we hope that there will be consistency in reporting of construction cost across the entire world.

2.2 Working Group 10.2 – Building Information Modelling

Building Information Modeling (BIM) is changing the way how surveyors work, think, collaborate and make money. Using and sharing multidimensional digital representations of buildings are the driving forces for the digitalization of our work. This affects many tasks surveyors and GIS professionals perform, e. g. cost estimation, GIS analysis, engineering surveying, construction work, land management and facilities management.

Following great interest on the development and application of BIM at the Kuala Lumpur Congress (2014) and the last two Working Weeks in Sofia (2015) and Christchurch (2016), the BIM Working Group has decided to organise a Pre-WW Workshop in Helsinki on 28 May 2017.

The scope of the workshop will cover:

- Teaching theoretical background of the BIM method (concepts, workflows and standards).
- Best practice presentations from large projects and SME (from surveyor's point of view).
- Presentation of the latest software (surveying, integration and collaboration with BIM, CAD, GIS).

Our target audience are professionals from engineering and surveying companies, land administration agencies, academics from different countries and also students and young professionals from the FIG Young Surveyors Network.

2.3 Working Group 10.3 – Education and Research

The profession of QS/CE is new or non-existent in some countries, both developed and developing countries. Commission 10 hopes to use its network and platform to influence policy makes to consider the use of QS/CE for developmental projects and as such the need to build competencies and human capital in this specialised field.

Commission 10 has developed the core competency standard for the QS/CE profession. The draft competency standard will be deliberated at the Working Week in Helsinki. Once agreed the standard will be presented to the Council for publication.

3. Cooperation

Within FIG, Commission 10 enjoys good co-operation from other commissions particularly Commission 1 on Professional Practice, Commission 2 on Professional Education, Commission 6 on Engineering Surveys and Commission 8 on Spatial Planning & Development.

Externally Commission 10 has excellent collaboration with other professional organisations involved in QS/CE, PM/CM, such as RICS, ICEC, PAQS, CEEC, AAQS, PMI and other similar organisations.

4. Events



1. Pre-WW Workshop entitled “BIM for Surveyors” to be held on 28 May 2017 in Helsinki,
2. Launching of ICMS at the PAQS Congress in Vancouver, Canada from 24 to 26 July 2017.

5. Communication and publications

As mentioned above, subject to approval by the Council we intend to publish the FIG Core Competency Standard for Quantity Surveyors and Cost Engineers.

6. Other highlights

See photographs attached below:

	
<p>Conferment of Honorary Doctor of Science to Chair of Commission 10 (February 2016)</p>	<p>ICMS Standard Setting Committee meets at the European Commission, Brussels (March 2016)</p>

	
<p>Commission 10 Technical session at 2016 WW in Christchurch (May 2016)</p>	<p>Standard Setting Committee meeting in London (November 2016)</p>
	
<p>Launching of Draft ICMS for public consultation in London (11 Nov 2016)</p>	<p>Trustees and SSC members of ICMS Coalition (November 2016)</p>

FIG STANDARDS NETWORK REPORT TO THE GENERAL ASSEMBLY

David Martin 5 April 2017

Standards Network Terms of Reference:

The Standards Network was formed in 2002. It works within Commission 1 and consists of representatives from each of FIG's Commissions. The terms of reference of the Network set out in the FIG Guide on Standardisation are:

- Building and maintaining relations with the secretariats of standardisation bodies,
- Proposing priorities on FIG's standardisation activities, including advising the Council on priorities for spending,
- Setting up necessary Liaison relationships with standardisation bodies,
- Ensuring that lead contacts to Technical Committees etc are in place,
- Maintaining an information flow on standardisation to FIG members, including through the FIG website, and more directly to relevant Commission Officers,
- Maintaining this Guide, and related material on the FIG website,
- Working with other NGOs, within the framework of the MOUs signed by the Council,
- Advising FIG's officers and members on standardisation activities as necessary.

Key Activities

The Standards Network covers several key activities. At different periods, the commissions are more or less active or impacted by Standards. Some activities such as ISO 19152 on the Land Administration Domain Model (LADM) or the International Measurement Standard of Property (IPMS) are clearly linked to a specific commission –Commission 7 for the LADM and Commission 9 for IPMS. While other Standards issues relate to, or implicate, or could potentially implicate several commissions. The ISO/TC 211 concerning Geographic Information/Geomatics is an example.

Below is a summary of current Standards activities in FIG.

ISO/TC 211 Geographic Information/Geomatics

Nic Donnelly of Land Information New Zealand (LINZ) is the lead liaison from FIG to ISO/TC 211. ISO/TC211 is involved with Standardization in the field of digital geographic information. ISO/TC 211 also appoints a liaison to FIG, a role which is currently held by Mr Larry Hothem, of the United States.

Nick Donnelly reports:

ISO/TC211 aims to establish a structured set of standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the Earth. These standards may specify, for geographic information, methods, tools and services for data management (including definition and description), acquiring, processing, analyzing, accessing, presenting and transferring such data in digital/electronic form between different users, systems and locations. The work links to appropriate standards for information technology and data where

possible, and provides a framework for the development of sector-specific applications using geographic data.

Key items currently under consideration are: a Geodetic Registry, a Review of ISO/TS 19127:2005 Geodetic codes and parameters, and a potential review of ISO 19111:2007 Geographic Information – Spatial Referencing by Coordinates

Liaison Involvement

There were two meetings of the ISO technical committee in 2016; Tromsø (June) and Redlands (December). The next meeting is in Stockholm, 29 May – 2 June 2017.

In general the role of the liaison is to identify work items of interest and alert interested parties, who may then get directly involved through their national standards body.

TC211 Changes

From the start of 2017, the TC211 Secretariat is based in Sweden, through the Swedish Standards Institute. The Chair is Christina Wasström from Lantmäteriet, the Secretary is Therése Andrén from the Swedish Standards Institute and the Assistant Secretary is Christine Allanson from the Swedish Standards Institute.

The Secretariat has previously been held by Norway since the establishment of TC211 in 1994. Olaf Østensen from the Norwegian Mapping and Cadastre Authority has chaired the Committee since that time, with Bjørnhild Saetøry from Standards Norway as Secretary. Their service to TC211 was acknowledged during the Redlands meeting.

Key Work Items of Interest to FIG

Geodetic Registry

This project aims to establish a registry for geodetic codes and parameters. Software has been developed in compliance with ISO19127: Geodetic Register and the Norwegian Mapping Authority will host the software on their servers.

FIG was invited to nominate someone for the Control Body of the registry. The Control Body has responsibility for the management and strategic direction of the registry, on behalf of ISO/TC211. Nic Donnelly is the principal representative, with Volker Schwieger of Germany as alternate. Larry Hothem, who is also active in FIG, is Vice-Chair of the Control Body, which is chaired by Mike Craymer of Canada.

The work of the Control Body is currently focused on adding the major global, regional and national reference frames to the register, which is not yet publically available.

Review of ISO 19111:2007 Geographic Information – Spatial Referencing by Coordinates

This standard describes coordinate systems, coordinate reference systems and datums and the relationships between them. It also describes coordinates and the operations that may be carried out on them.

A review of this standard is underway in conjunction with the Open Geospatial Consortium (OGC). Amongst other things, this review aims to update 19111 to better handle modern datum such as

kinematic datums and those using the geoid as a reference surface. A committee draft is due in May 2017.

ISO 19161 Geodetic references - Part 1: The international terrestrial reference system (ITRS)

This is a new standard that will formalize the ITRS, the global system upon which all modern positioning and mapping systems (such as GNSS) are based.

A working draft is due in mid-2017.

ISO 19152:2012 Land Administration Domain Model (LADM)

This Standard grew out of the Commission 7 work on the Core Cadastral Domain Model and was accepted into the ISO/TC 211 work programme in 2008. The Land Administration Domain Model (LADM) ISO 19152:2012 Edition 1 was published in 2012. It facilitates the efficient set-up of land administration and can function as the core of any land administration system. LADM is flexible, widely applicable and functions as a central source of state-of-the-art international knowledge on this topic. LADM is one of the first spatial domain standards. With a view to the future, trends in the domain and the maintenance of the standard are now under discussion.

Chrit Lemmen reports:

Several events in relation to LADM have been organised:

- UN GGIM Expert Group on Land Administration, Delft, The Netherlands, 14 – 15 March 2017, by invitation, I will represent FIG, LADM is on the Agenda
- FIG/GLTN/ISO Preparatory meeting on LADM Edition II, Delft, The Netherlands, 16 March 2017
- OGC meeting on operational standards for LA, Delft, The Netherlands, 17 March

Followed by:

- World Bank Land and Poverty 2017, Washington, US, 20 March: Pre Conference session on Standards

This latter meeting in Washington is a high level meeting – with a very important role for FIG as knowledge organisation (on functionality related to operational standards).

ISO TC 211 has agreed with the development of Edition II of LADM. Some key proposals for the extension this edition include:

- Further modelling of LADMs with more detailed classification of the legal part of the LADM is proposed for inclusion in LADM Edition II including interests in land, 'right', 'restriction' and 'responsibility' (RRR) classes as well as informal rights descriptions introduced in the Social Tenure Domain Model (STDM).
- An extension module proposing to extend the scope of LADM with a fiscal perspective to provide a data model that could be used to construct information systems for immovable property valuation and taxation, and offer a data exchange option. The proposal provides a common basis for governments to direct the development of local and national databases, and for the private sector to develop information technology products.
- LADM in support to Marine Cadastre: the role of IHO and a new standard S121 – Maritime Limits and Boundaries – will be discussed.

- More explicit relations with BIM (IFC), GeoBIM, CityGML, IndoorGML, InfraGML, LandXML, etc. implying a relation to the lifecycle of buildings and related rights.

This very active group also is working on comprehensive support for *Linking New Data Acquisition Methods and Maintenance* to LADMs and coordination with OGC/ISO activities.

ISO/TC 172 SC6 Survey Instrument Standards

ISO/TC 172 SC6 provides a comprehensive coverage of standards related to surveying instruments and their accessories including: handheld laser distance meters, levels, theodolites, EDM measurements to reflectors, total stations, GNSS field measurement systems in real-time kinematic (RTK), terrestrial laser scanners etc...

Standards and/or project under the direct responsibility of ISO/TC 172/SC 6 Secretariat (17)

ISO 12858 Series Ancillary devices for geodetic instruments

- ISO 12858-1:2014 Part 1: Invar levelling staffs
- ISO 12858-2:1999/Amd 1:2013 Part 2: Tripods
- ISO 12858-3:2005 Part 3: Tribrachs

ISO 16331 Series Laboratory procedures for testing surveying and construction instruments

- ISO 16331-1:2017 Part 1: Performance of handheld laser distance meters

ISO 17123 Field procedures for testing geodetic and surveying instruments

- ISO 17123-1:2014 Part 1: Theory
- ISO 17123-2:2001 Part 2: Levels
- ISO 17123-3:2001 Part 3: Theodolites
- ISO 17123-4:2012 Part 4: Electro-optical distance meters (EDM measurements to reflectors)
- ISO 17123-5:2012 Part 5: Total stations **[Under development]**
- ISO 17123-6:2012 Part 6: Rotating lasers
- ISO 17123-7:2005 Part 7: Optical plumbing instruments
- ISO 17123-8:2015 Part 8: GNSS field measurement systems in real-time kinematic (RTK)
- ISO/CD 17123-9 Part 9: Terrestrial laser scanners **[Under development]**

ISO 9849 Series Geodetic and surveying instruments

- ISO 9849:2000 Vocabulary **[Under development]**

Currently FIG is looking for a representative to ISO/TC 172 SC6.

International Property Measurement Standards Coalition IPMS

Jean-Yves Pirlot Secretary General of the IPMS coalition reports:

The International Property Measurement Standards Coalition (IPMSC) is a group of more than 80 professional and not-for-profit organisations from around the world, working together to develop and implement international standards for measuring property.

At present, the way property assets – such as homes, offices or shopping centres – are measured varies dramatically. For example, in some parts of the world it is established practice to include

common space (lift shafts; communal hallways etc.) in floor area measurements; in others off-site parking might be included or even swimming pools.

With so many different methods of measurement in use, it makes it difficult for property users, investors, occupiers and developers to accurately compare space. Research by global property firm JLL shows that, depending on the method used, a property's floor area can deviate by as much as 24%.

An International Property Measurement Standard (IPMS) will ensure that property assets are measured in a consistent way, creating a more transparent marketplace, greater public trust, stronger investor confidence, and increased market stability.

The IPMS Coalition was formed during a meeting at the World Bank in Washington on 01-02 May 2013. Since then two standards were published (IPMS for offices and residential). A few other are to come (industrial, retail and mixed use). The eventual aim is to develop one single standard applicable to all building types, with slight variations or specifics.

The standards are written by an independent Standard Setting Committee, whilst the coalition is led by a Board of Trustees.

Jean-Yves Pirlot, Director General of CLGE is also Secretary General of the IPMS Coalition. His Alternate Trustee for CLGE is Nicolas Smith, CLGE Vice President. He is chairing the euREAL working group in charge of translating IPMS is EU guidance for surveyors. Maurice Barbieri and Rudolf Staiger are respectively Trustee and Alternate Trustee for FIG. Frederic Mortier is a CLGE Expert within the Standard Setting Committee.

Based on the same idea, other coalitions were started (IES: International Ethics Coalition, ICMS: International Construction Measurement Coalition, ILMS: International Land Measurement Coalition).

[International Land Measurement coalition ILMS](#)

The International Land Measurement coalition (ILMS) - take part in a major initiative to improve land reporting efficiency and economic development At the heart of all international standards is the desire to create sustainable, professional markets in an increasingly connected global economy.

ILMS will be a strong international principles based standard, in the public interest, focused on key land information elements, as required to de-risk and aid the process of transaction and strengthen land tenure security, land rights, investment, government revenue raising and economic development.

A basic scope

- Transaction oriented
- High level 'due diligence' process focused on transaction process rather than across the board implementation
- Land Information Framework
- Work on a very high level initial ILMS 1 global standard as a platform for further development

- Creating a basic land information link between developed land systems and developing land systems.
- Key global elements needed (creating an interoperable environment)
- Inclusivity of process and SSC
- Market driven/ inclusion of stakeholders

Key strategic elements

- Approach is key - must be inclusive, transparent and independent
- Money needn't be a blocker. Volunteer experts can be part of something momentous. Virtual meetings will help.
- Implementation needs to be front of mind - not an academic exercise
- The scope is potentially huge. The standards setting committee will need to narrow this down through a 'work plan'.
- ILMS must be high-level and applicable everywhere with national standards slotting in, potentially providing more granular detail.
- Current gap in underlying data between markets (e.g. mapping). This needs to be considered but shouldn't prevent early stages of ILMS.
- The term 'measurement' needs to be explained to ensure it is not seen purely as mechanical - not just about boundaries, could also be more theoretical.
- Through a common approach, ILMS will seek to provide greater confidence in the data/information attributed to a parcel of land.

The coalition was launched at the FAO in Rome, in May 2016. Maurice Barbieri is representing CLGE and FIG (with Rudolf Steiger as alternate). He is vice-chair of the Coalition. The Standard Setting Committee was set up this year and the first meeting will be held in Washington during the World Bank meeting.

International Construction Measurement Standards

The International Construction Measurement Standards Coalition (ICMSC) is a growing group of more than 40 professional and not-for-profit organisations from around the world. It was launched in 2015 to develop and implement consistent international standards for benchmarking, measuring and reporting construction project cost.

In her Commission 10 Report to the GA, See Lian Ong states there has been significant progress in the development of ICMS over the past year. A first draft of the standard was completed and circulated in August 2016. The final draft of ICMS was completed in October 2016. It is scheduled to be fine-tuned for final public consultation in March and published in July 2017.

Specific Standards Issues in the Commissions

Standards issues related to FIG Commission 4

The International Board (IHO, FIG and ICA) has published guidelines for establishing individual recognition for hydrographic surveyors, at both professional and technical levels, taking into account education and experience.

Standards issues related to FIG Commission 5

Commission 5 follows ISO/TC 172 SC6 Work on Survey Instrument Standards, and ISO/TC 211 Geographic information/Geomatics.

Standards issues related to FIG Commission 6

Commission 6 is interested in the ISO TC 172 and the ISO 17123 series of standards related to survey instruments. There is interest in helping to define standards in deformation measurement and monitoring and data analysis. Other points of interest include machine guidance, integrating BIM model and machine guidance, exchange of data etc....

Standards issues related to FIG Commission 7

Commission 7 is very active – specifically in *ISO 19152 on the Land Administration Domain Model (LADM)*.

Standards issues related to FIG Commission 9

Commission 9 is the FIG link to the *International Measurement Standard of Property (IPMS)* initiative.

Standards issues related to FIG Commission 10

Commission 10 is actively involved with the International Construction Measurement Standards Coalition (ICMSC) aiming to develop and implement consistent international standards for benchmarking, measuring and reporting construction project cost.

FIG 2017 Helsinki Working Week Standards Network Meeting

The next Network meeting will be held on Thursday 1 June 11:00 to 12:30 during the 2017 FIG Helsinki Working Week.

Summary

Standards are important in the surveying profession. Standards work in FIG ranges from input on the very specific ISO/TC 172 SC6 Survey Instrument Standards; to liaison with the much broader ISO/TC 211 Geographic Information/Geomatics which impacts on virtually every aspect of the surveying profession; to ISO 19152:2012 Land Administration Domain Model (LADM); and the implication of Commission 9 in the IPMSC coalition with the aim to develop and implement International Property Measurement Standards.

The Standards Network is responsible for building and maintaining relations with the different standardisation bodies, proposing priorities on FIG's standardisation activities and ensuring information flow on standardisation to FIG members. One of the principal ways these goals are accomplished is through a Standards Network meeting held during FIG working weeks and Congresses. In principle each Commission appoints a representative to the Standards Network to discuss their Commission's interest and requirements in standards.

**Report to the 40th General Assembly
FIG Working Week 2017, Helsinki, Finland**

**FIG Regional Capacity Development Network (CDN)
Report of Activities 2016**

The Chair is pleased to present the report of the Regional Capacity Development Network. This report sets out the overall direction and covers the period 2016.

The FIG Capacity Development Network (CDN) aims to support FIG regional member associations and academic members. The network envisages regional approaches to working, and emerged in response to consideration by the FIG Council and approved by the General Assembly in Sofia, Bulgaria, in May 2015. The Network terms of reference and supporting material can be viewed at http://www.fig.net/organisation/networks/capacity_development/index.asp

The CDN operates as an umbrella framework that enables individual members to unify into their own Regional networks (RN) to meet their specific capacity building needs. Although the geographical regions are not prescriptive it is anticipated that regions identify their own out-reach.

Accordingly the focus is led by FIG Member Associations to understand and build the capacity of the surveying association and individual surveyors to act as agents of positive change and encourage the process of development and growth for the benefit of the Region and its people.

Each region best understands its needs, thus within the CDN framework the Regions act independently. Consequently to establish a RN an appropriate business case needs to be submitted and agreed at FIG Council. This business case outlines the overarching mandate for each region clearly stating "how to develop and build the capacity of land professionals to enable them to effectively embrace current global trends in their respective regions".

The Africa Regional Network (ARN) was the first to be established under this umbrella network, and an additional region has followed with the establishment in the Asia Pacific region of the **Asia Pacific Capacity Development Network** (AP CDN).

In 2016, FIG Council received and approved a business plan from the AP CDN, led by **Rob Sarib**. Outlined in this business plan, the aim is to help professionals to address the challenges associated with global geospatial trends, and accordingly is closely partnering with the United Nations Global Geospatial Information Management Asia Pacific (UN GGIM AP)

FIG Council will warmly welcome other regional initiatives from FIG members. All interested members should contact Vice president Dr D Dumashie during the FIG 2017 working week or on email at ddd@dumashie.co.uk.

Finally, the chair is pleased to receive annual reports from the Africa region and Asia Pacific region.

**Dr Diane Dumashie FRICS
FIG Vice President
Chairperson FIG Capacity Development Network 2015-18**

**Report to the 40th General Assembly
FIG Working Week 2017, Helsinki, Finland**

Africa FIG Regional Development Network (ARN)

Report of Activities 2016

1. Overview and Purpose

This is the Chair's report on the activities and running of the Africa FIG Regional Network (ARN) over the period 2016.

The key purpose of ARN is to enable the surveying profession in Sub Saharan Africa to deal with social responsibility in terms of contributing to achieving the UN Sustainable Development Goals (SDGs). In this regard, the role of the surveyors as change agents engaging with the politicians is important.

The Africa Network through workshop activities will consider and present new and creative tools and other means to revitalise and strengthen Land professional members within Sub Saharan Africa. The focus will be led by FIG Member Associations to build the capacity of the surveying association and individual surveyors to act as agents of positive change and encourage the process of development and growth for the benefit of Africa and its people.

Key activities undertaken

2. Cooperation

Central to the activities of the ARN is the cooperation and collaboration with a range of stakeholders, foremost the Young Surveyors Network who have been integral to deliver workshop content, in addition to partnering with FIG Commissions and FIG corporate members (i.e Trimble, Thomson Reuters) who have in the past, provided unbiased content and sponsorship.

This year (2016) we cooperated specifically with the Fédération des Géomètres Francophones (FGF) to hold our annual ARN capacity development workshop in Abidjan, Ivory Coast and were introduced to De L'Ordre des Geometres-Experts de Cote d'Ivoire (OGECI), who provided the workshop logistical support.

3. Seminar organisation

In order to provide valuable input for the network's work over the term 2015- 2018, a series of thematic Regional workshops will be arranged in Africa between each FIG Working Week. These workshops will develop tools for use by the members and validated at Roundtable discussions at the following FIG Working weeks, the next roundtable meeting is scheduled in Helsinki, Finland 2017.

Accordingly, drawing upon the theme agreed in ARN's terms of reference, and ratified by General Assembly, the 2016 workshop: ***A time to Improve Land Governance: How the Land Professionals can support the implementation of The Voluntary***

Guidelines on the Governance of Tenure (VGGT) was held in Abidjan, Ivory Coast 16 - 18 November 2016

Every year, ARN invites an African FIG member association to partner in the ARN workshop activities. In 2016 the opportunity arose to cooperate with **President François Mazuyer, Fédération des Géomètres Francophones (FGF)**.

The ARN event complemented the FGF conference theme: "Land management and sustainable development, which solutions for developing countries". The FGF conference was attended by Land professionals and exhibitors from across Francophone speaking Africa. The ARN program was designed in parallel with FGF activities, ensuring that we came together at various stages to join across Anglophone and Francophone networks thereby exposing land professionals to a greater and diverse number of people creating an informative and productive meeting.

The ARN workshop brought together 35 land professionals over the 2 day workshop, participants were drawn from several Anglophone and Francophone African nations with expertise across the range of land professional disciplines within FIG membership.

Vice President **Diane Dumashie** chaired the meeting and designed and facilitated the training workshop. From the FIG family, the chair was assisted by **Stephen Djaba** (Geotech Ghana) and **Robinson Ndwiga Murithi** (GEBCO Kenya) and **Yacoba Hamed Dagnoko** (OGECI) who was indispensably on logistics. Importantly ARN collaborated with the Young Surveyors from West Africa, led on this occasion by **Yusuf Aro-Lambo, Adama Sarr, Daniel Brown** and **Chuck Onwuzuligbo**.

4. Seminar deliberations

The workshop focus sought to build the future resilience into land professional practices to improve governance of tenure by understanding the implementation opportunities referenced in the VGGTs that will ensure that people benefit from secure and equitable tenure rights. The key objective is to communicate action orientated messages to multi-stakeholders of how land professionals can assist to improve governance of tenure drawing upon the VGGT principles.

The VGGTs are important. As an international soft law there is consensus that equitable land governance and tenure security for all is the foundation for sustainable economic development, all participants recognised this and expect to identify what they might do in their own place of work. The outcomes will be further discussed at the FIG ARN roundtable to be held at the 2017 FIG working week in Helsinki.

Over the two days the participants' task was to apply the VGGT principles by addressing what ideas using a digital communication platform to develop messages for a statement for action, and to explore leadership skills within their own communities

On Day 1

Focussing on the VGGT's and blending participatory group work with the adaptation of the FAO's E-learning modules (<http://www.fao.org/nr/tenure/e-learning/>) enabled comprehensive deliberations and activities. The network welcomed Dr **W. Odame Larbi, FAO** Africa (on secondment from AU LPI) who supported our deliberations throughout the day, and **Robinson Ndwiga Muriithi** assisted at the plenaries.

The day's outcome was a series of digitally created messages that in 4 minutes highlights messages to public, private and civic communities demonstrating:

- *The existence of the VGGT guidelines,*
- *Identifying What Land professionals can/ and do, to help implement the VGGT, and*
- *For subsequent discussion in the lead up to the FIG Working week in Helsinki, the groups own Unique key message to contribute to the African VVGT Action Statement*

The group's video messages can be viewed at the ARN web site http://www.fig.net/organisation/networks/capacity_development/africa/events/2016_abidjan/index.asp

On Day 2

The morning sessions were jointly held with ARN and FGF. Vice President **Diane Dumashie** delivered a welcoming address to FGF/ ARN, and was also asked to chair the opening presentations and convene the panel discussants: **Dr W. Odame Larbi** and Madame **Clair Galpin** (delivering Fit-For-Purpose on behalf of GLTN).

The ARN network then re- convened for the remainder of the morning with FIG **Stephen Djaba** presenting thought provoking leadership skill requirements and facilitating an open plenary discussion. The closing was provided by Dr W. Odame Larbi, and **Ibrahim Mwathane** (on behalf of the Africa Union Land Policy Initiative).

In the late afternoon the ARN workshop and FGF conference combined to formerly close. Activities were rounded of and participants came together to share some fun on an early evening boat trip navigating through the complex waterways of Abidjan harbour

5. The workshop outcome

The workshop successfully provoked thought and stimulated debate, along with achieving the following objectives:

- To raise awareness by coming together to consider the opportunity land professionals could make to improving governance of tenure by implementing the VGGT principles
- To add value for participants through a learning experience to enable them to act as agents of change
- To provide succinct messaging that will enable the compilation of a African Land professionals VVGT statement for action
- A final draft document is to be uploaded on the website in preparation for a roundtable discussion at the Working Week in Helsinki Finland June 2017.

6. Communications

Over the year, the chair with support from the ARN core team has:

- Delivered a successful capacity development workshop bringing together anglo phone and francophone land professionals from across the Continent. This enhanced knowledge and enabled them to share their experiences.
- Developed a Strategic framework document with tangible actions to be reported to General Assembly at the end of the term (2018)

- Discussed on going strengths and capabilities of the regional network and identified risks and challenges
- Defined and continue to build partnerships with member associations and external strategic stakeholders including FAO, AU, FGF and GLTN (UN Habitat)
- Drafted a program to engage and deliver the next capacity development workshop in 2017, subject to attracting sponsorship
- Delivered communication platforms for Member associates, Academics and the Young surveyors network and gained new entrants from Africa into FIG and ARN

7. Closing remarks

The network is about equipping Land professionals to better contribute to society, to do this requires professionals to understand, adapt and embrace the future.

Within the SDG's and having ethics underpinning everything that Land professionals do the workshop in 2016 considered the opportunity land professionals could make to improving governance of tenure, recognising the context that land and (other natural resources) provide humanity, among others, food and shelter and a basis for economic production and social, cultural and religious practices.

It is imperative that Land Professionals across the world remain engaged in initiatives that will enable them to make a difference.

Rights of access are increasingly affected by climate change, natural disasters, population growth, urbanization and the growing demands for land for agriculture including for bio-energy initiatives. The focus is on how to translate the VGGT's from principles to implementing strategies within our sector and to meet the societal challenges and opportunities articulated in the SDGs.

The attending participants and those from the wider ARN network are proving that communicating to influence, purposefully collaborating and, in doing so, building connectivity to ensure that skills are developed that will reach out to all stakeholders' community networks. The upcoming workshops in 2017 will continue to strive to optimise and continue the network's deliberations in Africa.

If you wish to be kept informed of ARN upcoming activities, please do contact the Chair who will be happy to place you on the Email circulation.

Dr Diane Dumashie FRICS
FIG Vice President
Chair Africa FIG Regional Development Network 2015-18

Report to the 40th General Assembly
FIG Working Week 2017, Helsinki, Finland

FIG Asia Pacific Capacity Development Network (AP CDN)

Report of Activities 2016

1. General

FIG, primarily through Commissions 3, 4, 5 and 7, have been involved in assisting countries in Asia and the Pacific to develop the *geospatial and survey* capacity of surveyors for a number of years. More recently the focus of many countries in the region has been modernizing geospatial reference systems and developing the capacity to sustain this enabling infrastructure. To facilitate and support this activity the FIG Asia Pacific Capacity Development Network (AP CDN) was established and was formalized by the General Assembly at the 2016 Working Week in Christchurch.

The mission of this network is to enable an environment of land, marine and “space” professionals to effectively provide innovative, reliable and best practice solutions to address the regional social, economic, environmental and technological challenges associated with global geospatial trends, our rapidly changing and complex world. To accomplish this mission, FIG’s networking partner is the United Nations Global Geospatial Information Management Asia Pacific (UN GGIM AP), in particular Working Group 1 Geodetic Reference Frames, chaired by Dr. John Dawson. Website - <http://www.un-ggim-ap.org/>

The AP CDN work plan, objectives and activities of this network can be found at website - https://www.fig.net/organisation/networks/capacity_development/asia_pacific/index.asp

2. Steering Committee and the Network

The Steering Committee and network of professionals comprises of individuals and agencies from various non-government, government and scientific organizations. Presently there is representation or involvement from FIG Commission 5, UN GGIM AP Working Group 1, Geoscience Australia, Land Information New Zealand, International Association of Geodesy (IAG), ASEAN Flag, Pacific Community – Geoscience Division and the Pacific Geospatial Surveying Council (PGSC).

3. Cooperation

From a technical and scientific perspective FIG has used expertise from our Commissions and have also been co-operating with existing sister organizations such as the UN GGIM AP Working Group 1 – Geodetic Reference Frame and the IAG. Administratively and logistically this network has had ongoing support from the FIG Office, Australian Government agencies and their regional programs, Pacific Community Secretariat, New Zealand Foreign Affairs and Trade, New Zealand Institute of Surveyors, and the more recently JUPEM (Department of Survey and Mapping, Malaysia).

4. Events and Communications

The FIG AP CDN in conjunction with the UN GGIM AP have convened two workshops in 2016 –

- Geospatial and GNSS CORS Infrastructure and Systems – this forum was held at the Park Royal, Kuala Lumpur, Malaysia on the 16 - 17 October, and comprised of 6 sessions, 22 presentations and attracted over 150 registrants
- Pacific Heights Datum Workshop – this was held at Pacific Community “Pasifika Conference Room”, Lotus Building in Nabua – Suva on the 26 November, included 4 invited presentations, and it attracted 30 registered participants.



UN GGIM AP Working Group 1 / FIG AP CDN Workshop in Kuala Lumpur, Malaysia October 2016

The FIG AP CDN also participated in the following regional meetings and events in 2016 –

- FIG Working Week and SIDS Workshop in Christchurch - New Zealand, May
- PGSC meeting in Christchurch - New Zealand, May and also in Suva – Fiji, November
- UN GGIM AP Plenary Meeting and forum / workshop on Policy and Legal Frameworks for Geospatial Information Management in KL – Malaysia, October
- Pacific GIS / RS Users Conference in Suva – Fiji, December



PGSC meeting in Suva, Fiji November 2016

For detailed information about the activities and outcomes of the FIG AP CDN please refer to the website – https://www.fig.net/organisation/networks/capacity_development/asia_pacific/index.asp

5. Accomplishments and Challenges

From a work plan perspective, to date the FIG AP CDN has achieved the following –

- Formed the network of geospatial and surveying professionals to assist countries with modernizing geospatial reference systems and developing the capacity to sustain this enabling infrastructure.

- Created and implemented a FIG AP CDN capacity development business plan for the Pacific Island Countries and Territories (PICTs).
- Developing a FIG AP CDN work plan / guide to modernizing geospatial reference systems in Asia.
- With the support and assistance of the FIG Office created and maintained a relevant AP CDN website
- Provided advocacy and support to Asia and the Pacific through workshops, technical and professional advice, and active attendance to meetings or events in the regions.
- Promoted the benefits and opportunities for countries who implement modernized reference frames, and contribute to the regional Asia Pacific Reference Frame (APREF website <http://www.ga.gov.au/scientific-topics/positioning-navigation/geodesy/asia-pacific-reference-frame>) as a key components of geospatial infrastructure that underpins land and marine datasets and systems.

The challenges for 2017 are –

- Ongoing advocacy of the value of geospatial and surveying information to decision and policy makers.
- To maintain momentum and building of the FIG AP CDN.
- To ensure technical workshops have active FIG representation, technical input and content relevant to the needs of the geospatial and surveying professions in Asia and the Pacific region. Possible workshops locations in 2017 are –
 - FIG Working Week May / June 2017
 - Kobe, Japan, 29-30 July 2017 in conjunction with the IAG-IASPEI Joint Scientific Assembly;
 - Kamamoto, Japan in conjunction with the UN-GGIM-AP Plenary Meeting, October 2017;
 - China, September 2017
 - Suva, Fiji November / December 2017
- To collaborate with other FIG Commissions and Networks to achieve the FIG AP CDN mission and objectives.
- To generate opportunities so as to gain more support and involvement from FIG Corporate entities to achieve the FIG AP CDN mission and objectives.

לשכת המודדים המוסמכים בישראל
ASSOCIATION OF LICENSED SURVEYORS IN ISRAEL



November 28, 2016

Prof. Chryssy Potsiou
FIG President
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
Denmark

Ms. Louise Friis-Hansen
FIG Director
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
Denmark

Dear President Prof. Chryssy Potsiou,
Dear Director Ms. Louise Friis-Hansen,

On behalf of the Israeli Association of Licensed Surveyors (ALSI), it is my great pleasure to submit the nomination of Professor Dr. Yerach Doytsher as an Honorary Member of FIG.

FIG Statutes (para 3.1.7 §) define an Honorary Member as an individual who has materially assisted the development and promotion of the surveying profession at the international level. I believe that Professor Dr. Yerach Doytsher has fulfilled this requirement excellently and professionally over a period of more than 20 years of active involvement with FIG.

Professor Dr. Doytsher holds BSc, MSc and DSc degrees in Geodetic Engineering, and is an Emeritus Professor of Mapping and Geo-Information Engineering at the Technion – Israel Institute of Technology. He has a long history of practical engineering and land surveying experience in the public and private sectors in Israel and abroad and has significantly contributed to our profession. In the last decades he has developed new standards and ideas in order to face the new challenges of our profession and his extensive research experience is in the different aspects of cadastre, mapping and surveying, is also worth mentioning..

Since 2011, Professor Dr. Doytsher serves as the president of the Association of Licensed Surveyors in Israel, and is very successful in this position. Organizing professional courses to promote the professional level of the licensed surveyors in Israel, organizing annual fruitful conferences, and to move forward the level and quality of the surveying profession.

Professor Dr. Doytsher is extensively involved in FIG issues. He is the Israeli national delegate to Commission 3 for many years now, and had participated in the last 20-25 years in most FIG congresses and annual working weeks, as well as in many other FIG workshops. He has delivered a large number of invited speeches and presentations on subjects of Surveying, Cadastre, Spatial information and GIS management in these events.



Professor Dr. Doytsher has always been a faithful delegate to FIG from ALSI and has served the Federation with his outstanding talent and dedication for many years. In particular, through the years he had the following contributions:

- 2015-2016, Chair, FIG Task Force on Establishing the FIG Scientific Journal
- 2011-2014, Chair, FIG Commission 3 on Spatial Information Management
- 2013-2014, ACCO Representative to the FIG Council
- 2007-2014, Annual Commission 3 workshops, Chair of the Peer Review Committee.
- 2002-2006, Commission 3, Co-Chair, Working Group on 3D Cadaster, Inter-Commission activity of Commission 3 and Commission 7.
- 1998-2002, Commission 3, Co-Chair, Working Group 1 (Technical Aspects of SIM).

He also was a key member of the Local Organizing Committee for FIG Working Week 2009.

ALSI believes that Professor Dr. Doytsher has significantly promoted the work of FIG and the work of the Cadastral, Surveying, and the Mapping disciplines internationally. We hope that this nomination will be favorably received by the FIG council and the General Assembly.

Yours Sincerely,

Eliyahu Talmon
ALSI Vice President and Treasurer
Tel-Aviv, Israel

Nomination of Dr. Daniel Steudler to Honorary Membership of FIG

Dear President, Dear Council members,

As a member association of FIG, the «Swiss Association for Geomatics and Land Management» (geosuisse) would like to nominate its long-time member Dr. Daniel Steudler to the position of Honorary Member of FIG.

Daniel has been an abiding delegate to FIG from geosuisse and swisstopo for many years, and has served the Federation with his outstanding talent and dedication in several activities and events.

His main contributions over the years have been:

- 2014 Organizer and Coordinator of Special Session "Cadastré 2014 – From Vision to Practice and Beyond" at XXV FIG Congress 2014 in Kuala Lumpur and Editor of FIG Publication No. 61 «**Cadastré 2014 and Beyond**».
- 2009-2012 Chair of FIG-Task Force on "Spatially Enabled Society". Co-editor of final FIG Publication No. 58 «**Spatially Enabled Society**».
- 2006-2010 Chair of Working Group 3 of FIG-Commission 7 on "Innovative Technology". Co-editor of final FAO joint publication «**FLOSS in Cadastré and Land Registration – Opportunities and Risks**».
- since 2003 Leader of the "Cadastral Template" project (collection of descriptions of national cadastral systems) and its maintenance (www.cadastraltemplate.org) in close cooperation with the University of Melbourne and FIG-Commission 7.
- since 2003 Official Swiss delegate (from geosuisse) to FIG-Commission 7.
- 1998-2002 Secretary in the Working Group "Reforming the Cadastré" of FIG-Commission 7. Editor of the final publication «**Benchmarking Cadastral Systems**».
- 1994-1998 Secretary in the Working Group "Vision Cadastré 2014" of FIG-Commission 7. Co-author of the final publication «**Cadastré 2014 – A vision for a future cadastral system**».

Daniel also made more than 35 papers and presentations in FIG events, he chaired a great number of technical sessions and has served as a regular reviewer at the six recent FIG-Working Weeks and the FIG-Congress 2010. He was contributing and leading the two bids from Switzerland to host one of the next FIG Working Weeks. And since 1 Jan. 2017, he also is member in the FIG-Foundation's Board of Directors.

Daniel is highly regarded with an international reputation and network. He is a committed and hard worker and a positive ambassador of geosuisse and the Swiss surveying profession in general. The board members of geosuisse think that Daniel's contributions to the profession on the national as well as the international level are extensive and considerable. In accordance with the FIG's Statutes (3.1.7 §), we – the board members of geosuisse – therefore strongly support Daniel Steudler's nomination and believe that he is a worthwhile candidate and deserves the honorary membership from FIG.

We kindly ask the FIG Council to consider such a nomination.

With kind regards,



Executive Committee [geosuisse](#)

Petra Hellemann



Executive Committee [geosuisse](#)

Matthias Widmer

4.1.2017

FIG Task Force on Real Estate Market Study Progress Report

1. SETTING UP THE TASK FORCE

The Task Force on Real Estate Market Study was established at the GA of the FIG WW2015 in Sofia. The Task Force (TF) was to carry out a study on the real property markets concerning mainly countries in an economic transition process in its different phases. It was also proposed that the TF would focus on the ECE region where there are several countries struggling to improve their property markets and overcome crisis.

The Task Force is chaired by Pekka Halme, Director of Strategic Development, from the National Land Survey of Finland.

The other members of the task force are:

- Orhan Ercan, Turkey
- Sonila Jazaj, Albania
- Dennis Lindén, Sweden
- Vasily Nilipovskiy, Russia
- Steven Nystrom, USA
- Helge Onsrud, Norway
- Chryssy Potsiou, Greece
- Ionut Savoiiu, Romania
- Winrich Voss, Germany

Also experts from the target countries in the region can be used to form a network to assist the task force in its work. The decision on the network will be taken during the project.

2. THE TASK FORCE ACTIVITIES

The TF held its first meeting in Cape Sounio, Greece, on September 1, 2015. Six members had the opportunity to attend.

The second meeting was held on September 17, 2016 also in Cape Sounio, with seven members attending. The discussion at the meeting benefitted a lot from the input of several observing attendees: Rudolf Staiger, Anthony Boanada-Fuchs, Kauko Viitanen, Matt Myers, Bob Foster, Manohar Velpuri and Richard Grover.

2.1. FOCUS/THEMES

The original list of relevant topics that was presented in the General Assembly in Sofia was discussed and developed in the first meeting. The agreed list is shown below.

- Government guarantees to register information; Security of ownership/tenure

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- Property taxation, appropriate valuation
- Land-Use restrictions, Permitting procedures
- Legislation, relevant recent legislative and administrative reforms and involved governmental agencies for regulation
- Existing registers/databases, information services
- e-gov, m-gov, transparency
- Processes, efficiency of services, customer friendliness of procedures
- Players/actors, investigation of the investors' needs
- Time, fees and costs required
- Sustainable financing mechanisms, access to credit and mortgages
- Prerequisites for Sustainable Growth; conversion of unused or underused resources into productive capital to increase employment and reduce poverty; energy efficiency measures and investment in their implementation on new constructions and existing buildings' refurbishment
- Affordable housing
- Education, training, professional capacity development.

The TF saw that it cannot cover the whole spectrum of the factors mentioned above but rather will prioritize and choose to focus on some aspects before the others.

A possible perspective to take is on how the system functions in the countries in the region and try to find out if there is a gap between theory and reality and identify the major challenges in the countries under study.

At the meeting on September 17, 2016 it was agreed that before a final decision on the topics to cover can be taken we will have to know what information is available.

2.2. WORK PLAN

The Task Force has agreed on the following work plan:

The work will be carried out during the years 2015-2018 and the final report will be published at the FIG Conference in Istanbul in 2018.

The work will comprise initially:

- task force meetings (at the FIG WWs and separately)
- decision on methodology or framework,
- desk study (existing data and reports),
- decision on target countries,
- decision on the topics,
- collection of additional information from target countries,
- potential field visits,
- potential coordination with the WB for a joint study,
- elaborating the results,
- drafting the report

The different steps of the project are:

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1. TF meetings and other means of keeping contact

Most reporting within the TF will be done by email and other electronic channels. The TF will have one or two meetings each year.

The TF will organize a session for the FIG WW in Helsinki, May-June 2017. The session has been accepted as part of the WW program and the papers to be presented in the session are in progress.

As agreed, the TF will arrange two focused seminars of which the first one was held in Athens, Greece on September 19-20, 2016. The seminar concentrated on getting additional information from the target area and discussions on the ideas and findings so far. The Task Force invited speakers to bring the additional knowledge they can offer. The second seminar, again with invited speakers, is planned to be held in Turkey in 2017 and concentrate on the draft report and conclusions.

2. Methodology or framework and target countries

A desk study will be carried out concentrating on existing reports and materials.

- The International Property Market Scorecard will be used as one of the corner stones for the work and provide the Task Force members with analysis early in 2016. The target countries are preliminarily Russia, Turkey, Greece, Ukraine, Armenia, Romania, and Bulgaria. The Russian and Turkish TF members will then go through the facts concerning their respective countries. Prof. Potsiou will analyze property market needs and challenges in Greece. A basic general study on the target countries is in progress and will be elaborated further by target country representatives. Papers on Greece, Germany, Turkey and Russia were presented at the WW2016.
- Other promising materials that could be used are:
 - i. WB doing Business, UN country Data & CIA World Fact Book information
 - ii. the World Citizen Consulting (CIPE) Scorecard analysis
 - iii. <http://data.un.org/CountryProfile.aspx?crName=GREECE>
 - iv. <https://www.cia.gov/library/publications/the-world-factbook/geos/gr.html>
 - v. <http://www.doingbusiness.org/data/exploreconomies/greece>
 - vi. <http://www.realtor.org/sites/default/files/reports/2016/embargoes/forecast-11-2016-us-economic-outlook-11-04-2016.pdf>
- The basic desk study was finalized in late autumn 2016.

3. Collecting additional information from target countries

Data collection can be done either in the seminars, through the expert network, or through field studies. A country visit and meeting of the TF will be held in Bucharest, Romania on January 17-18, 2017.

It has also been discussed whether any information from developed systems in the non-transitional countries like the U.S., Germany, or the Nordic Countries would be

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good for comparison. A definitive decision on the issue as well as on potential field visits will be taken during 2017.

4. Elaboration of the results

The findings will be elaborated by the Task Force and discussed in the seminars. Beside the conclusions concerning the situation in the target countries, the work will aim at a more general or global level of thinking to assist government and professionals in all parts of the world to deal with the real property market issues.

5. Drafting the report

The report itself will be written by the end of the year 2017.

3. FUNDING

There is no formal budget for the Task Force. The funding can basically be provided from three sources i.e. the TF members' own organizations, the FIG, and other actors.

Carrying out the task generates costs for travels, accommodation, and meeting facilities of the TF meetings themselves. Additional costs are caused by the meeting facilities and catering for the seminars as well as through participation of the TF members. The amount of these costs/expenses can be estimated as follows:

Item	2016	2017	2018
	Outcome		
TF meeting room	300 ¹	300	300
TF accommodation (6)	900 ²	900	900
TF flights (6)	1500 ²	1500	1500
Seminar meeting room	1000 ¹	1000	
Seminar catering	1000 ¹	1000	
TF attendance in seminars			
- accommodation	900 ²	900	
- flights	1500 ²	1500	
Total	7100	7100	2700

¹ Covered by GLTN, National Bank of Greece and Eurobank

² Covered by TF members

4. OUTCOME

A report on the situation in the target countries or the ECE Region overall has a value in itself for the countries in question. However, the target has to be set higher or the report should also give a non-region-specific view on the problems and challenges, and provide tools to deal with them for the governments and professionals on a more global scale.

The Final Report on the current situation in the real property market in the target region, its challenges, and main lines of development as well as recommendations and views on potential ways of dealing with the real property market imperfections will be presented in the FIG Congress in Istanbul in 2018.

REPORT ON ACTIVITIES OF TASK FORCE ON FIG CORPORATE MEMBERS

The task force continues to study opportunities for FIG Corporate Members to cooperate and network with the FIG community.

The primary and key focus is to increase the number of FIG Corporate Members while providing better communication with FIG Council and interaction between the wider FIG organisation and ultimately member associations.

Aim of the Task Force

- Solicit input of current FIG Corporate Members to explore how they can participate more fully in the FIG Community
- Discuss what is important in their relationship in FIG
- Explore comprehensive benefit package for FIG Corporate Members
- Increase the number of FIG Corporate Members
- Communicate to FIG Council the results of the above

Current recommendations

- o Advisory Panel composed of Executive Level (CEO/President/Vice President) members
- o Invitation to participate as Observers in the Directors General Forum, President Meeting and other similar networking opportunities with all FIG member types (association/academic/affiliate)
- o Actively solicit Corporate Members to attend/participate and provide paper submissions/content and participate in related commission activities and technical sessions
- o Actively recruit new Corporate Members through direct solicitation via email and attendance at industry events (Intergeo, etc.)
- o Encourage Corporate Members to aid in recruitment and nomination of new Corporate Members
- o Encourage Member Associations to promote opportunities for Corporate Membership to key local/regional candidates
- o Encourage Corporate Members to actively promote/sponsor participation/attendance at FIG events
- o Consider establishing annual all-encompassing sponsorship opportunities
- o Recognize and identify key accomplishments of Corporate Members
- o Encourage Corporate Member content submission for FIG e-newsletter
- o Encourage Corporate Members to include FIG logo in literature and advertisements
- o Update Corporate Member recruitment literature

Respectively submitted by

John Hohol

Bryn Fosburgh

Co-Chairs- Task Force on FIG Corporate Members

Task Force on Establishing a FIG Peer-Review Scientific Journal

Final Report

FIGWW'2017 - General Assembly

Helsinki, Finland

Background

Following the discussions and comments received from participants at FIG during the past years, the existing peer-review process for papers sent to FIG's annual conventions (working weeks and congresses) has not yet produced the desired results. First, although the peer-review process started as far back as 2008, this process does not benefit members of the academia when it comes to assessing their achievements (towards academic appointments, promotions, etc.) since their accepted publications under FIG are not indexed in citation databases of peer-reviewed literature (e.g., ISI). Second, the level of peer-review is not consistent, particularly in light of claims that some reviewers are not strict enough about the level of review, and that papers of inferior standard pass the filtering process and are accepted.

Establishing the Task Force

The Task Force has been established at the GA during 2015 FIGWW in Sofia, Bulgaria. The Task Force has been asked to examine the possibility of initiating a new peer-reviewed scientific journal within the framework of FIG. During discussions among its members since then, it was agreed that two main options should be considered:

1. Establishing a new scientific FIG journal with all its implications - editorial board and editor-in-chief / associate-editors, initiating a printing system - mechanism (in case of a hard-copy version of the journal), get the approval of leading citation databases to index our journal, etc.
2. Initiating activities on the matter on a lower scale, at least for the next 5-10 years, by collaborating with several existing geomatics journals or publishers to publish our papers in their journals.

A new Scientific FIG Journal

Establishing a new scientific FIG journal is concerned with two main aspects – organizational and professional. Without minimizing the significance of the

organizational aspects, the main challenges in establishing a new journal are with the professional aspects. Within the professional requirements, the main issue is to achieve recognition by the Citation Databases. The requirements of the main citation databases, which can vary, are:

1. Issues should be published at set times and at regular intervals throughout the year (although “Web of Science” is willing to consider including a periodical procedure).
2. A number of volumes should be published before considering whether a journal should be included in a citation database. The specific required number is not provided. We assume that initially there will not be more than 3-4 issues per year, and therefore the process towards inclusion in the databases can only start 1-1.5 years after the journal is first published, and would last several months thereafter (completing the process in ~2 years).
3. There are no restrictions on including an open sourced e-journal (vs. a printed journal) in a citation database.
4. Appointing an editor-in-chief (and associate-editors), as well as an editorial (advisory) board, all of which are internationally diverse, and are leading academic/research personnel.
5. A broad international diversity of the authors/co-authors of papers.
6. A comprehensive (high standard) and objective peer-review process.

There are a few additional - less significant - requirements, such as having an ISSN number, identifying the authors of the papers by their addresses, publishing concise resumes for authors, and more.

Arguments against a new Scientific FIG Journal

During the meeting at the special session on the matter (FIGWW’2016) and discussions among the members of the Task Force, various arguments against establishing a new scientific FIG journal have been argued:

- The financial aspects should be considered and its effect on FIG budget should be taken into account.
- FIG covers too many topics to be included in one journal.
- A scientific (FIG) journal, which is not focusing on a specific topic, might prevent potential readers to use it.
- The Impact Factor of a journal is dependent on its number of readers (number of citations of its papers) and accordingly without focusing might be not high.

- A regular journal with 3-4 issues a year requires at least ~ 40-50 accepted papers per year.
- Based on the current number of submitted (and accepted) papers in the full-peer-review channel to our annual events – this might be a non-reachable target.

The implications of the alternative solution

As abovementioned, the alternative solution is by collaborating with existing geomatics journals or publishers to publish our papers in their journals. To achieve this, the following steps should be implemented:

- Establishing a consistent and structured peer-review mechanism, which will be composed of an editor-in-chief and 3-4 associate-editors.
- Establishing an editorial (advisory) board composed of 20-25 reviewers.
- Be in touch with several exiting journals to reach pre-defined agreements to publish our accepted papers.
- The peer-review process, which will be carried out by the editors and the editorial board, will be rigorous with high scientific and/or professional standards (the current level of review process of the full-peer-review papers within the annual working weeks does not reach the desired standards).

Previous experience of journal publishing within FIG framework

FIG commission 3 (Spatial Information Management) has established more than 12 years ago a full-peer-review-process at its annual workshops.

Based on a rigorous peer-review process, the review results were adopted by several journals, and their editors have agreed to publish the accepted papers in their journals without requiring an additional review process. These journals are:

- Survey Review;
- Surveying and Land Information Science;
- Nordic Journal of Surveying and Real Estate Research;
- Computers, Environment and Urban Systems (to some extent).

At FIG commission 3 annual workshops about 20-25% of submissions were via the full-peer-review process, and only 40-50% of these submissions were accepted after the peer-review process (for comparison, leading journals

mention a 25-50% acceptance rates for publication). These figures might give us an initial estimation regarding the acceptance rate of papers during our working weeks and congresses.

Collaboration with existing Journals

To examine the possibilities and potential to collaborate with existing journals we were in touch with editors, editors-in-chief or co-editors of more than 20 leading journals covering different aspects of our profession. Correspondences suggest the following principles of collaboration:

1. FIG will establish an international editorial board, which will include leading figures (academic professors as well as high-level professionals).
2. The peer-review process, which will be carried out by the editorial board, will be rigorous with high scientific and/or professional standards.
3. The peer-review process will be transparent (including parameters, criteria etc.) to the editors of these journals.
4. These journals will accept (adopt) our peer-review-process without applying their additional peer-review process.
5. The accepted papers will be published in these journals (as special issues or within their regular issues).

These journals (in alphabetical order) are:

- Applied Geomatics
- Cartographica -- The International Journal for Geographic Information and Geovisualization
- Cartography and Geographic Information Science (CaGIS)
- Computers, Environment and Urban Systems
- Computers & Geosciences
- Geoinformatica
- Geomatica
- Geo-spatial Information Science
- International Journal of Applied Earth Observation and Geoinformation (JAG)
- International Journal of Digital Earth (IJDE)
- ISPRS International Journal of Geo-Information (IJGI)
- Journal of Applied Geodesy

- Journal of Land Use Science
- Journal of Spatial Science (TJSS)
- Journal of Surveying Engineering
- Land Use Policy
- Marine Geodesy
- Surveying and Land Information Science (SaLIS)
- Survey Review (SR)
- The Cartographic Journal
- Transactions in GIS
- URISA Journal

So far (end of February 2017) we have received only one negative reply refusing to publish our accepted papers (they rely only on their internal reviewing process), and five positive replies, which agreed in principle to collaborate with FIG and publish our accepted papers in their journals.

Two comments on this matter:

- Our assumption is that until the working week in Helsinki we will have more responses (hopefully many of them positive).
- Even the positive responses still require negotiations with the journals to reach agreements on the form of collaboration between us.

Recommendations

The recommendations of the Task Force to the council and to the GA are:

1. Adopting the solution of publishing the accepted papers during our annual working weeks and congresses in existing geomatics journals for a period of 5-10 years (e.g., special issues).
2. Establishing a consistent and structured peer-review mechanism, which will be nominated by the council and will be approved by the GA. The nomination of the editor-in-chief and the 3-4 associate-editors will be for a term of 4 years, and will have a status that is equivalent to a permanent "Task Force".
3. The editor-in-chief and the associate-editors will be responsible to nominate 20-25 reviewers as an editorial (advisory) board.
4. The editorial staff (editors and editorial board) will be acting as an independent body for all purposes.

5. This editorial staff will abide by the rules of leading journals in the field, and will handle the review process of papers sent for publication during FIG annual working weeks and congresses (and perhaps also during the commissions' workshops – if the commissions are willing)
6. The current channels [(a) full-peer-review; and (b) abstract-review] for submitting papers to our annual working weeks and congresses will be kept as is (where authors will be asked to present their research during the working weeks and congresses). However, papers submitted to the full-peer-review channel will be classified into 3 groups (levels):
 - a. Fully accepted – to be published in the international scientific journals
 - b. Partial accepted – to be published as accepted full papers in FIG website (as it is done for the last 8-9 years with the full-peer-review accepted papers)
 - c. Rejected papers – will be reviewed again in the non-peer-review (abstract review) channel.
7. All FIG commissions will have the option to join this process and submit papers from their annual workshops to be published (if accepted) in the journals. In this case, the peer-review process will be handled independently by the editorial board - and not by the commissions.
8. Postponing the decision of establishing a FIG Scientific Journal to a later date, perhaps for 5-10 years (to be discussed by the council during the term 2023-2026).
9. If the recommendations are adopted by the Council and the GA, authorize the editor-in-chief and the associate-editors to reach an agreement with 5-7 journals, and determine the framework for common future activities.
10. The administrative activity of the editorial staff will be handled by FIG office (in a similar process to what was done until now toward working weeks and congresses).

Planned timetable

The planned timetable is as follows:

- | | |
|-----------|---|
| 29.5.2017 | General Assembly (first meeting) – the activity of the Task Force and its recommendations will be presented (it will be reported earlier to the council in Helsinki). |
| 31.7.2017 | Council nominates an editor-in-chief and 3-4 associate-editors |

(if the GA approves the recommendations of the Task Force).
The GA at the 2018 congress in Istanbul should approve the nominations.

- 31.10.2017 The editor-in-chief and associate-editors will nominate 20-25 reviewers as an editorial (advisory) board.
- 31.10.2017 The editor-in-chief and associate-editors will finalize MOUs (agreements) with 5-7 journals for mutual collaboration.
- Nov. 2017 FIG office will inform (toward the 2018 congress) all its members about the new structure of the peer-review process, the names of the editor-in-chief, the associate-editors and the editorial board (reviewers), as well as the names of the journals that will be publishing the accepted papers.
- May 2018 A report by the editor-in-chief and associate-editors will be submitted to the GA during the congress in Istanbul.

Yerach Doytsher, Chair
March 2017

FIG Task Force on Commission Structure

Final Report for Consideration

(February 2017)

Task Force members: Mikael Lilje (chair), Brian Coutts (New Zealand), Stephen Djaba (Ghana), Henning Elmström (Denmark), Kate Fairlie (Australia), Brent Jones (USA), Jürg Kaufmann (Switzerland), Hansjörg Kutterer (Germany), Robert Sarib (Australia), Winnie Shiu (China), Rudolf Staiger (Germany) and late Karl-Friedrich Thöne (Germany).

1. Executive summary

As a result of discussions at the FIG WW Christchurch, questionnaire responses from FIG Member Associations and follow up meetings with Task Force members and Council, **the Task Force concludes that FIG Members Associations are not yet ready for major change**, in particular to the Commission numbers and structure. Also, as a result of the decision by FIG Council in September 2016 to keep the current ten Commission also during the period 2019-2022, the Task Force decided not to present minor changes as an option at this stage.

Furthermore, no clear direction was provided to the Task Force during these discussions regarding

- how Commissions should operate
- how Commission Chairs should be selected
- the appropriate format and method of utilisation of Networks and Task Forces

Although the participation in the poll was low the Task Force sense that members

- a) are not ready for major change,
- b) may not understand the existing structure and operation of FIG, and
- c) may not necessarily understand or agree that the global economic, social and technical challenges ahead will impact FIG and how
- d) do not understand the role, interrelationships and potential of the three entities - Commissions, Task Forces and Networks - that in combination could make FIG very efficient.

As a consequence this report will not present a new proposal for Commission structure. Instead the Task Force recommends that the Council to consider the following;

1. **Consider establishing a Task Force to review and modernise the governance of FIG**, including strategy, vision, mission and the overall internal structure.
2. **Establish a Task Force to examine how FIG can better facilitate, mentor and monitor the performance, activities and progress of Commissions, Networks and Task Forces** on a regular basis.
3. **Improve and strengthen the process for the nomination of Chairs.** Internal rules support a more active Council on this, thus Council should consider using ACCO in the review of the

nominations to Chairs-elect to ensure that candidates meet the criteria. Consideration should be given to identifying suitable individuals for Commission Chair positions at an early stage.

4. **Decide on an internal process for supporting Commission Work Plan development** that
 - i. Ensures strategic alignment of Commission work plans with Council vision and / or goals, so that when Commissions develop their work plans there is synergy between FIG organisational objectives and the technical focus of the Commissions
 - ii. Ensures work plans are modern and reflect the needs of membership
 - iii. Ensures work plans are addressing the socio, economic and technical challenges of today e.g. rapid urbanisation, marine cadastre, earth dynamics, interoperability, UAVs, legal and data custodian rights and responsibilities.
5. **The Council initiate a discussion on the future role, strategy and vision of FIG** in order to understand what kind of structure is required to meet future needs / trends. This should be amongst Council and ACCO initially, and then the membership.
6. **The Council initiate a discussion on the role of the surveyor in the future to understand the capabilities and qualifications needed.** This should be amongst Council and ACCO initially, and then the membership.

Council should understand that there remains a substantial, albeit minority, group of Member Associations that do seek change within the FIG governance and Commission structure, reasoning that the organisation is not well-positioned to meet the impending challenges faced by professional survey organisations, companies and individuals. Present and new Councils should hence continue to monitor and listen to member associations on this theme and revisit in the future options to improve Commissions, the use of FIG Networks and Task Forces. Council should bear in mind that considerable time and effort is required to effectively engage with the membership on this issue, and it's possible that, for this current Task Force, the remit was simply 'too big' for the timeframe and effort available and that a much longer process of engagement and consideration is needed.

2. Terms of Reference for the Task Force

The Task Force was established at the FIG Working Week 2015 to review the Commission structure, and this was initiated by several requests from member associations. A first step was to evaluate the current structure and function of the commission and thereafter conclude whether any changes are needed. If it turns out that it might be advantageous to change the structure of the Commissions the Task Force was to identify possible changes.

Some questions to ask in this process were:

- Do we have the right Commissions?
- Do the Commissions have the right focus?
- Do we have a mechanism for the Commissions to interact more actively with each other, FIG members or working groups from other organisations?
- What do we need to change and why?
- How do we manage and implement structural change?

3. Method and Timeframe

The Task Force held physical meetings, internet based ones (e.g. through Skype) and also many email discussions during the first year to prepare a proposal for discussion at the FIG Working Week in 2016. The Task Force members, representing several of the Member Associations, were as follows: Mikael Lilje (chair), Brian Coutts (New Zealand), Stephen Djaba (Ghana), Henning Elmström (Denmark), Kate Fairlie (Australia), Brent Jones (USA), Jürg Kaufmann (Switzerland), Hansjörg Kutterer (Germany), Robert Sarib (Australia), Winnie Shiu (China), Rudolf Staiger (Germany) and late Karl-Friedrich Thöne (Germany).

After the discussions at FIG WW in 2016, the Task Force held during September and October 2016 meetings with Member Associations in Sounio (Greece) and Hamburg (Germany) as well conducted one internet based survey. A summary of the result of the questionnaire can be found in Appendix A. Several FIG individuals have also expressed their thoughts in personal communication as well as in written on the FIG structure as well as the Task Force findings. It has though been very clear that the Task Force and its discussion has caught the interest from a few member associations as well as a few individuals. These has been very much involved and interested. The majority of the member associations has been very silent in the discussions.

4. Key findings

A. No mandate for change to the number and/or content of FIG Commissions

From discussions held with the Member Associations at the 2016 Working Week and elsewhere following, two differing opinions on the matter of Commission numbers became apparent:

- i. Retain the number of Commissions¹
- ii. Support for less Commissions with more emphasis on Task Forces and Networks.

Discussions typically showed greater support for option (i), for the reasons that there was insufficient justification for option (ii) and that it was felt that fewer Commissions would less ably cover and promote the breadth of FIG disciplines. Also, it was believed among some members that many commissions (e.g. the ten FIG have today) would encourage more participation from a global perspective as well as from smaller member associations. A low number of commission would draw the interest from fewer but larger members association to chair them.

The FIG survey (questionnaire) of members conducted during 2016 also failed to provide a clear direction or mandate for change or no change. The survey was only replied on by 25 % of the members, a very small number and a disappointment to the Task Force.

The survey and discussions did, however, repeatedly emphasise that there remain some problems with the current structure, being both the internal FIG structure and the structure of Commissions, Networks and Task Forces. It is possible that directly addressing these problems (as recommended in the following key findings) will allow for more productive discussions on Commission structure in the future, and more clearly highlight a way forward (or clearer mandate to for no change).

¹ Or, arguably, to increase – although this perspective was not well discussed.

Discussions further highlighted (a) that several FIG Member Associations are going through processes of reviewing the role and future changes within the FIG profession, and that (b) the FIG does not currently address change very well. Hence there is a need for Council to keep the future of FIG front-of-mind, to revisit this and similar topics periodically and to proactively keep abreast of the findings of member association studies (eg. RICS).

B. Perceived need for change to the Commissions' Terms of Reference and Work Plan development process

Based on the survey and discussions, the Task Force formed the opinion that the content of the Commission work plans and the terms of reference for the Commissions required attention, and were contributing to some of the perceived failings of the existing structure. Providing support and/or minor changes to the terms of reference and work plan development process might contribute to some of the concerns highlighted about the FIG Commission structure.

FIG's relevance and profile is dependent on having active Commissions. The discussions at Working Weeks, Seminars and Congresses are important forums for professional development, but there remains a need to deliver tangible and substantial material to remain relevant and retain status with other professions and organisations. Such outcomes are predominantly driven and achieved by the FIG Commissions (and, less often, Networks and Task Forces). The FIG Council has a fundamental role to play in guiding, advocating and challenging the membership, via the Commissions, to produce relevant and authoritative material. They do this by supporting the integration and cooperation within and between Commissions (and Networks and Task Forces) and the membership, as well as by providing leadership in the form of the Council work plan and FIG's vision, goals and direction. A strengthened internal process is thus recommended to support the synergy between FIG Council vision and the Commission work plans, to ensure such work plans reflect the interests and needs of the membership and are forward-looking in terms of social, economic and technical challenges.

C. Mechanisms to monitor and evaluate the effectiveness and productivity of Commissions, Task Forces and Networks

There is also a clear need for a mechanism to monitor the work, achievements and/or performance of the three entities – Commissions, Task Forces, and Networks. This should be done regularly, ideally twice per year. Entities should present their status and describe the challenges they are facing, especially if they have problems fulfilling the work plan. The Council and the Entities should discuss how to solve them or amend work plans. This should then be reported at the annual General Assemblies. It is very important that the internal structure of FIG should consider themselves as a team. The Task Force believes that the current ACCO should play an important role in the governance in which we also could also include Task Forces and Networks.

D. Selection of Commission, Task Force and Network Chairs

One key element of having active and effective Commissions is of course to have the best or most appropriate Chair who will deliver an active Commission. Therefore, the process of attracting or selecting these active Chairs is much more than the voting at General Assemblies. FIG need to ensure to have an ongoing discussion within the Commissions with suitable candidates, FIG need to be active

in evaluating the nominations and FIG need to ensure that the Member Associations understand the role of the Commission Chairs. Once again such a process be managed through ACCO.

Regarding the process of identifying new Commission Chairs, the internal rules 11.4 state that

“a nominee shall preferably have played an active part in the activities of the commission for which he or she is being nominated as chair, and shall have demonstrated possession of the personal and professional capabilities needed to lead the work of the commission. In addition, the Council shall assure itself as to the nominees’ practical availability for service and that they have sufficient financial and administrative support.”

The Task Force believes that we currently have all the necessary mechanisms in the internal rules but we need to ensure that we follow them. The Task Force suggests that for the Commission Chairs Elect, the existing Commission officers should also be involved in the assessment of the candidate. The Commission has the possibility to actively suggest candidates as Commission Chairs but the candidate’s Member Association must always support the nomination. The Commission (and Member Associations) should also evaluate the candidates to make sure that she/he is able to fulfil the job, and has the required experience of FIG and the commission to understand the position and responsibility. The Commissions are one of the key “bodies” that have sufficient knowledge of their members and who are able to judge their FIG eligibility, subsequently Commissions should have the ability to also negotiate with the Member Association of the candidate they wish to nominate.

The formal process of recruiting Commission chairs and officers will be less onerous under the above approach. It is our suggestion that the Steering Committee of each Commission should be developed and include (at least) the Chair, the Vice Chair of Administration, the Working Group Chairs as well as one young surveyor, to ensure that the large workload of the FIG does not simply fall on fewer shoulders – and further work will be necessary to address this.

Some future consideration should be given by the FIG Council as to the operating costs of the FIG office, Council, Commissions, Networks and Task Forces. This Task Forces believes that having the three strong entities (Commissions, Task Forces and Networks) is a key of an improved and efficient FIG. However, these entities also needs to have a budget including incomes and costs. FIG should be prepared to include this in its overall budget. A support from FIG on an entity should also include expectations on them and therefore ongoing discussions on the progress of the work plan is needed. Finding an effective FIG should also include active corporate members and that they are involved in the process. Having them on board with their knowledge and expertise would also inspire them to sponsor the development of the work plans.

E. Confusion about the role and function of Networks and Task Forces

One aspect of the Task Force was to examine the internal FIG Structure alongside Commissions, such as Task Forces and Networks. There appeared to be some confusion around the understanding of how Commissions, Task Forces and Networks interact, with the dominant understanding that they are entirely separate entities.

It is the strong belief of this Task Force that these three entities should form the “engine room” of FIG, fulfilling linked, complementary but non-overlapping functions. There is considerable scope to improve the collaboration of these entities to promote the health and productivity of the FIG “engine

room". Fundamental gaps within the Commission structure that Task Forces and Networks can address include:

- Flexibility, adaptiveness (particularly with regards to 4 year terms)
- Shorter reporting/operating/deliverable timeframes
- Better cross-Commission and cross-profession collaboration
- Narrowness of scope
- Provision of opportunities for short-term and mid-level leadership roles
- Ability to address megatrends and emerging challenges (technical, environmental, social)

There is scope to articulate the structure and intent of these entities better, and to review how they could be made more effective (for example, by reviewing the process of the formation of Networks; and by reviewing the "status" of each entity within the FIG).

Professional Task Forces may be used to deal with contemporary, emerging and/or interesting issues established by the Council, at the request of the Member Associations or Commissions.. Professional Task Forces take care of emerging issues of the societies, e.g.: energy transition, climate change, land grabbing, rapid urbanisation, poverty reduction, regional development, etc. This approach would free Commissions up to focus on core discipline skills and promote greater coherence between terms, whilst promoting collaboration between Commission more effectively.

Fundamentally, Professional Task Forces should operate outside of the four-year term restriction, in order to be more flexible and adaptive, and to promote the availability of leadership roles. To date, the number of Task Forces has been limited and this mechanism could be more effectively used to promote leadership pathways and extend and increase FIG outputs.

Networks have the capacity to play a larger role within FIG and it is the finding of this Task Force that this be promoted. Networks should work across the Commission structure, and there should be a direct link through personal resources between the Networks and the Commissions. Again, this acknowledged partnership should foster additional mid-level leadership roles to promote a pathway to greater engagement within FIG. Currently Networks address Young Surveyors, Standards and Regional Capacity Development. There is an opportunity for networks to also address areas of key interest (such as the emerging issues listed above) where these are deemed to be sufficiently 'trans-Commission' and of sufficient interest over time (ie: minimum 4-year term).

FIG Task Force on Commission Structure

Compiled summary of the responses on the Questionnaire to Member associations, affiliates, academic and corporate members- 2016

On behalf of the task force; Mikael Lilje, Mikael.lilje@lm.se

Introduction

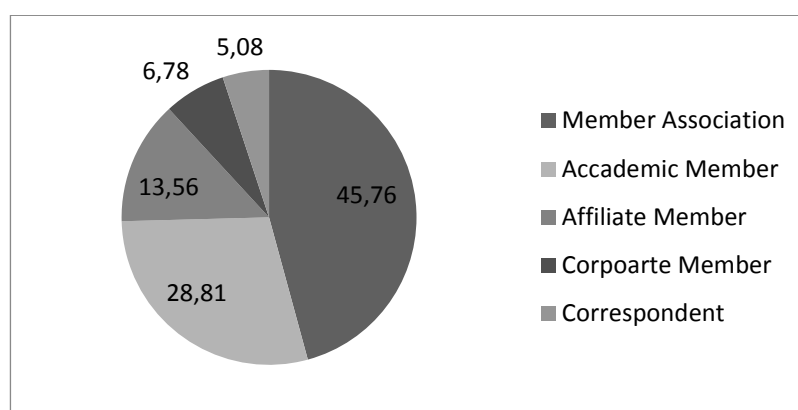
To assist with the Task Force’s work to consider how FIG is responding to the emerging and ongoing challenges of the surveying and spatial community, a questionnaire was sent to members in July/August 2016. The process was built on the early draft proposal presented at the FIG Working Week 2016 in Christchurch, New Zealand, available at: http://fig.net/organisation/general_assembly/task_force/commission_structure_2015.asp.

At this Working Week there was wide consultation with the Member Associations, and this questionnaire was the start of a process to more fully consult with the Member Associations, Affiliates, Academic and Corporate Members and to seek views on the current Commission structure, strengths and weaknesses, and possible structural change.

Questionnaire and summary of responses

Are you replying on behalf of a:

Member Association	Academic Member	Affiliate Member	Corporate Member	Correspondent
27	17	8	4	3



59 returned the questionnaire for a response rate of 21,69 percent. Divided on member categories –

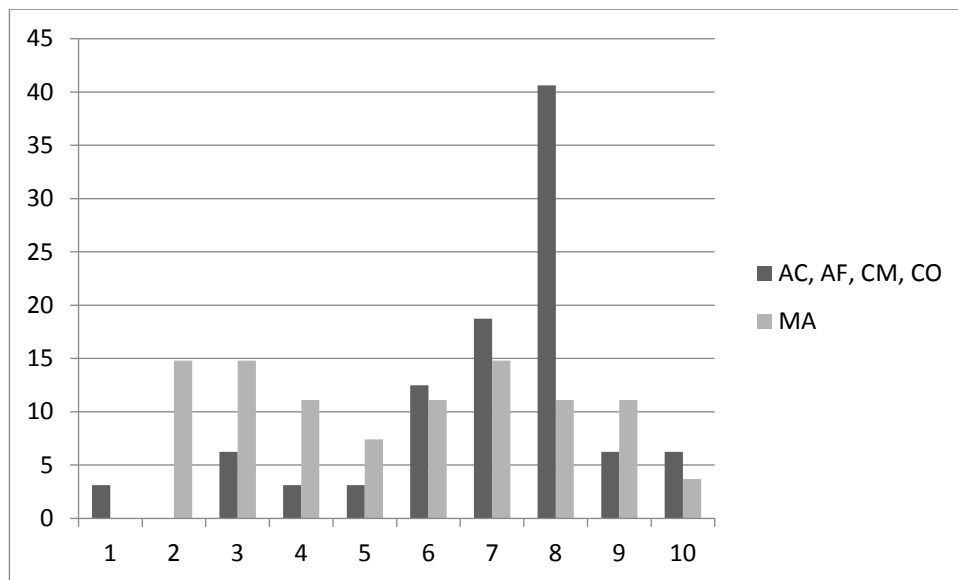
Member Association	Academic Member	Affiliate Member	Corporate Member	Correspondent
27/105 = 25,7%	17/92 = 18,5%	8/49 = 16,3%	4/25 = 16%	3/1 = 300%

On a scale from 1-10 please rate the current FIG Commission structure (names, content, terms of reference) with respect to fulfilling the needs of FIG for the future:

Definitely will not meet
all needs

Will meet

	1	2	3	4	5	6	7	8	9	10
All	1	4	6	4	3	7	10	16	5	3
All - %	1,69	6,78	10,17	6,78	5,08	11,86	16,95	27,12	8,47	5,08
Member Association		4	4	3	2	3	4	3	3	1
MA - %	0	14,81	14,81	11,11	7,41	11,11	14,81	11,11	11,11	3,70
Academic Member	1					2	3	8	2	1
Affiliate Member			1		1		2	3		1
Corporate Member				1		1		2		
Correspondent			1			1	1			
AC, AF, CM, CO - %	3,125	0	6,25	3,125	3,125	12,5	18,75	40,625	6,25	6,25



Summary;

Looking at all responses it is clear that the majority believes that the current structure fulfils to a large extent their need. However, the majority is clearly from the Academic. The member associations are

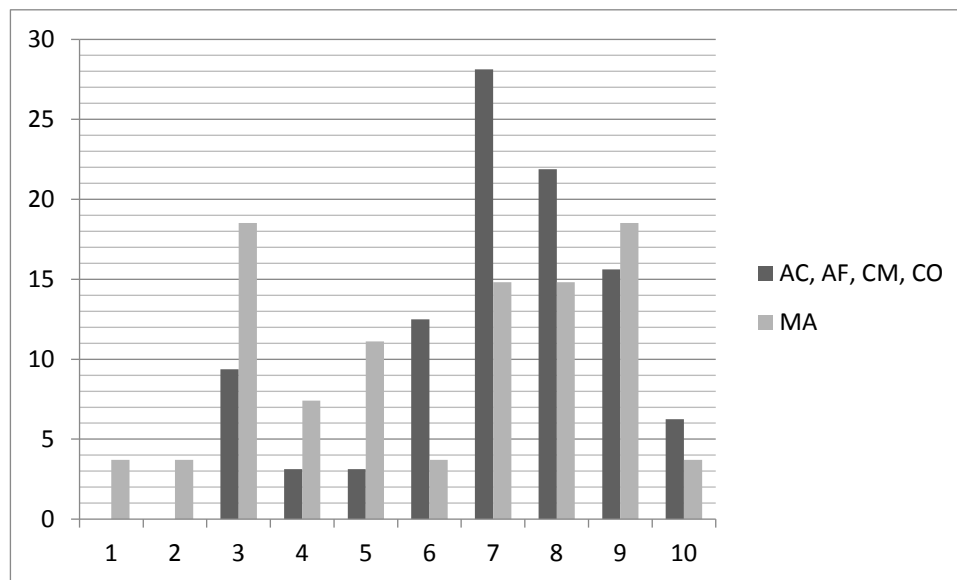
not giving a clear response. This is something that can be found in most responses, that the member associations and the academic members have different opinions.

Does the current commission structure reflect the work of surveyors satisfactorily (with scale from 1-10).

Definitely does not reflect

Does reflect

	1	2	3	4	5	6	7	8	9	10
All	1	1	8	3	4	5	13	11	10	3
All - %	1,69	1,69	13,56	5,08	6,78	8,47	22,03	18,64	16,95	5,08
Member Association	1	1	5	2	3	1	4	4	5	1
MA - %	3,70	3,70	18,52	7,41	11,11	3,70	14,81	14,81	18,52	3,70
Academic Member			1			3	4	4	4	1
Affiliate Member				1	1		2	3		1
Corporate Member			1				2		1	
Correspondent			1			1	1			
AC, AF, CM, CO - %	0	0	9,38	3,13	3,13	12,5	28,13	21,88	15,63	6,25



Summary;

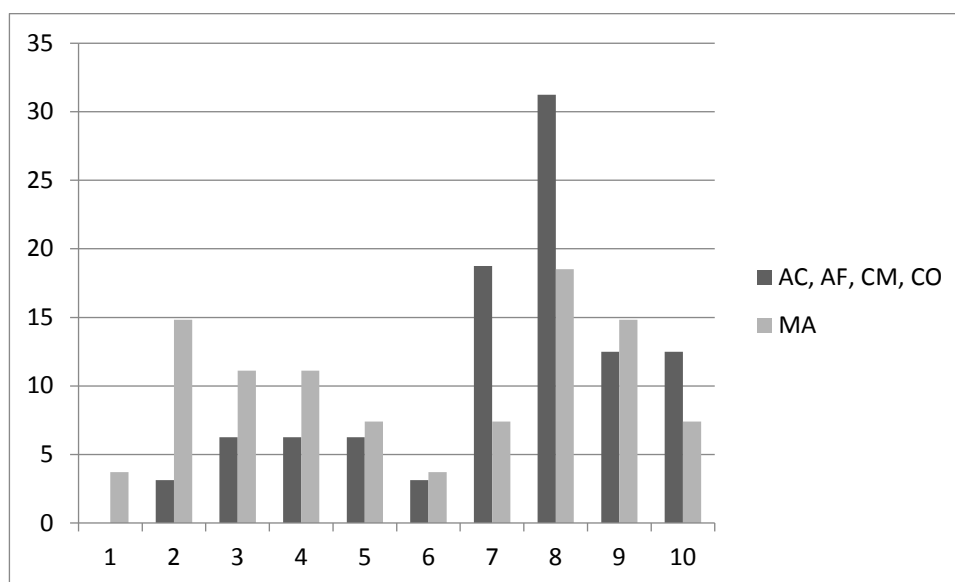
Looking at all responses it is clear that the majority believes that the current structure fulfils to a large extent their needs. However, the majority is clearly from the Academic. The member associations are not giving a clear response.

On a scale from 1-10 please rate the current FIG Commission structure with respect to fulfilling the needs of your organization for the future:

Definitely will not meet

Will meet all needs

	1	2	3	4	5	6	7	8	9	10
All	1	5	5	5	4	2	8	15	8	6
All - %	1,69	8,47	8,47	8,47	6,78	3,39	13,56	25,42	13,56	10,17
Member Association	1	4	3	3	2	1	2	5	4	2
MA- %	3,70	14,81	11,11	11,11	7,41	3,70	7,41	18,52	14,81	7,41
Academic Member				1	1		5	5	3	2
Affiliate Member			1	1			1	3	1	1
Corporate Member		1				1		1		1
Correspondent			1		1			1		
AC, AF, CM, CO - %	0	3,13	6,25	6,25	6,25	3,13	18,75	31,25	12,5	12,5



Summary;

Looking at all responses it is clear that the majority believes that the current structure fulfils to a large extent their needs. However, the member associations are not giving a clear response. In fact, very much a difficult result to draw any conclusions from.

Please describe the main strengths of the current FIG Commission structure.

Below are all the text responses. No editing done;

Member Associations

Hard to think of any - its outdated and served its purpose.

Participation in commissions is open to all members of the member associations.

Covers wide range of disciplines

It is strong in land surveying disciplines.

Range of surveying profession is quite comprehensive.

covers all Topics of surveying

some commissions are definitely very efficient and productive, good output, high relevance regarding the paper output

The strength of the current strutur with many commissions with many different disciplines is that FIG signaling professional diversity. At the same time there is a real opportunity to both "big" and "small" members have a real opportunity to get a "position" in FIG.

Diversity

The possibility to have presentation of studies, researches, technological upadting, scientific evolutions, ect, withing a coherent framework of matter corresponding to each commission.

The most relevant professional topics are more or less covered.

well represents the whole kind of surveyors activities

Actively covers the Land Surveying professions

it is flexible

Wide coverage of all needed topics

Flexibility

hydrography is driven by the International maritime organisation

The current structure is broad based and reasonably flexible, it can evolve to cover growing and emerging sectors. A good example is how Comm 10 has embraced BIM. The global sectors of land, property and construction cross over within many of the current commissions and represent the broad based global surveying profession. There is also scope to allow more specialist sectors space (geodesy etc) within groups that use their services.

Very broad range of activities

covers all the disciplines of the surveying profession

Good chairmans of commissions,

This structure shows a strong link with basic disciplines that constitute the surveying profession.

Provision for focus on particular areas/expertise

The current commission structure reflects the diversity that is among the surveying professionals working areas and disciplines. The structure creates a space where the personal professional can both contribute to the development of the profession and can be inspired. In this way the commissions are the de facto link between the FIG and the "members" / participants.

The structure is sufficiently diverse for covering all aspects of the surveying disciplines and all surveying professionals can find a home base within FIG that reflects their personal professional profile. This way the structure enables for all professionals to contribute to the FIG

only a few active Comm. (e.g. Comm 7)

Covers all the main activities of surveyors

Academic Members

Individual commissions have the flexibility to respond to emerging issues relatively promptly. Therefore, although the structure of the commissions does not necessarily reflect current issues, what the commissions do does.

The FIG Commission structure is mainly builded with reference to basic scientific disciplines (fields) of surveying. The structure shows the disciplines division that is used by academic institutions to constitute an education curriculum. It is grounded into sciences, but lack sometimes the agility to adapt to new issues and challenges.

Very happy with the Academic Commission.

Its correspondence with concerned member associations; Dissemination of reports; call for conferences and working week meetings

From our perspective, Commissions 1-7 (and partially Commission 8) reflects the breadth of Surveying activities that we teaching and the industry currently functions. Support for developing countries, especially with respect to land tenure reforms.

Different activities/jobs of surveyors are covered.

Place for all the different disciplines/domains within surveying or related to surveying

Well-known areas which are clear in practice and also in academy.

consistence, tradition

-

Full spectrum of activities engaged by surveyors and geospatial professionals.

As it stands there some duplications of area of interests or coverage of some commissions this means if a particular item is missed by one commission another can take it up. And similar topics can be discussed by more people. This would give better solution and In-depth analysis.

Clear separation of areas no much overlap

Good relation between professionals and science

established groups that know each other; historical linkages with certain organisations (e.g. land sector agencies); sub-disciplines feel 'at home'

Develop contacts with other academic people

It provides a professional and academic base for surveying academics within all disciplines - as well as a general base within Com 2

Affiliate Members

it allows participants to appropriately focus their interests

- each Commission has flexibility to adapt to new developments
- Commissions are "home", delegates can find a place within the FIG, and be active and make their contributions there (less and bigger Commissions would not provide the same)

The current FIG Commission structure includes almost all needs of the State Land Service qualification and experience

It's a well-known structure, with a lot of traditions and good networks in each Commission.

The current FIG Commission structure broadly addresses significant areas of study.

The current FIG Commission structure had served the interests of surveyors worldwide. It covers the large range of professional fields within the global surveying community which provides an international forum for discussion and development aiming to promote professional practice and standards under various commissions.

The willingness to keep Hydrography as a main topic

Corporate Members

Every area has a 'home' and are named.

Provides focus of the traditional roles of a Surveyor

Cover almost of all application industries of surveyors

The surveys conducted with support from FIG will lead to development of third world countries

Correspondent

Variety of fields or areas of expertise

broad field of possible professional activities

I am a member of Commission 4 and I must accept that recently it has been moribund. However this is due to the current and immediate past leadership and does not mean that Commission 4 is irrelevant to the international hydrographic community. On the contrary I believe that Commission 4 has a significant role to play representing hydrographic surveyors on the international stage to bodies such as IHO. It is because FIG is well respected internationally that the voice of the international hydrographic surveying community can and will be heard by re-invigorating the Commission

Please describe the main weaknesses of the current FIG Commission structure.

Below are all the text responses. No editing done;

Member Associations

Participation and Communication in many Commissions is Lacking. Got little focus as commission names don't necessarily reflect real world practice and relevance.

The member associations are not closely enough involved in the work of the commissions and therefore do not generate strong interest in the commissions and especially in the LEADERSHIP of the commissions.

Dont know

It is inferior and inadequate in the property related surveying professions.

Too many commissions and resources are then weaker. Focus of some commissions are overlapping.

outcomes of some commissions are almost zero! missing cooperation between comm.

to many inactive commissions, lack of guidance, lack of coordination, work plans have to be assigned by the GA, the Acco,

The current diversity commission structure has the inherent weakness that some commissions in times will be relatively "weak" and with modest activity.

Inefficiency

Some Commissions include same topics which should be specific for the single commissions.

There is no real instrument to establish cooperation between the different FIG Commissions. There is no real instrument to cover cross-section topics. There is no real quality control mechanism in terms of work progress.

too much technical sessions during WW and Congresses

Not enough involvement of the other Surveying professions Quantity Surveying and Estate Surveying

some are stronger than others

Too fragmented and therefore there is lack of co-ordination

lack of volunteer members (and likely to get worse)

hydrography is driven by the International maritime organisation

The success of a commission does seem to rest wholly on the energy and input of a very small group of volunteer members especially the chair. This is only likely to increase and work pressures increase on those who traditionally have been able to give up a lot of time such as Academics. To

encourage more survey industry input this needs to be reviewed. Embrace modern technology more? The FIG Commissions rarely use social media for instance, more input from professional expert staff?

No real cohesion between the different commissions

it is rather good... i dont see any weakness in the current structure

The subject connected with name of commission doesn't suit what is in different country in this subject. A few commission should be connected, a few new should be established

This structure can hardly address new issues that combine inter-disciplinary aspects, knowledge, and challenges. The division of thematics that are now closely linked (like those manage by commissions 7, 8 and 9).

cross over between the commissions not adequately dealt with

There are big differences in the organization and operation of the various commissions - this is a condition for commissions relying on voluntary contributions. But a weak and diffuse leadership of a commission may have negative influence on the engagement about the commission's work. Commission chairs should be equipped by the FIG for the job in a kind of reconciliation of expectations to management and performance.

The strength and level of activity of the individual commissions depend to a high degree on the commitment of the current chair. However, this may be a basic condition for an organisation depending on voluntary contributions. The chairs should be supported from various sources such as ACCO, FIG Office and the hosting member association.

lack of cooperation between Comm., number of Comm. is too big- contribution and participation for a member is too high, inefficient structure,..

Some commissions have low activity suggesting that the structure is no good

Academic Members

There are too many commissions that have too small an active membership to be viable. It seems that relatively few member associations appoint representatives to all commissions or if they do, that those representatives take an active role in the commissions. Few member associations seem to have a proper reporting function for representatives back to their memberships. Perhaps if the smaller member associations had to support the work of a smaller number of commissions, they might be better able to manage the resources needed to do this.

The main weakness relies on the multi-commission issues that don't fit within the actual structure. Some task forces are intended to counter-balance this weakness, but it has a limited effect. A comparison can be made with scientific research structure in geomatics whereas it was characterized by its basic disciplines in that 1980-1990s; this structure became inadapted in the

years 2000s to confront new challenges (sustainable development, climate warming and change, globalized economy, social tenure, ...) and need to adapt to cross-cutting issues.

Current structure may have some overlap.

Inability to sponsor/fund or building the capacity of newly emerging associations

Possibly what is not supported is the spatial analysis applications. GIS is not strongly supported.

Some of the Commissions does not show too much activities. This has its reasons by having few (active) members and/or by non-active chairs (talking instead of acting).

Some commission's very big, other's very small

Some want to broaden their areas to other's areas.

None

-

Does not reflect the concentration of activities, nor the degree of benefit or impact on society, nor future trends. Too many separate and "equal" commissions does not reflect the technology & applications associated with different sub-disciplines.

There is no way of ensuring that members of various associations join at least one commission, to some conference attendees, FIG working week or Congress is a holiday. Some do more shopping than contribute intellectually at conferences.

Hard to include new topics (for example drones)

The proportion of scientists among FIG members is not too good. Most research work refers to the existing but not advanced and developing technologies

sometimes new trend falls in two/between two (or 3) commissions; inter-comm WG have been able to deal with this often though

The academic side of FIG is a bit weak

Non really ... the possibility for academic members to allocate academic delegates to the commission is much appreciated.

Affiliate Members

i don't know what some of the commissions do

- lack of leadership in some Commissions
- lack of cross-information between Commissions
- gap of understanding between conceptual design and "grassroot" surveying activities
- a weakness may not be the Commission structure itself, but more the way as

The current FIG Commission structure does not include body dealing with strategical issues regarding development of unified real property registration system (Cadastre and Land Registry), including next generation Vision of Cadastre 2036.

some questions demand detailed study and comprehensive discussion

Doesn't really fit the political, more holistic, areas in which FIG has become more and more important during the last decade. And it doesn't reflect the way the surveying profession has evolved . A lack of Communication between Commissions and also different levels of activity when you compare the Commissions.

There is overlap in some commissions. For example, standards and education are crosscutting.

Looking at the advancement in technology the role of the surveyors has transformed with the rate at which technology has changed over the last few decades. World is already facing the transformation from analogue to digital and from digital to space borne surveying. This massive technological advancement has not been addressed yet in the current FIG Commission structure.

Not clear if duplication is taking place in Commissions of similar topic coverage.

Corporate Members

Too many Commissions - resources are spread too thin.

Too many Comissions, and not necessarily future proof

Overlap of criterion and functionality of Commissions

The country by country coordination mechanism is not yet strong enough. we would need regional offices to reach out to

Correspondents

Overlapping or redundant sub areas or subtopics

structure born by hazard

From my experience from Commission 4 I suggest these would revolve around

Lack of succession planning

Lack of cooperation between Commissions (silo mentality)

Lack of communication with Commission members

Apparent lack of support for Commissions from FIG Office

Weak leadership

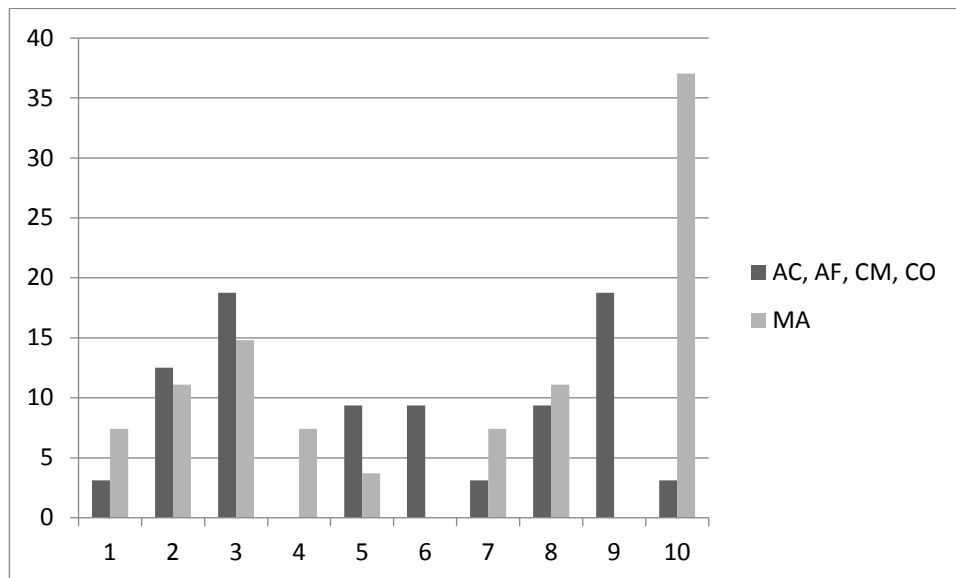
Lack of direction from FIG Council

On a scale 1-10 please indicate if you believe there is a need to change the current FIG Commission structure:

No change needed

There must be change!

	1	2	3	4	5	6	7	8	9	10
All	3	11	10	2	4	3	3	6	6	11
All - %	5,08	18,64	16,95	3,39	6,78	5,08	5,08	10,17	10,17	18,64
Member Association	2	3	4	2	1		2	3		10
MA - %	7,41	11,11	14,81	7,41	3,70	0,00	7,41	11,11	0,00	37,04
Academic Member	1	4	3		3	3	1		1	1
Affiliate Member		4	1					2	1	
Corporate Member			1					1	2	
Correspondent			1						2	
AC, AF, CM, CO - %	3,13	12,5	18,75	0	9,38	9,38	3,13	9,38	18,75	3,13



Summary;

Once again, the difference in opinion between the academic members and the member associations is clear. The Academic do not believe that a change is necessary but the member association see a need to modify the structure, even though several of the responses believe that a change is not necessary. But, eight (8) of the responses from the Member Association responded with a 10 on the scale.

IF you believe that a change is needed, what would be the main drivers (reasons) for change you're your perspective?

Below are all the text responses. No editing done;

Member Associations

Technology and Business does not match the Structure of FIG. Why have Com 5 separate to Com 6 (for example) - Outsiders would say why split resources of FIG into 2 commissions when they talk the same language at the end of the day - Surveying.

The problem is not in the composition or assignment of duty to the commissions; the problem is in the weak involvement of the member associations directly in FIG.

FIG has to include a broader professional coverage relating to surveying professions in general land and property market.

To clarify FIG:s role with profession and other organisations. To simplify the administration.

break down the "fences" and look for more cooperation; fulfill the needs of surveying community; better cooperation and more effective work;

less commissions, clear goals and tasks assigned by the GA, more Task Forces as a reaction to societal mega questions. Follow the proposal of Mikael Lilje, this is exactly the right way!

There are three primary reasons for changing an existing commission structure:

- 1 - the structure does not cover the professional areas or the "needs of society"
- 2 - there is overlap between commissions
- 3 - it is difficult to drive the existing structure due to the resources and professional interest
quicker response on current challenges

The number of commissions is an apparent problem. What should be focused is that to each commission are assigned specific and non-overlapping or double areas of competence.

FIG must become both more efficient and more effective. FIG needs to exploit its full expertise for professional purposes. FIG needs to develop and promote professional positions within its own community and beyond looking at sister organizations and at the governmental level.

More engagement of the other Surveying professions of Quantity Surveying and Estate Surveying.

future issues

More flexible structure

more commissions, more flexibility, more direct expert staff involvement

New technologies and methodologies coming online so quickly.

Some structural change is needed (Comms 5 & 6 should be amalgamated into one) but any wholesale change could have long lasting consequences for FIG and its future viability. Any move towards fewer commissions (especially the current proposals) would inhibit any growth and be a backwards step. surveying is a broad profession and FIG needs to reflect this in its structure.

Better integration between commission, clear projects lead by FIG

no change needed

Point 6

The need to address multi-level, interdisciplinary issues like climate change, massive migration, globalization, technology development, regional specific problems, ...

Changes in the professional "scope" should be the primary driver for extension or modification.

Any changes might relate to minor adjustments to be agreed by ACCO

and the Council. Any major changes should relate to a wider FIG vision for meeting future challenges. results of Comm. work is better balanced and gives a better picture; close and effective cooperation between Comm., contribution as a member organisation is less cost intensive; best suit the structure of the committees to the surveyors main activities

Academic Members

Too many commissions that have too few active members to undertake viable work.

To adapt the FIG Commission Structure to these new issues and challenges that are not disciplinary, but are conditioned by social, environmental, economical, and cultural needs.

Look at how new technologies fit into current structure

Being representative of the functions that the current (and future) surveying industry.

Commission structure should reflect the general competencies of surveyors (valid over decades or centuries). This should be changed if these competencies change; not when new topics arise that could be solved/worked on with the already available competencies. For new topics/ mega trends we have task forces.

More balanced commissions in terms of active members

More manageable conferences, more inter-connections between geospatial sub-disciplines, more recognition of the dominance of some sub-disciplines.

To bring in more environmentalist since all we as surveyors do is in the environment.

Possibilities for easier conformation of taskforce

From my point of view the drivers must be the scientists who promotes new technologies into practice

perhaps 2 cases of 2 comm. could be merged

Important to maintain Commission 2 as a separate commission (and not merged with Com 1 into a Network)

Affiliate Members

- outside-in thinking must be more part of FIG activities (in terms of products and clients needs)
- global outreach for each Commission

Suggestion of the State Land Service to widen the function of Commission 7 "Cadastre and Land management" with the issue regarding development of unified real property registration system (Cadastre and Land Registry), including next generation Vision of Cadastre 2036.

Achieve a greater flexibility, more focused work, more innovative

Maintain the broader areas of study and better relate crosscutting tasks.

The current structure does not fully address the role of surveyors in today's context rather there are overlapping of areas of field in the commissions. For example commissions 1, 2, and 3 can have various overlapping areas that can create ambiguity.

To incorporate some topics of modern concern that does not seem to be covered

Corporate Members

More consistent Commission output. Broader international appeal.

Avoid duplication in administration and group like-minded professionals

Because of new applications based on new technologies

Not a change but expansion to create regional offices

Correspondent

More defined goals and based on current definition of who the surveyor is.

in view of the rapid changes the structure must concentrate on key capacities of the surveyors.

I don't believe whole sale change is required, merely a re-invigoration lead by FIG Council.

Commissions reflect the work of the international surveying community getting rid of them would dis-enfranchise surveyors and make member associations question the value of FIG membership.

IF you believe change is needed, what would be the primary or main change to the FIG Commission structure that you would like to see implemented?

Below are all the text responses. No editing done;

Member Associations

Aligning common work areas together and ending up simply with - professional matters (including ethics and education), Engineering Surveying, Land Surveying and Land Management, Land Planning, Construction Economics and Management.

FIG needs to amend its old policy on the fee structure. Allow new property members to pay less - as reflecting by the ratio of commissions.

Fewer commissions, stronger networks. Role and division of labor between these two.

reduce number of commissions and have a better cooperation between comm.

less commissions (4-5), more temporary working groups/task Forces, good governance in the triangle commissions, Acco, GA

less commissions with permanent tasks and more task forces of interdisciplinary experts for a special challenge

See answer 8, and it should be given different emphasis to the contribution from the academic world comparing to the professional one with regard to the value of the research and the value of experience

FIG needs a concentration of competences for proactive and quickly reactive actions, respectively. Related topical issues should be handled in one, unique commission. Cross section issues should be handled in inter-commission networks. For efficiency and effectiveness, the number of such components needs to be as small as possible without losing thematic coverage or resources.

More involvement of the other Surveying professions and seeking better collaboration and networking to foster a vision of effective management of the earth's resources beyond land, geospatial and hydrographic surveying.

more evolution

broad based, global, sector driven, not tech driven

Less commissions

Consider more commissions with direct sponsors and professional support, reduce 'technical measurement' and technology led commissions, expand and integrate more soft skills (mediation etc) into com-missions and increase valuation, development economics and property related skills. The real issue with the entire proposal for change is the constant return to geospatial and its centrality to FIG. Geospatial is just one element of surveying, a core element, but is useless without context. Any overt focus on geospatial is a backwards step and could severely affect the

ability of broad based professional member associations to maintain a full and meaningful dialogue with FIG (such as RICS). FIG is about far more than geospatial and looking at recent technological developments that technician level of membership is only likely to increase.

No strong feelings about the structure but I think we need better interaction

no need

Name and task, subject of acting

To reinforce the collaboration between commission, to generalize the use of task force, ...

less number of Comm.- max 5; clear agenda and topics for each, Comm- based on a vision + strategy of FIG; periode of work max. 3 years

Revision of the themes and number of Commission (followed shortly by a revision of the working groups within the commissions)

Academic Members

There should be two types of commission. One is to ensure that surveying specialisations continue to be represented in FIG eg hydrographics. These may be small commissions but are likely to have enthusiastic members. The other type should be "catch all" commissions with broad remits that enable them to respond quickly and flexibly to emerging issues. The way Commission 7 has operated is a good example. There may still be 10 commissions in this structure but it would contain a mixture of clearly defined specialist commissions and several with a broad remit.

A Commission Coordination Unit, that could address those cross-cutting issues.

Interest in new technologies that are not presently addressed.

A a restructure of Commissions 8-10 (preferable) or new Commission (less preferable)

So a change would be needed only if competencies are changed or FIG agrees on they do not belong to the tasks of a surveyor. The main possible changes I see are for Commission 4 and 10. There are other international organizations active in these fields. FIG can say: (1) let these organisations work on these fields or (2) let try to attract people working in these fields to FIG. Personally I would say (2) for Commission 4 and (1) for Commission 10.

The idea of combining Commission 1 and 2 and see it as a Network is great. This change is perfect.

For example have a look at FIG Commission 7. Why so big? Need to split or reshuffle with other commissions.

Fewer commissions, merged in such a way as to support more inter-connections between sub-disciplines.

Create a commission or Task once for worldwide intervention on geospatial needs of disaster areas. Or form SURVEYORS WITHOUT BORDERS

Everything depends on the commissions, so there is no unified advice

groups that are strong and motivated enough to work actively

No change needed

Affiliate Members

- each Commission would have to live up to certain principles, deliverables, etc.; if a Commission cannot fulfill those, there must be some consequences

Suggestion of the State Land Service to widen the function of Commission 7 "Cadastre and Land management" with the issue regarding development of unified real property registration system (Cadastre and Land Registry), including next generation Vision of Cadastre 2036.

Fewer Commissions, with task forces set up for specific areas of work

Eliminate commissions 1 and 2 and form a matrix approach on these aspects across the other eight commissions.

The FIG Commission structure must be such that every commissions must be distinguished with one another and must clearly define the scope of the area. Furthermore, the new commissions satisfying the needs of technological advancements must be integrated into the structure of FIG.

It is the addition of components related to climate change and environment, where FIG Commissions are key players, but does not seem to be expressed in such way.

Corporate Members

Go to four Commissions.

Consolidation of Commissions, proposal of 4 new Commissions would be satisfactory

To setup new Commissions related to Disaster Monitoring, Transportation (Railway, Metro, Road) Surveying, Indoor Mapping and Positioning

Regional offices bringing on board many of the unrepresented groups

Correspondents

Reconsider having real estate management and valuation as another commission. (From proposed 4 to 5 commissions)

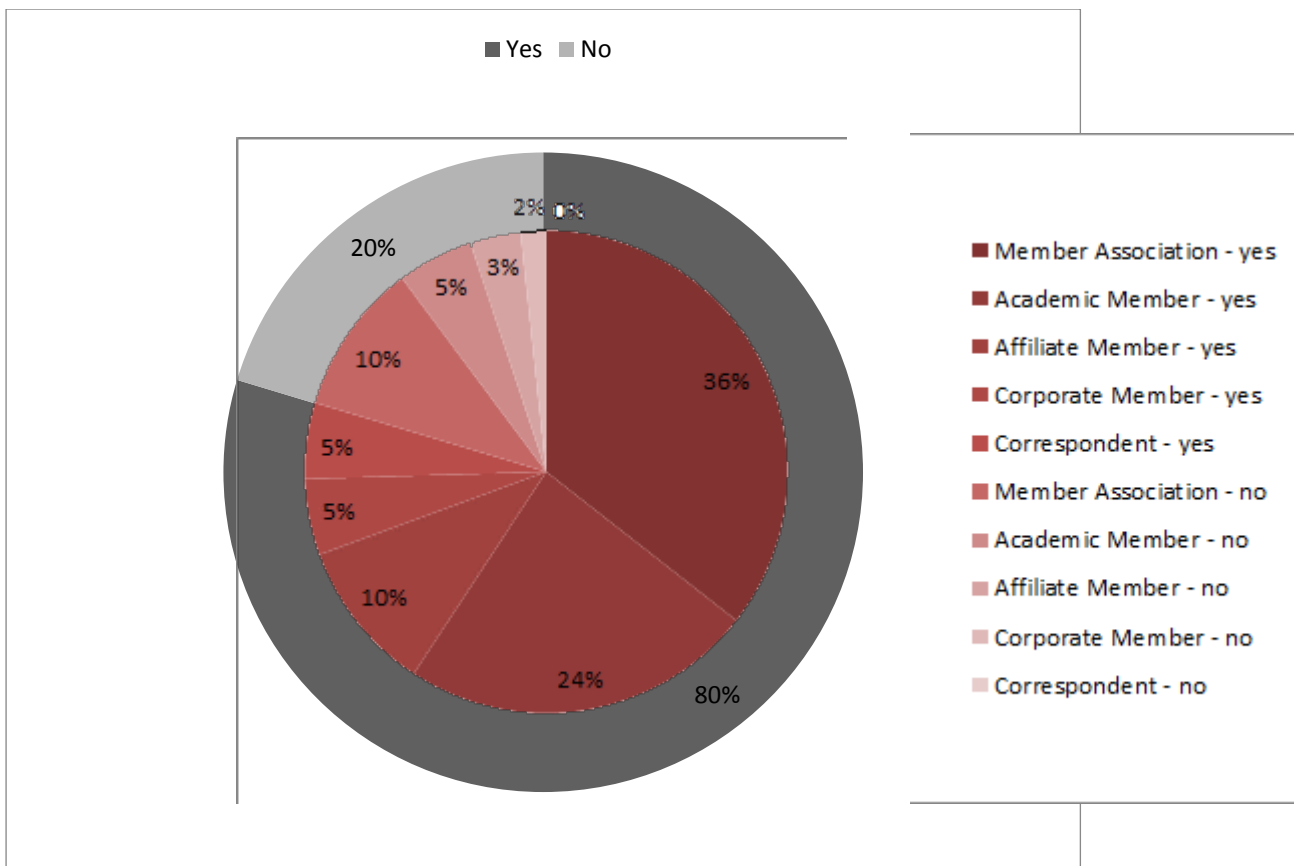
less commissions, adequate representation of cross-sectional functions

I would like the Commissions to remain but would like to see changes implemented in the way they function. Commissions need to be relevant, vibrant and forward thinking. Several are chaired by academics, which in itself is not a bad thing as they have the budget to enable international participation however Commission agendas/work programmes need to be set for the benefit of the surveying discipline they represent.

The Task Force was asked to review FIG Commissions only. The Task Force proposal presented at FIG Working Week 2016 suggested that Task Forces and FIG Networks be included in the structural review as well.

Should the structural review also include Task Forces and FIG Networks?

	Yes	No
All	79,66% (47)	20,34% (12)
Member Association	35,59% (21)	10,17% (6)
Academic Member	23,73% (14)	5,08% (3)
Affiliate Member	10,17% (6)	3,39% (2)
Corporate Member	5,08% (3)	1,69% (1)
Correspondent	5,08% (3)	0,00% (0)



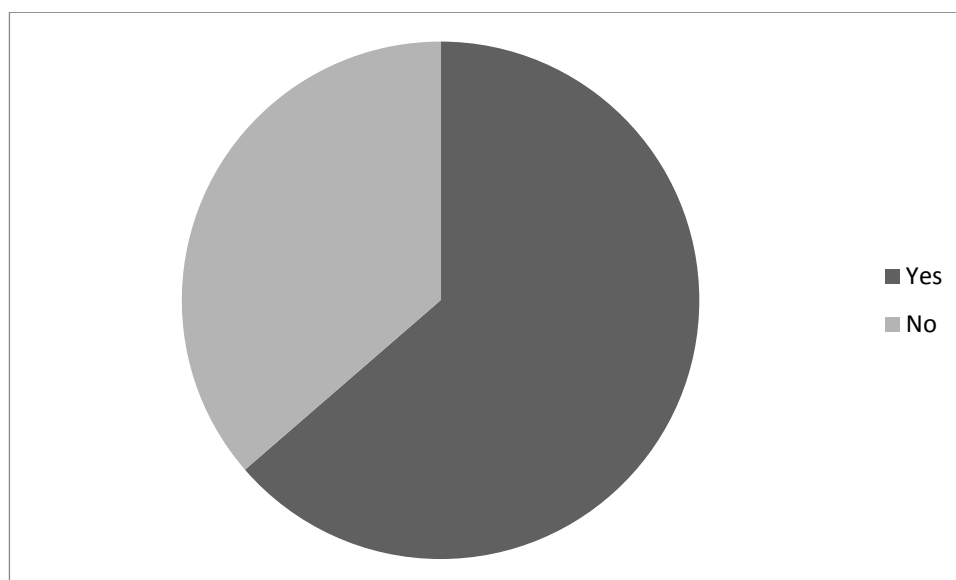
	Yes	No
Member Association	77,78% (21)	22,22% (6)
Academic Member	82,35% (14)	17,65% (3)
Affiliate Member	75% (6)	25% (2)
Corporate Member	75% (3)	25% (1)
Correspondent	100% (3)	

Summary

Yes, the task force should also include task forces and Networks in the work.

IF we can include Task Forces and Networks, should the review also include the role and function of ACCO with respect to Commissions?

	Yes	No
All	63,64% (35)	36,36% (20)
Member Association	29,09% (16)	16,36% (9)
Academic Member	18,18% (10)	10,9% (6)
Affiliate Member	7,27% (4)	5,454% (3)
Corporate Member	3,63% (2)	3,63% (2)
Correspondent	5,45% (3)	0% (0)



	Yes	No
Member Association	64% (16)	36% (9)
Academic Member	62,5% (10)	37,5% (6)
Affiliate Member	57,14% (4)	42,86% (3)
Corporate Member	50% (2)	50% (2)
Correspondent	100% (3)	0% (0)

Summary

Yes, the task force could also include the role and function of ACCO even though this is not as clear as previous question.

IF you answered YES to any of the above, please suggest structural changes or initiatives that could be implemented to improve the internal structure including Commissions, Task Forces and Networks to insure a structure prepared to meet the future challenges and opportunities for our profession.

Below are all the text responses. No editing done;

Member Associations

ACCO or similar body should be represented equally by commissions and networks.

include Task Forces to the commissions; build a clear structure with clear responsibility

closer cooperation between the commissions and between commissions and Acco, definition of main topics of technical and image work for the surveying community, more preparatory work of commissions, task forces and networks for professional policy making

The council should have the right giving direct instructions to commissions to have response on a specific topic in a specific time

I disagree to replace the commission with task forces and networks without any economic and scientific advantage, but with the disadvantage that the chair of commissions are elected by the GA while the task force by the Council.

I fully agree with the position paper presented in Christchurch.

The proposed change in 4 commissions only is too radical. Some commissions could merge, e.g 1+2 (but in the name of commission should be clear the activities: e.g. "Professional education, standard and practice"), then maybe 3+8, 5+4. Important is to keep the name of former commission in the name of new one (to see in the names of commissions all activities of surveyors). Only small commissions with weak activities should be merged into the most close former commission with new name (even though the new name will be longer).

this needs real debate and should not be rushed, the wrong decision could cripple FIG and lead to members assocs leaving

The governance of FIG needs review and expansion. The commissions, ACCO etc all need to support the executive team of president and vice presidents. The larger member associations should have (much like the corporate sponsors) a platform to explore issues of mutual benefit. The Regional Groups meeting (first held at NZ 2016) is a good step towards this and other bodies really need to support this initiative.

I don't understand the question above and thus would like to answer neither yes nor no (Q11 I cannot take away my trial answer). I think we should have the opportunity to answer more freely to this questionnaire.

I support the official creation of the Council of Regional Bodies and use outcomes of this Council to help steering the ship.

Review commissions' division and labelling, implement a collaborative (and non-permanent like a task force) structure to address ad hoc issues.

A debate with representatives of FIG members

Academic Members

Changes should be suggested AFTER the review.

The possibilities to initiate task forces should be given.

If, like in the proposal, only 4 Commission remain (not a good idea), these could be something like a Technical/Scientific Board. Since this board would have FIG steering activities, the council may be reduced to 3 persons only. This may be a possibility if we remain with 8 Commissions too.

A review of all (task forces, networks and commissions) is recommended. Why do we have these different 'groups', what is/should be their role, are they functioning well? There is somehow an overlap. It is not always clear what is the difference between a task force or a working group in a commission.

With respect to Commission 2, professional education, it has a particular cross-cutting role, across all other commissions, like Commission 1. They could join.

With new themes and the rapid changing environment of the surveyors, new commissions should be considered.

See my suggestions in question 8 & 9

sometimes a TF should grow into a commission, perhaps also a commission could become a TF and finally 'dry up'

Affiliate Members

- I liked the suggestion of a cross-structure of Commissions and Task Forces/Networks; that should be strengthened as it supports a common understanding of FIG activities;
- the YSN is a big asset and has to be continued and supported.

Concerning question 11 it is difficult to have an opinion as this is more of an internal governance issue for FIG. It is important to have a procedure for setting up Task Forces in a suitable way that does not take too long time.

Make the networks into services like the standards and education. For example, Young Surveyors network touches all the commissions.

There should be an endorsed plan for moving forward. This can be a 3/5 year plan. So that the objectives remains clear. The main work load should not fall on only on core groups rather it is necessary to be decentralized within the optimal responsibilities that can be carried out. Also time to time inviting others professional to be part of these commission through a reference group can insure the proper functioning of the structure.

Something in the line of FIG contribution to the protection of the environment and climate change

Corporate Members

Proceed as fast as possible, and don't delay unnecessarily

Correspondents

ACCO should be the coordinating unit for the commission work

I think the Commissions should remain as they are the reason d'etre of FIG but the Task Force needs to look closely at the overall interrelationship of all the constituent parts of FIG. Specifically there needs to be

Improved communication to members - website is antiquated

Improved support including financial for Commissions from FIG office

ACCO is disbanded and a permanent standing committee of Commission chairs be established to advise Council. ACCO appears ineffective

Setting of clear and achievable overall objectives by Council

Setting up of streams that work across Commissions for a finite period

Review of standards and practices in the international community to ensure the Commissions remain relevant

Redirect or create new commissions to meet professional demand

Improved member representation within Commission structure

The Task Force was also asked to review the process for nominating, assessing and selecting candidates for Commission Chairs. The Task Force has developed and proposed several strategies with respect to this.

Thinking of the future and challenges, does the current process for nominating, assessing and selecting candidates for Commission Chairs need to change?

	Yes	No
All	47,17% (25)	52,83% (28)
Member Association	24,53% (13)	22,64% (12)
Academic Member	9,43% (5)	18,87% (10)
Affiliate Member	7,55% (4)	7,55% (4)
Corporate Member	1,89% (1)	3,77% (2)
Correspondent	3,77% (2)	0% (0)

Summary

Definitely not a clear majority for either.

Overall, do you agree with the Task Force proposals (presented at FIG WW 2016) with respect to nominating, assessing and selecting candidates for Commission Chairs?

	Yes	No
All	68,52% (37)	31,48 (17)
Member Association	29,63 (16)	16,67% (9)
Academic Member	20,37% (11)	9,26% (5)
Affiliate Member	11,11% (6)	3,70% (2)
Corporate Member	3,7% (2)	1,85% (1)
Correspondent	3,7% (2)	0% (0)

Summary

IF a change is necessary, the suggested changes are OK.

If you do have specific ideas for a change or modification of the proposal please indicate below

Below are all the text responses. No editing done;

Member Associations

more quality criterias for the selection of candidates, less diplomacy

Commissions could be reduced by up to 8 with detailed specifications of the respective competences. Chairs of commissions should be directly elected by the GA and freely proposed by each member association.

the changes to commissions could have a very damaging effect on FIG and its global role, this proposal is a step backwards.

That would be a good problem to have but we do think it will be rare to have any kind of election process when so few members come forward. The 4 year cycle really needs to be looked at closer.

I still think that the support of the Member Association must be ascertained

There is a need to establish an Election Committee that can actively ensure that qualified candidates are available for election at the GA.

Academic Members

The problem at present is that the Council can approve a candidate as chair who is either unknown to or does not enjoy the support of the commission (s)he is seeking to be appointed to. My impression is that it is sometimes quite difficult to find chairs for some of the smaller commissions as member associations may be unable or unwilling to provide candidates with the necessary support.

I think that choosing the right chairs is the current problem of FIG. The ideas of the Working Group went in the right direction. We need more space in the GA to discuss the appropriateness of candidates. It should be possible to close Commission temporarily if no appropriate candidate could be selected. If this happens more often for one commission obviously, the interest of the surveying community is not large, so the commission can be shut down.

Have you considered reviewing what is happening in other professional organizations? Like ISPRS or ICA?

I cannot assess the proposal but because of the form had to put some mark to the question 14. Because of that it's negative but does not mean anything.

I wasn't at New Zealand and have not read the proposal of the task force on structure of FIG SO I can't answer QUESTIONS 14 & 15

No change needed

Affiliate Members

This questionnaire mainly targets change. But change for the sake of change won't help. It is as important to identify elements that are there and need to be retained.

14. The proposals significantly reduce the number of commissions but also significantly increases the bureaucracy of the organization. This is not needed. Also need to address the cronyism aspect of the working group chairs and also address whether working group chairs are legitimate "members" of a member organization.

Rather than just merging the existing commissions, new commissions satisfying the needs of technological advancements can be integrated into the structure of FIG. For example commission 8 can be Space borne Measurement

Any volunteer to assume a position shall ensure support to comply with the expectations and achievement of tasks assigned.

Correspondents

Reconsider having real estate management and valuation as another commission. (From proposed 4 to 5 commissions)

I think succession planning is crucial. Having the right people running Commissions is the key to their long-term relevance and survival. FIG is the only international body representing surveyors and its Commissions are crucially important to the work it does. However too much is expected of Commission members to achieve goals/work plan objectives with very little support from FIG. More money needs to be spent to keep the Commissions vibrant and relevant!



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A FIRM FOUNDATION

SURVEYORS PLAY A FUNDAMENTAL ROLE IN LAND TENURE AND FIG IS WORKING WITH THE UN'S FOOD AND AGRICULTURE ORGANIZATION TO IMPROVE ITS GOVERNANCE IN COUNTRIES AROUND THE WORLD. PAUL MUNRO-FAURE, LEILA SHAMSAIFAR AND LOUISE FRIIS-HANSEN LOOK AT THE LATEST RESEARCH AND DEVELOPMENTS

The Food and Agriculture Organization (FAO) of the United Nations has worked with the International Federation of Surveyors (FIG) for many years, focusing on how land professionals can help to improve governance of tenure. Both organisations recognise that land and other natural resources provide the basis for everyone's food and shelter, economic production, and social, cultural and religious practices. Rights of access and of tenure are increasingly affected by climate change, natural disasters, population growth, urbanisation and the growing demands for land for agriculture and bio-energy initiatives. Responsible governance of tenure of land and other natural resources can help to reduce undernourishment, hunger and poverty, and create opportunities in support of social and economic development. Weak governance hinders sustainable use of the environment, hinders economic growth, and can condemn people to hunger, poverty and loss of life through violent conflict.

Land governance has become a global development priority and with it the work of land professionals – on 25 September 2015, the UN General Assembly adopted a set of goals to end poverty, protect the planet, and ensure prosperity for all as part of a new Sustainable Development Agenda 2015-2030. The targets to be achieved by the 193 member countries include tenure and thereby provide unprecedented global importance and responsibilities to the work of land professionals.

The inclusion of tenure targets in the new agenda reflects the progressive recognition of the core importance of tenure in the

preceding years. Land professionals have been at the heart of these developments, particularly the framework of the development process of the Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests in the Context of National Food Security (VGGT).

The VGGT were the comprehensive global consensus on what constitute internationally accepted principles and practices for tenure and its administration. Negotiations included the governments of more than 130 countries from all regions of the world, as well civil society organisations, farmers' associations, private sector representatives, professional associations and research institutions. The VGGT were officially endorsed by the Committee on World Food Security, the United Nations' forum for policies concerning world food security, on 11 May 2012.

A renewed impetus

The VGGT have since received an extraordinary amount of global recognition and take-up by all stakeholder groups. In several countries, their endorsement has resulted in a renewed impetus to address tenure issues and pick up discussions where they had ended, sometimes more than 10 years previously. The director-general of the FAO called their endorsement an historic moment, and the G8, G20, Rio+20 and the UN General Assembly have encouraged their implementation. Governments, property professionals, developers, investors, civil society, private sector companies (such as Coca-Cola



The Committee on World Food Security endorsing the VGGT at FAO headquarters in Rome, May 2012. ©FAO/Alessia Pierdomenico



© Javier Molina



© FAO/Giuseppe Bizzarri



Land professionals and universities should not just adopt a narrow technical role in implementing the VGGT, but should also contribute to the wider policy topics being addressed by the VGGT. © FAO



UN-FAO is developing a capacity development suite consisting of technical guides, e-learning and structured learning programmes. FIG encourages its members to use these products. © FAO/Chiara Nicodemi



National platforms are being created in many countries to make VGGT recommendations of change at the country level. FIG is encouraging land professionals of member organisations to participate, influence and add value to their VGGT national platforms. © FAO

Enterprises, PepsiCo, Nestlé and Unilever), professional associations (such as FIG and the International Union of Notaries) and citizens are using them as the reference on how to improve governance of tenure.

Within the context of the FIG Work Plan for 2015-2018, the FIG Council has a vision of a “modern and sustainable surveying profession in support of society, environment and economy by providing innovative, reliable and best practice solutions to our rapidly changing and complex world, acting with integrity and confidence about the usefulness of surveying, and translating these words into action”. At the 2016 FIG Working Week, several important aspects of the VGGT framework were debated in various technical sessions, including a special session under the Council and the Academic Members Forum.

How to support implementation

Improving the governance of tenure requires contributions by all, including ensuring synergies with similar initiatives, as different actors and stakeholder groups can make their own contributions. Surveyors, whether in their everyday work or in their contribution to national, regional and global processes, play a fundamental role.

At the FIG Working Week special session, a roundtable of panellists together with experts, assessed these issues in depth, to inform an agenda for concerted efforts. The result was a set of actions for FIG and its members to improve governance of tenure in the context of the VGGT (see box). These actions will be used on a range of platforms to continue the debate and build new ways to implement good governance in land.

The Academic Members’ Forum concentrated on how to take stock of actions taken in implementing the VGGT and on identifying additional requirements to support the inclusion of the VGGT in curricula and research. The VGGT are already part of the curricula in different university courses from undergraduate to PhD level in domains including geomatics, geo-informatics, land administration, land management, real estate and land governance. A range of teaching methods is used, fitting several learning levels and aims.

One of the main conclusions of the discussion was the centrality of the relationship between national associations and academic members to the successful application of the VGGT. Participants found it particularly important to define professional needs and skillsets in close collaboration with national associations: on the one hand, national associations inform academic and training institutions about the need to include the VGGT in curricula and accredit programmes; on the other, academic institutions play a role in informing national associations about the need to adhere to the VGGT in their work and define the

FIG ACTIONS TO IMPLEMENT THE VGGT

1. FIG members should not just adopt a narrow technical role in implementing the VGGT, but should also contribute to the wider policy topics being addressed by the VGGT.
2. A wide range of professions are actively implementing the VGGT. FIG should engage with them and learn from their experiences in promoting, disseminating and implementing the VGGT.
3. FIG needs to help with the use of the VGGT in the day-to-day operations of members, as there is a clear need. It should therefore:
 - Encourage the promotion and dissemination of the VGGT in a form that land professionals can easily interpret and implement.
 - Raise awareness of the VGGT technical guides that can be used by members at the operational level.
 - Encourage FIG participation in the drafting and reviewing of future VGGT technical guides.
4. National platforms are being created in many countries to implement VGGT recommendations. These are multi-stakeholder platforms and FIG should encourage land professionals to contribute to implementing the VGGT in their countries.
5. UN-FAO is developing a capacity development suite consisting of technical guides, e-learning and structured learning programmes. FIG should ensure links to the VGGT e-learning packages for land professionals are featured on its website.
6. The VGGT have a significant impact on the education and training for land professions and should be reflected in the corresponding curricula. FIG academic forum and commission 2 should therefore continue their work to influence courses of land professional to adopt and embed the VGGT into the corresponding curricula.
7. A response to the VGGT from FIG and land professionals is long overdue. FIG needs to consider a statement about the adoption and implementation of the VGGT by land professionals and release it during the FIG Working Week in Helsinki.

professional needs and skillsets required by professionals for them to operate within the framework of the VGGT.

The forum decided to form a working group. This group is now researching the impact of the VGGT on the surveying profession and the way in which surveying curricula around the world present the VGGT. The group plans to present its results at the next FIG Working Week, which will be held between 29 May 2 June in Helsinki, Finland, this year.

ONE OF THE MAIN OUTCOMES OF THE DISCUSSION WAS THE CENTRALITY OF THE RELATIONSHIP BETWEEN NATIONAL ASSOCIATIONS AND ACADEMIC MEMBERS TO THE SUCCESSFUL APPLICATION OF THE VGGT

Paul Munro-Faure is deputy director and Leila Shamsaifar is land tenure officer at FAO (www.fao.org). Louise Friis-Hansen is director of FIG (www.fig.net). You can download the VGGT from www.fao.org/nr/tenure/voluntary-guidelines/

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Action Statement FAO-FIG - How can land professionals support implementation of the VGGT?

1. FIG Members should not just adopt a narrow technical role in implementing the VGGT, but should also contribute to the wider policy topics being addressed by the VGGT, e.g. large scale land acquisitions.

Actions:

- Member Association engagement with VGGT policy initiatives, where appropriate.

2. A wide range of professions are actively implementing the VGGT, e.g. notaries have been very proactive and have produced several videos for their members. FIG should engage with a wider set of professions and learn from their experiences in promoting, disseminating and implementing the VGGT.

Action:

- FIG commissions & networks engage with professions that have been highly active with their membership in implementing the VGGT.

3. FIG needs to facilitate the use of the VGGT in the day-to-day actions of members at the operational level. There is a clear need to link the VGGT to the operational level of land professionals.

Actions:

- Encourage the promotion and dissemination of the VGGT in a form that can be easily interpreted and implemented from the perspective of land professionals.
- Raise awareness of the series of VGGT Technical Guides that can be used by members at the operational level.
- Encourage FIG participation in the drafting and reviewing of future VGGT Technical Guides.

4. National platforms are being created in many countries to make VGGT recommendations of change at the country level. These are multi-stakeholder platforms and land professionals need to contribute to implementing the VGGT in their countries.

Actions:

- FIG needs to encourage land professionals of member organisations to participate, influence and add value to their VGGT national platforms by promoting the opportunity.

5. UN-FAO is developing a capacity development suite consisting of Technical Guides, e-learning and structured learning programmes. This creates an opportunity for FIG to link and encourage the use of these products for their members.

Action:

- Engage with UN-FAO to ensure the appropriate web links to the VGGT e-learning packages for land professionals are featured on the FIG website.

6. The VGGT have a significant impact on the education and training for land professions and should be reflected in the corresponding curricula.

Actions:

- FIG academic forum and commission 2 should continue their work to influence courses of land professional to adopt and embed the VGGT into the corresponding curricula.

7. A response to the VGGT from FIG and land professionals is long overdue. FIG needs to consider a statement around the adoption and implementation of the VGGT by land professionals.

Actions:

- FIG should release a statement as their response to the VGGT. This should happen at the FIG Working Week in Helsinki 2017.

DVW e.V.
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10. Januar 2017

FIG Statutes – Change request

Dear Madam President, dear Chryssy,

with this letter I refer to a discussion between Karl-Friedrich Thöne and you from last year.

DVW proposes a small but effective change of the present FIG Statutes. Through this measure we are convinced that continuity of service in the FIG Council could be improved significantly and the election of experienced high-level representatives would become more flexible for FIG.

The proposed change (Statutes: 5. Administration, Item 5.5: 2nd sentence) is indicated in red: *The term of office for all elected members of the Council is four years subject to the provisions of section 5.6. No individual may serve for more than two consecutive periods as Vice President on the Council and the term of office of the president is limited to one period of four years. The term of office for the President, Vice Presidents and the ACCO representative starts on 1 January in the year immediately following their election. For the purposes of this section a single term of two years or less shall not be considered as a term of office.*

There is no doubt that this proposal is beneficial for FIG in general. The additional possibility of serving two consecutive periods as Vice President (instead of just one) before becoming President of FIG would strengthen the working performance and the visibility of FIG. This has also been good national practice in the board of DVW.

The present occasion is that we consider the FIG Vice President Prof. Rudolf Staiger as an excellent candidate for the upcoming FIG presidential election in 2018.

I kindly ask to forward our proposal to the FIG Council for further consideration. We would highly appreciate if this item could be discussed and hopefully approved during the FIG General Assembly in Helsinki.

Please do not hesitate to contact me for any further clarification.

Kind regards



Prof. Dr. Hansjörg Kutterer, President

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GUIDELINES FOR MEMBERSHIP SUSPENSION BY DECISION OF COUNCIL

Adopted by Council June 2014 and January 2017

Background:

FIG has in these past years experienced on several occasions where a member (member association, affiliate or academic member):

- had difficulty in remitting its membership dues to FIG;
- could not be contacted; and
- experienced internal financial distress,

due to circumstances beyond the member's or FIG's control such as domestic civil strife, external economic sanctions or sharp sudden domestic economic turmoil, but desirous of remaining a member of FIG.

Suspended status:

When Council is aware that a member has a difficulty in sustaining its membership due to –

- Domestic civil strife and upheavals;
- External economic sanctions; or
- Sudden and sharp domestic economic downturn,

the President may introduce an agenda item into the Council Meeting Agenda to consider suspending the membership of that member (member association, affiliate or academic member) on a year-to-year basis. When Council so decides and the suspension is agreed, no invoice to demand payment of its annual subscription for that basis year is sent to that member.

When a member is so suspended from membership in FIG by decision of Council:

- individuals belonging to that member can continue to participate in FIG's activities;
- the suspended member continues to receive information from FIG as if it remains a member; and
- when attending the General Assembly, in the case of a member association, do not have the right to a vote for the year under suspension.

In addition, FIG Office will continue, through best endeavor, re-establish and maintain contact with the member, monitor the situation and where applicable, recover any arrears due to FIG at first opportunity.

Additional Condition

This provision cannot be applied to a member association who has a nominated individual holding a post (President, Vice President, Commission Chair, Commission Chair-elect, Network Chair, Network Chair-elect, Task Force Chair) in the current term.

This provision must be viewed as a provision necessitated by a "force majeure" situation and must not be exercised by Council unless all the conditions stipulated above are met and Council deem it's in the better interest of the member and FIG. The current provision would be that of expulsion from FIG's membership.

**2017 GENERAL ASSEMBLY
FINANCIAL ISSUES (INCLUDING 2016 ACCOUNTS, 2017-20 BUDGETS AND 2018
AND 2019 SUBSCRIPTIONS)**

1. Introduction

This paper provides the General Assembly with an update on FIG's financial progress in 2016, the Council's amended proposed budgets for 2017-19 and an indicative budget for 2020, and other financial matters.

The General Assembly is asked to:

- Adopt the audited 2016 Accounts at Annex A, noting that the audited accounts are in the form of the template approved at the 2009 General Assembly (and provided again at Annex B)
- Agree to increase IT reserve from €30,000 to €50,000 using part of the total surplus.
- Endorse the budgets for 2017-20, at Annex C to the General Assembly agenda.
- Approve member association subscription levels for 2019, set out in section 5 of this paper.

2. A commentary on FIG income and expenditure for 2016

FIG Finances follow three key measures:

- Key measure 1: there must be a surplus of regular income over regular expenditure each year;
- Key measure 2: there must be an overall surplus over the 4-year Council period;
- Key measure 3: the general reserve must remain within the level of 90-100% of regular expenditure.

2016 was the second year for the current Council. Although 2016 was yet another challenging year with an unstable global economic situation Council and FIG Office continued prudent and with cost containment measures. There was a budgeted deficit of €10,250, however the final result shows a surplus of € 37,473 which will be explained in this paper.

All key measures 1, 2 and 3 were held. There was a surplus of regular income over regular expenditure of €30,270 (Key measure 1) must be positive. A large part of the surplus comes from savings in salaries. As always, expenditure was monitored closely. Key measure 2 is 115% seen over the period 2015, 2016 (actual results) 2017 and 2018 (budgets). Key measure 3 was 122%. General reserve as % of annual total expenditure was 110%.

Income

Income from membership subscriptions was almost €20,000 lower than budget however close to the 2015 result. Membership fees from Member Associations were €6,000 higher than in 2015, and there was also an increase in the membership fee from Affiliate Members of €3,000. The membership fee for Corporate Members showed a decrease of €5,500. Write offs were again in 2016 fairly high, in total €32,000 which was even higher than 2015 (25,600). This means that we have had several expulsions and members who have not paid their membership fee in full.

It was decided to increase the provision for doubtful debt from subscriptions income that was introduced in 2012 with €5,000 due to the fact that some of the members in arrears there were some fairly high arrears. Still a quite high amount is owed to FIG from subscription fees not yet paid.

Financial income was in 2016 higher than expected in spite of the prevailing low interest rate regime, which is expected to persist. Interest earned was in line with last year, but at the end of 2016 a capital gain on investments was noted. Last year currency difference and alteration of course was separated in the accounting from miscellaneous administration costs to visualise the fluctuation, which can be quite high. In 2015 there was a deficit of €3,311 having a negative effect on the final result whereas 2016 had a surplus of €4,126 affecting the final result positively. Today most of the FIG accounts give 0 % interest, and negative interest rates are already announced for 2017.

In total the regular income for 2016 was EUR 12,000 lower than budgeted, however €13,500 higher than 2015.

Arrears

Arrears at the end of 2016 are still remarkably high, in total €110,734.09. The positive aspect, however, is that the amount has decreased significantly compared to the previous years 2015 (€124,139.41) 2014 (€153,819.05) and 2013 (€135,987.65). Arrears solely for 2016 were €62,037 which is a slight increase compared to 2015 (€58,689) however lower than previously. As comparison to this, the arrears for 2014 were €109,147 last year, and 2013 were €74,546.30. Previous arrears have successfully been decreased significantly compared to previous years. The size of the arrears for 2015, 14 and 13 amounts to €48,696. Council again requests all members to pay their membership subscription promptly. The size of the arrears again meant that a significant portion of FIG's reserve holdings is being used to fund FIG cash flow.

Expenditure

Total regular expenditure was €378,393 which is €30,600 below budget, and further to this €6,000 lower than 2015.

In general there have been savings within all areas, due to a careful handling of expenditure, however largest savings has been on office costs. One of the reasons for this has been the downscale of employees in the office. Hanne Elster went on pension in February 2016. Savings would cover the budgeted deficit.

On the other hand Marketing and publications are €2k above budget.

The grants to Commission chairs were paid in line with the levels agreed by the General Assembly. All requests from Task Force and Network chairs for support and from Commission chairs for specific support were carefully reviewed prior to any decision. There were no applications for support for poor Member Associations.

Council and executive management costs were close to budget. Again this year this has been obtained through continuing care and control of travel and meeting costs. Some of the travels

were partially covered by external sources. It is important also to note that, in many instances, travel by Council members were partially covered by Council members' employers, member associations or by the event hosts. FIG is very grateful for this support, which allows Council members to maintain close contact with its membership and partners during the year.

Final result

The result of regular income over regular expenditure (key measure 1) showed a positive result of €30,270 which is €18,500 over budget

The final result 2016 which also includes projects and development costs and income shows a surplus of €37,473 which is €47,723 over budget. Developmental expenditure was lower than expected and further to this there was a not expected income on conferences and other projects. In regard to FIG Working Week FIG office had less costs than expected which meant that a part of the income could be allocated to events in addition to the regular income. On other projects and events that FIG Office has been involved in, there has been a smaller income on services provided.

FIG Office continued the IT developmental work that was commenced in 2013. A large part of the costs were covered in 2015, and council decided to move €20,000 of the IT reserve to the 2015 IT expenditure, where after the reserve was down to €30,000. Since the 2016 finances show a positive result, FIG Council proposes to transfer €20,000 of the surplus back to the IT reserve to it original size of €50,000. There will be on-going IT development, and this reserve gives a flexibility in years where larger investments are needed.

At the end of year, FIG's total reserve stood at € 537,121 and the general reserve (total reserved deducted IT and Events reserves) amounts to € 462,121 which is 122% of regular annual expenditure. With the increase of the IT reserve, **the actual final result 2016 is €17,473.**

3. Budgets 2016-19

Annex C to this paper presents proposed revised budgets for 2017, 2018 and 2019 and a proposed budget for 2020. This is to adhere to the requirement for a 4-years ahead budget (decision at the 2009 General Assembly).

Key considerations in constructing the budget

Council's overriding consideration when preparing the budget was to be as realistic as it has to be, particularly with its forecast since it is a 4-year forward budgeting process. In this regard Council is very mindful of the two, ongoing risks to the budget:

- Council has (as described below) reviewed risks from events, and developed models to address these risks, however still there will be a risk to include a conference income in the regular income
- There is a potential risks around the level of income from subscriptions in the on-going economic situation. The levels of arrears show that it remains a significant area of concern

Budgets

Council seeks to ensure a sustainable, effective and efficient Federation. Budgets have therefore been revised to reflect the current realities. When income is forecasted to decline, this has to be balanced by corresponding efforts to reduce operating and developmental costs.

The key changes to the budgets approved at the 2016 General Assembly are:

- Subscriptions are held close to the 2015 final result in light of resignations and 2016 invoiced figures although membership development is an important focus of the FIG office especially;
- An expected increase in the number and income of Corporate Members is included in the budget as an outcome of the Task Force for Corporate member
- In the light of the development Council suggests an increase in subscription rate from 2019 for Member Associations
- Council has agreed on an increase in subscription fee for Affiliate Members for 2019 and onwards
- Administrative costs have been further reduced wherever possible;
- Council and executive management costs are reviewed in the light of activities anticipated for the year;

As in previous years, every effort has been made to base the budget on information available as well as to forecast income and expenditures realistically. This is particularly important given the overall economic situation.

Council remains cognizance of the three key financial measures when preparing the budget:

- Key measure 1: there must be a surplus of regular income over regular expenditure each year;
- Key measure 2: there must be an overall surplus over the 4-year Council period;
- Key measure 3: the general reserve must remain within the level of 90-100% of regular expenditure.

An increase in membership fees from 2018 will make it possible to meet key measure 3. The General Assembly agreed in 2016 that there should be no increase of membership fees in 2018, but Council has reconsidered, and recommend that an adjustment will be already be implemented in 2018 in stead of 2019.

Staffing

Current staffing of the FIG Office is:

- Director (Louise Friis-Hansen) responsible for general management, developmental/strategic tasks, oversight of administration, finances, events, membership matters (particularly in relation to corporate members), council/commission matters, IT, communication and Foundation secretariat duties
- FIG Events and Development Manager (Claudia Stormoen) (full time)
- Finances and Administration (Maria Bargholz, part time – 20 hours/week) responsible for financial administration as well as general FIG and events administration.
- FIG Support (Wu Qiong, China) internship in the FIG office for 6 months (see below)

Hanne Elster retired on 29 February 2016 after 5 years in FIG. Her position has not been replaced, but Maria Bargholz, Finances and Administration has increased working hours from 12 to 20/week.

In 2015 past Vice President Pengfei Cheng announced that the Chinese Society for Surveying, Mapping and Geoinformation (CSSMG) has offered to assist the office with an intern. CSSMG is a member association of FIG and has been actively supporting and participating in the activities of FIG including the support of past FIG Vice President Cheng Pengfei (2013-2016). CSSMG has a trainee exchange programme. As part of this programme, a Memorandum of Understanding has been signed between CSSMG (on behalf of NASG) and FIG for an Internship/Trainee Programme at FIG Office in Copenhagen. An NASG staff person will be appointed as trainee for the FIG Office in Copenhagen for ½ year. This Memorandum of Understanding is valid for three years. The first trainee, Tian Tian, was in the office from February-August 2016. The second trainee, Wu Qiong is in the FIG office in the period January-July 2017.

Organisation of events

The Council and FIG Office work closely together with a Local Organising Committee to organise the yearly FIG event ensuring that FIG's annual event remains not only the flagship event of FIG but a global forum for FIG's membership, partners and stakeholders. Over the past years, FIG has developed the following operating models for its annual events:

- FIG will handle the overall programme, the technical programme, keynote speakers, international registrations, the website, and international exhibitors; and
- The local organisers will handle the contact with the venue; hotels; the local exhibition; local registrations; social events; technical tours; and social tours.

FIG will be reimbursed a fixed sum for its handling, coordination and organization workload for each event. We believe that the models and arrangements provide a sound basis for future conferences, and provide an appropriate balance between FIG and local input and expertise.

FIG Office spends a considerable amount of time on the organisation and preparations of FIG events. FIG Office and Council have evaluated that it is a rewarding investment and gives a possibility to get closer to the individual persons that are related to FIG members.

IT Development

Throughout 2015 and 16 – continuing in 2017 several major IT projects have been started and some also finalised:

- The new web site was launched in May 2015 based on a modern technology. Continuous improvements are undertaken
- FIG Membership database phase I. A database for all members was established in 2016, incl. Commission officials and national delegates to commissions. Until then FIG has not had an actual database, and information has been stored in several different places.
- Possibility for members for on-line update of membership information. Earlier this was done manually.
- Peer review database and handling system that can handle most processes electronically
- Improvements and integration of abstract and registration databases for handling of FIG Conferences
- Automatisations of many of the processes in connection to FIG conferences that have previously been done manually
- Improvement of online payment system
- Conference App

- FIG Membership database phase II: a database for individuals who have a connection with FIG either through the newsletter, participant at FIG Conferences or in any other way related to FIG. The database will be connected with the registration and abstract database as well as the membership database

In the budget 10,000 has been dedicated to IT development. Since a large part of the IT development activities took place in 2015, the budget was exceeded, which was covered through a decrease of the IT reserve with €20,000 to 30,000. The 2016 result is positive, and therefore Council suggests restoring the original reserve by transferring €20,000 of the surplus to the IT reserve.

4. FIG Reserves

As is shown in Annex C, the FIG general reserve at the end of 2016 was 122% of regular annual expenditure. This is above the 90-100% agreed by the 2009 General Assembly. As a 4-year average the general reserve was 115% (the reserve percentage is calculated using an average of four years' regular annual expenditure, as agreed at the 2012 General Assembly).

Council has retained the €25,000 events reserve, for the reasons set out in detail in the Finance Paper to the 2012 General Assembly. In essence, this recognises the risk of organising events, particularly in the current economic climate. Council suggests that the reserve will be maintained at €25,000.

As mentioned earlier, in 2013 Council introduced a reserve for IT, recognizing that an effective IT Policy and Infrastructure is vital to FIG going forward and €25,000 was reserved in the 2013 accounting. IT can be large investments, and could be difficult to provision from normal yearly budget. In 2014 the reserve was increased with €25,000 to €50,000 since there was a surplus of the accounts and again decreased in 2016 with 20,000 to 30,00 due to larger investments and a deficit of the overall result. Since the final result 2016 shows a surplus Council suggests, according to their intentions last year, to increase the reserve again back to the €50,000 level.

The reserves are held in low risk investments and on bank accounts, in line with the policy agreed by the General Assembly. Any transfer of the reserves requires approval by two persons, one of whom being the Council member responsible for finance and administration.

5. Subscriptions 2019

The 2016 General Assembly approved membership fees as follows:

Year	Per capita fee	Minimum fee	Maximum fee
2018	€4.48 per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay €2.24 member up to a maximum of 5,500 members.	20 members or €50 (whichever is greater)	5,500 members (€24,640)

In the light of the budget and the current development, Council has decided to increase the membership fee for 2019 and onwards. Council is conscious of the economic condition that members are operating under and in particular member's challenges with their national membership and budgets. Council wishes to respect this as well and both Council and FIG Office will continue to be prudent in its financial management. Fees for member associations have not increased since 2012. Council proposes to increase the fee to €4.80 per member (from 4.48) which is a 8% increase.

Council has agreed to increase the membership fees for Affiliate Members to € 790 EUR (from 760) which is a 6% increase.

Council has initiated a Task Force to work on how to attract corporate members and the hope is to increase the fees received by corporate members to limit the deficit or turn it into a positive result.

Year	Per capita fee	Minimum fee	Maximum fee
2019	€4.80 per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay €2.40 member up to a maximum of 5,500 members.	25 members or €50 (whichever is greater)	5,500 members (€26,400)

6. Conclusion

Council continues to monitor and manage its finances prudently and believes that the budget proposed is realistic. Council is aware that it is not optimal to suggest an increase in fee, but that it is now necessary to be able to keep the current activity level and standard. Council will allow appropriate decisions to be made on levels of operational and developmental expenditure, to ensure the continuing sustainability, efficiency and effectiveness of FIG. Council thanks all members who have paid the annual membership fees promptly.

Rudolf Staiger
Vice President

The International Federation of Surveyors - FIG

Kalvebod Brygge 31-33

DK-1780 Copenhagen V

(Registration No. 21 33 60 76)

Financial Statements for 2016

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Statement of the Management and the Council

Today the management have discussed and approved the Financial Statements for 1 January - 31 December 2016.

The Financial Statements have been presented in accordance with the generally accepted accounting principles of associations.

In our opinion the Federation and Foundation's financial statements give a true and fair view of the Federation and Foundation's financial position at 31 December 2016.

We recommend the Financial Statements to be approved at the annual general assembly.

Copenhagen, 8 February 2017

FIG Manager

Louise Friis-Hansen

Council

Chryssy A Potsiou
President

Rudolf Staiger
Vice President

Diane Dumashie
Vice President

Mikael Lilje
Vice President

Orhan Ercan
Vice President

The annual financial report is submitted for approvement at the general assembly on / 2017

Chryssy A Potsiou

Independent Auditor's Report

To the members of The International Federation of Surveyors - FIG

Opinion

We have audited the financial statements of The International Federation of Surveyors and FIG Foundation for the financial year 1 January 2016 to 31 December 2016, which comprise income statement and balance sheet including summary of significant accounting policies. The financial statements are prepared in accordance with generally accepted accounting principles of associations.

In our opinion, the financial statements give a true and fair view of the financial position of the association at 31 December 2016, and of the results of the association operations for the financial year 1 January 2016 to 31 December 2016 in accordance with generally accepted accounting principles of associations.

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing and the additional requirements applicable in Denmark. Our responsibilities under those standards and requirements are further described in the "Auditor's responsibilities for the audit of the financial statements" section of our report. We are independent of the company in accordance with the International Ethics Standards Board for Accountants' Code of Ethics for Professional Accountants (IESBA Code) and the additional requirements applicable in Denmark, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Statement on management and council's review

Management and the council is responsible for management and council's review.

Our opinion on the financial statements does not cover management's review, and we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial statements, our responsibility is to read management's review and, in doing so, consider whether management and council's review is materially inconsistent with the financial statements or our knowledge obtained during the audit, or otherwise appears to be materially misstated.

Moreover, it is our responsibility to consider whether management and council's review provides the information required under the accounting principles of associations.

Based on the work we have performed, we conclude that management and council's review is in accordance with the financial statements and has been prepared in accordance with the requirements of the accounting principles of associations. We did not identify any material misstatement of management and council's review.

Independent Auditor's Report - Continued

Management's and council's responsibilities for the financial statements

Management and the council is responsible for the preparation of financial statements that give a true and fair view in accordance the generally accepted accounting principles of associations, and for such internal control as management determines is necessary to enable the preparation of financial statements and that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management and council is responsible for assessing the association's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting in preparing the financial statements unless management and council either intends to liquidate the association or to cease operations, or has no realistic alternative but to do so.

Auditor's responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with International Standards on Auditing and the additional requirements applicable in Denmark will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit conducted in accordance with International Standards on Auditing and the additional requirements applicable in Denmark, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the company's internal control.

Independent Auditor's Report - Continued

- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting in preparing the financial statements and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and contents of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that gives a true and fair view.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Roskilde, 8 February 2017

Beierholm Statsautoriseret Revisionspartnerselskab

CVR no. 32895468

Carsten Johnsen
State Authorized Public Accountant

Federation Information

Federation

The International Federation of Surveyors - FIG
Kalvebod Brygge 31-33
DK-1780 Copenhagen V

Telephone: +45 38 86 10 81

Internet: www.fig.net

E-mail: fig@fig.net

Registration No. 21 33 60 76

Registered in: Copenhagen

Financial year: 1 January to 31 December

Council

Chryssy A Potsiou

Rudolf Staiger

Diane Dumashie

Mikael Lilje

Orhan Ercan

FIG Manager

Louise Friis-Hansen

Auditor

Beierholm

State Authorized Public Accountant

Ringstedvej 71

DK-4000 Roskilde

Denmark

Accounting policies

This Annual Financial Statements has been prepared in accordance with generally accepted accounting principles of associations.

The accounting policies applied for the Financial Statements are consistent with those applied last year.

Recognition and measurement overview

Income is recognised in the income statement when earned, where as costs are recognised by the amounts attributable to this financial year. Value adjustments of financial assets and liabilities are recognised in the income statements as financial income or financial expenses. Also depreciations are recognised in the income statement.

Assets are recognised in the balance sheet when it is probable as a result of a prior event that future economic benefits will flow to the Federation, and the value of the asset can be measured reliably.

Liabilities are recognised in the balance sheet when it is probable that future economic benefits will flow out of the Federation, and the value of the liability can be measured reliably.

On initial recognition, assets and liabilities are measured at cost. Measurement subsequent to initial recognition is effected as described below for each financial statement item.

Anticipated risks and losses that arise before the time of presentation of the Financial Statements and that confirm or invalidate affairs and conditions existing at the balance sheet date are considered at recognition and measurement.

Income Statement

Income and expenses

Items of income or expenses are stated within the period to which they relate irrespective of the payment date.

Balance Sheet

Deposits

Deposits are measured at nominal value.

Accounting policies

Receivables

Receivables are measured at amortised cost, usually equalling nominal value less provisions for bad debts.

Prepayments comprise costs incurred relation to the subsequent financial year.

Stocks

Stocks are measured at cost price.

Investments funds

Investment funds are measured at quoted market price.

Reserves

Reserves are measured at amortized cost, which corresponds to nominal value. Reserves includes provision to future events and IT investements.

Current liabilities

Current liabilities are measured at amortized cost, which corresponds to nominal value.

Foreign currency translation

On initial recognition, foreign currency transactions are translated applying the exchange rate at the transaction date. Exchange differences that arise between the rate at the transaction date and the one in effect at the payment date or the rate at the balance sheet date are recognised in the income statement as financial income or financial expenses.

Receivables, payables and other monetary items denominated in foreign currencies that have not been settled at exchange rate on the balance sheet date and the transaction date is recognised in the income statement as financial income or financial expenses.

Income Statement for 1 January - 31 December 2016 for The International Federation of Surveyors - FIG

	<u>2016</u>	<u>2015</u>
	<i>EURO</i>	<i>EURO</i>
Regular Income		
Member associations.....	260.794	253.998
Affiliate members.....	33.441	30.351
Corporate members.....	79.450	80.046
Academic members.....	12.237	11.593
Less bad debts.....	(32.072)	(25.611)
Less change in provision for doubtful debts.....	(5.067)	0
	348.783	350.377
Financial income.....	6.277	3.907
Less banking costs.....	(523)	(411)
Currency differences.....	4.126	(3.311)
Events, fees charged for services.....	50.000	44.549
	408.663	395.111
Regular Expenditure		
<i>Administration</i>		
Office costs.....	(134.608)	(152.396)
Outsourced office costs.....	(45.381)	(41.128)
	(179.989)	(193.524)
Marketing and publications.....	(13.880)	(11.775)
Council and executive management.....	(151.524)	(145.998)
<i>Commission support</i>		
Regular grants.....	(30.000)	(30.011)
Regular grants, Young Surveyors Network.....	(3.000)	(3.004)
	(33.000)	(33.015)
	(378.393)	(384.312)
Regular income/Regular Expenditure	30.270	10.799

Income Statement for 1 January - 31 December 2016 for The International Federation of Surveyors - FIG

	2016	2015
	<i>EURO</i>	<i>EURO</i>
Result brought forward	30.270	10.799
Projects, events - funds recived by FIG		
Congress/Working Week.....	11.031	0
Other projects.....	12.994	0
	24.025	0
Development spend		
IT and web development.....	(11.815)	(27.337)
Task Force support.....	(5.007)	(5.695)
Specific grants for Commissions.....	0	(2.248)
	(16.822)	(35.280)
Final Result (Deficit)	37.473	(24.481)
The Final Result is recommended distributed as follows		
Transferred to Event reserve.....	0	0
Transferred to IT reserve.....	20.000	(20.000)
Transferred to Equity.....	17.473	(4.481)
	37.473	(24.481)

Balance Sheet at 31 December 2016 for The International Federation of Surveyors - FIG

	2016	2015
	<i>EURO</i>	<i>EURO</i>
<u>Assets</u>		
Current assets:		
Receivables:		
Receivables from members.....	55.465	86.937
Other receivables.....	14.199	193
Receivable VAT.....	4.049	13.449
Prepaid expenses.....	2.688	3.036
Projects in progress.....	20.693	18.437
Merchandise.....	0	1.424
Investments funds.....	212.540	209.121
Cash at hand and bankaccounts.....	644.005	493.811
Total current assets	953.639	826.408
Total assets	953.639	826.408
<u>Equity and liabilities</u>		
Equity:		
Equity at the beginning of the year.....	444.647	449.128
Retained earnings.....	17.473	-4.481
Total equity	462.120	444.647
Reserves:		
Event reserve.....	25.000	25.000
IT reserve.....	50.000	30.000
Total reserve	75.000	55.000
Liabilities:		
Deferred income.....	16.747	23.896
Account payable, The FIG Foundation.....	235.892	230.549
Other debt.....	163.880	72.316
Total liabilities	416.519	326.761
Total equity, reserves and liabilities	953.639	826.408

Income Statement for 1 January - 31 December 2016 for the FIG Founda

	<u>2016</u>	<u>2015</u>
	<i>EURO</i>	<i>EURO</i>
Donations		
Personal donations.....	97	247
Other donations.....	10.000	10.002
FIG Conferences.....	10.173	9.298
Financial income.....	<u>2.191</u>	<u>1.155</u>
Total Income	22.461	20.702
Expenses		
Grants.....	<u>(19.811)</u>	<u>(15.034)</u>
Total Expenses	(19.811)	(15.034)
Final Result (Deficit)	<u>2.650</u>	<u>5.668</u>

Balance Sheet at 31 December 2016 for The FIG Foundation

	2016	2015
	<i>EURO</i>	<i>EURO</i>
<u>Assets</u>		
Current assets:		
Receivables:		
Account receivable, FIG.....	235.892	230.549
Other receivables.....	1.155	1.153
Cash at hand and bankaccounts.....	3.110	5.803
Total current assets	240.157	237.505
Total assets	240.157	237.505
<u>Equity and liabilities</u>		
Equity:		
Equity at the beginning of the year.....	236.508	230.840
Retained earnings.....	2.650	5.668
Total equity	239.158	236.508
Liabilities:		
Other debt.....	999	997
Total liabilities	999	997
Total equity, reserves and liabilities	240.157	237.505

	2015 Result	2016 Budget €	2016 Result €	Variance €	Notes
REGULAR INCOME					
Subscriptions					
Member associations	253,998	255,000	260,794	5,794	
Affiliate members	30,351	30,000	33,441	3,441	
Corporate members	80,046	85,000	79,450	-5,550	
Academic members	11,593	12,000	12,237	237	
Less bad debts	25,611	15,000	32,072	17,072	
Less change in provision for doubtful debts		-	5,067	5,067	
	<u>350,377</u>	<u>367,000</u>	<u>348,783</u>	<u>-18,217</u>	
Financial income / expenses					
Financial income	3,907	4,000	6,277	2,277	note capital gain on investments
Less banking costs	411	250	523	273	
Currency diff.	-3,311	-	4,126	4,126	
Advertising income		-		-	
Events - fees charged for services	44,549	50,000	50,000	-	
				-	
TOTAL REGULAR INCOME	<u>395,111</u>	<u>420,750</u>	<u>408,663</u>	<u>-12,087</u>	
REGULAR EXPENDITURE					
Administration					
Office costs	<u>152,396</u>	<u>161,500</u>	<u>134,608</u>	-26,892	
Outsourced office costs	<u>41,128</u>	<u>45,500</u>	<u>45,381</u>	-119	
Total administration	<u>193,524</u>	<u>207,000</u>	<u>179,989</u>	-27,011	
Marketing and publications	<u>11,775</u>	<u>12,000</u>	<u>13,880</u>	1,880	
Council and executive management	<u>145,997</u>	<u>157,000</u>	<u>151,524</u>	-5,476	
Commission support					
Regular grants	30,011	30,000	30,000	-	
Regular grants - Young Surveyors Network	3,004	3,000	3,000	-	
	<u>33,015</u>	<u>33,000</u>	<u>33,000</u>	-	
				-	
Total regular expenditure	<u>384,312</u>	<u>409,000</u>	<u>378,393</u>	-30,607	
				-	
Surplus/deficit of regular income over regular expenditure	10,799	11,750	30,270	18,520	
[Key measure 1 - this to be positive]					
PROJECTS AND DEVELOPMENT					
Events - funds received by FIG					
Congress/Working Week		-	11,031	11,031	
Regional Conference	-	-	-	-	
Other events		-	12,994	12,994	
	<u>-</u>	<u>-</u>	<u>24,025</u>	<u>24,025</u>	
Development income					
Development spend					
Task Force support	5,695	5,000	5,007	7	
IT and web - developmental activity	27,337	10,000	11,815	1,815	
Support for poor Member Associations	-	2,000		-2,000	
Specific grants for Commissions	2,248	5,000		-5,000	
	<u>35,280</u>	<u>22,000</u>	<u>16,822</u>	<u>-5,178</u>	
Other projects					
Net result					
RESULT					
Overall surplus/deficit in the year - normal activities	<u>-24,481</u>	<u>-10,250</u>	<u>37,473</u>	<u>47,723</u>	
[Key measure 2 - this to be positive in total over the term of the 4 year budget period]					
Reserves at start of year 499,648					
Events Reserve	25,000				
IT Reserve	30,000				
General Reserve	444,648				
General Reserve as % of annual regular expenditure	116%				
General Reserve as % of annual total expenditure	106%				
Reserves at end of year - estimate 537,121					
Events Reserve			25,000		
IT Reserve			50,000		Increased with 20,000
General Reserve			462,121		
Overall general Reserve as % of annual regular expenditure			142%		
General Reserve as % of annual regular expenditure			122%		
General reserve as % of annual total expenditure			110%		
Notes					

	Final		GA 2016	Final		GA 2014	GA 2015	GA 2016	proposed GA 2017		GA2015	GA 2016	proposed GA 2017		GA 2016	proposed GA 2017	Preliminary
	2015 result	Notes	Budget 2016	2016 result	Notes	Budget 2017	Budget 2017	Budget 2017	Budget 2017	Notes	Budget 2018	Budget 2018	Budget 2018	Budget 2018	Budget 2019	Budget 2019	Budget 2020
IT and web - developmental activi	27,337	f	10,000	11,815	f	10,000	10,000	10,000	10,000	f	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Support for poor Member Associa	-		2,000			2,000	2,000	2,000	2,000		2,000	2,000	2,000	2,000	2,000	2,000	2,000
Specific grants for Commissions	2,248		5,000			5,000	5,000	5,000	5,000		5,000	5,000	5,000	5,000	5,000	5,000	5,000
	<u>35,080</u>		<u>22,000</u>	<u>16,822</u>		<u>22,000</u>	<u>22,000</u>	<u>22,000</u>	<u>22,000</u>		<u>22,000</u>	<u>22,000</u>	<u>22,000</u>	<u>22,000</u>	<u>22,000</u>	<u>22,000</u>	<u>22,000</u>
RESULT																	
Overall surplus/deficit in the year - normal	<u>-24,481</u>		<u>-10,250</u>	<u>37,473</u>		<u>-9,000</u>	<u>-25,250</u>	<u>-9,250</u>	<u>3,250</u>		<u>-10,500</u>	<u>8,250</u>	<u>-8,750</u>		<u>-2,250</u>	<u>6,750</u>	<u>3,750</u>
<i>[Key measure 2 - this to be positive in total over the term of the 4 year budget period]</i>																	
Exceptional items																	
Total reserves at year end	499,648		489,398	537,121		528,121	464,148	480,148	492,648		453,648	488,398	483,898		486,148	490,648	494,398
General reserve	444,648		434,398	462,121		478,121	389,148	425,148	437,648		378,648	433,398	428,898		431,148	435,648	439,398
Events reserve	25,000	m	25,000	25,000		25,000	25,000	25,000	25,000		25,000	25,000	25,000		25,000	25,000	25,000
IT Development Reserve	30,000		30,000	50,000	n	25,000	50,000	30,000	30,000	n	50,000	30,000	30,000		30,000	30,000	30,000
Total reserves as a % of regular (i	124%		119%	133%		130%	112%	120%	160%		109%	122%	120%		117%	119%	116%
General reserve as a % of regular	110%	j	106%	115%	j	117%	94%	106%	108%	j	91%	108%	106%	j	105%	105%	103%
General reserve as a % of regular	116%		106%	122%		113%	90%	103%	107%		85%	101%	97%		102%	103%	103%
<i>[Key measure 3 - this to be within the range 90-100%]</i>																	

Notes:

- a Estimate based on anticipated expulsions; global financial situation requires to keep expulsions higher
 - b Interest rates forecast to remain low
 - c Previously, currency difference was reported under office costs. With the current larger fluctuations it has been decided to report it separately.
 - d Capital gain on investments in 2016
 - e As agreed based on revised model for events organization
 - f Major platform change plus subsequent enhancements to the system
 - g Provision of returns for administrative backstopping for collaborative activities
 - h A provision to support task force and network activities
 - i Savings in office costs
 - j Currently required to be in 90-100% range
- Note that the formula allows for the cycle of expenditure over a 4-year period as the reserve is divided by the annual average expenditure over 4 years (2011-14 for those years; 2013-16 for 2015 and 2016)
- m Reserve introduced in 2012
 - n IT reserved introduced in 2013, increased in 2014, decreased in 2015 increased again in 2016

Summary of the bids for 2021

The following clarification is based on information given by the bid documents. Below is a summarized comparison from given bids. All variables were submitted in the original bid for proposals. This document is a summary of each country's bid in spreadsheet format for easier comparison and is meant to be a fact based document.

ITEM and criteria	ACCRA GHANA Ghana Institution of Surveyors (GhIS) and Licensed Surveyors Association of Ghana (LISAG)	KRAKOW POLAND Association of Polish Surveyors (SGP)
1. Rotation of the conference - Previous and planned conferences:	Africa (2013, 2011, 1999)	Europe (2020, 2017, 2015, 2012, 2008)
	<p>Congresses: 2018: Euroasia (Turkey); 2014: Asia and the Pacific (Malaysia); 2010: Asia and the Pacific (Australia); 2006: Europe (Germany), 2002: North America (USA); 1998: Europe (United Kingdom); 1994: Asia and the Pacific (Australia)</p> <p>Working Weeks: 2020: Europe (The Netherlands); 2019: Asia (Vietnam) 2017: Europe (Finland) 2016: Asia and the Pacific (New Zealand); 2015: Europe (Bulgaria); 2013: Africa (Nigeria); 2012: Europe (Italy); 2011: Africa/Arab countries (Morocco); 2009: Asia/Middle East (Israel); 2008: Europe (Sweden); 2007: Asia (Hong Kong SAR, China); 2005 Africa/Arab countries (Egypt); 2004: Europe (Greece); 2003: Europe (France); 2001: Asia (Republic of Korea); 2000. Europe: Czech Republic.</p>	
2. Country hosting of earlier FIG events and general experience	The last time a FIG conference was held in Ghana was: 5th FIG Regional Conference 2006, 8-11 March 2006, Accra, Ghana. Several other events have been organized by the associations.	The last time a FIG conference was held in Poland was: 52nd FIG Permanent Committee Meeting 1985, 9 - 16 June 1985, Katowice, Poland. Previous conferences were 26th FIG Permanent Committee Meeting 1959, 4 - 7 Sep. 1959, Krakow, Poland and 6th FIG Permanent Committee Meeting 1932, 2 - 3 Sep. 1932, Warsaw, Poland
3. Member association Its activeness, Commitment to FIG and to FIG 2021 Execution ability for local association	GhIS is a long term member association of FIG and is a member in good standing. GIS currently hosts one commission chair (Commission 8). LISAG became member of FIG in 2015 and is also a member in good standing. Local organising committee is established. Associations have delegates in all commissions. Has organised smaller events with FIG engagement	SGP has been member of FIG for many years, and has been an active member of FIG throughout the years. ASP has been active at earlier conferences and hosts two honorary members of FIG. SGP is a member in good standing. Local organising committee is established. SGP has delegates in all commissions Experienced conference organiser also for other FIG events
4. Supporting organisations Local support to the Working Week Governmental support Financial support General support	The bid is submitted by GhIS and LISAG and the associations will jointly organise the Working Week. Support from organisations and Agencies in Ghana as well as the local surveying community. Application for government support: through assistance and Ghanaian government endorsement to use specially selected venues at great discounted rates.	The bid is submitted by SGP and is supported by The Head Office of Geodesy and Cartography which is an office operating under the direct patronage of the Surveyor General of Poland. Other supporting organisations: Polish Federation of Engineering Associations, Polish Society for Photogrammetry and Remote Sensing, Geodetic Chamber of Commerce, Polish Association for Spatial Information, National Union of Employers of Geodesy and Cartographic Companies, Warsaw University of Technology Faculty of Geodesy and Cartography, University of Warmia Mazury in Olsztyn Faculty of Geodesy, Geospatial and Civil Engineering, AGH University of Science and Technology Faculty of Mining Surveying and

ITEM and criteria	ACCRA GHANA Ghana Institution of Surveyors (GHS) and Licensed Surveyors Association of Ghana (LISAG)	KRAKOW POLAND Association of Polish Surveyors (SGP)
		Environmental Engineering, Local journal of geodesy science. The owner is Association of Polish Surveyors, and the City of Krakow.
5. Host city	Host city is Accra which is a very old city, dating back to the 15 th century. Accra has population very close to Four million people. Accra is accessible from several destinations.	Krakow is a cradle of polish culture and history and the most recognisable Polish city abroad. Krakow is a former capital of Poland
6. Venue Price/affordability Location of venue Internet availability Suitability of rooms, size of venue, structure and layout of the venue Catering Value for money Hotels nearby Facilities for exhibition	Accra International Conference Centre (AICC), The venue seems to be able to accommodate the FIG Working Week. Information about total number of meeting rooms is not available. The venue does not have web site. Shuttle buses will be the main means of ground transportation for the participants during the Working Week. Arrangements will be made for government police dispatch riders to accompany the buses in all traffic prone areas.	Krakow ICE Congress. Venue seems suitable and with the desired number of rooms and exhibition space. Problematic space for GA Number of session rooms – not known, but seems sufficient for WW
7. Accessibility Flight connections Several access possibilities Security Visa issues Air fare to destination	The Kotoka International Airport is a modern IATA-rated international airport, with direct international services by British Airways, KLM, Royal Dutch Airlines, Delta, Virgin Airlines and Lufthansa, among others. Visas can be applied for online. The bio data pages of the passports of participants who would require entry visas upon their arrival would have to be scanned and sent to the Local Organising Committee	Distance from VENUE to AIRPORT: 17 km (30 min) Easy to access Krakow by: <ul style="list-style-type: none"> - Plane – Balice Airport with regular connections to over 50 airports around Europe - Train –numerous connections to cities in Poland and Europe - Car – Kraków is central in Poland and region - Bus
8. Safety and security Political stability Airport safety City safety – is it safe to move around? Political stability in country (rating must be 3 or higher)	Currently no special travel warning.	According to the new OECD ranking Poland is currently the safest country in Europe and 2nd safest country worldwide.
9. Proposed dates Must meet FIG requirements Following FIG statutes Practical dates Availability of venue Other conferences at same time	Monday 12th – Sunday 18th April, 2021 Monday 9th – Sunday 15th May, 2021 Monday 16th – Sunday 22nd May, 2021	25.06-1.07.2021 31.05-6.06.2021 02-08.07.2021

ITEM and criteria	ACCRA GHANA Ghana Institution of Surveyors (GHS) and Licensed Surveyors Association of Ghana (LISAG)	KRAKOW POLAND Association of Polish Surveyors (SGP)
10. Technical programme Coverage of all FIG Commissions, Potential partners Originality Special ideas	Local representation in all 10 commissions. solicit the support of organisations and Agencies in Ghana as well as the local surveying community	Local representation in all 10 commissions. New ideas.
11. Technical tours Coverage of all FIG Commissions Originality Ideas proposed	Technical visits with elaborate itinerary to spectacular sites in Ghana such as: Volta Dam, Kakum National Park, Kintampo Falls and Nzulezu stilt village.	Various options of interest: Wieliczka Salt Minie, Swinna Poreba Reservoir on the Skawa River, AGH University of Science and Technology and Centre for Geodetic and Cartographic Documentation in Kraków
12. Social programme Attractiveness and variety Proposals for dinners Attractiveness of offered dinners Proposals for tours Is the program following the overall FIG concept	Interesting and relevant sites for both cultural dinner and gala dinner are proposed with local food, music and flavor Several social tours are proposed to unique tourist attraction sites in Ghana which depicts the rich cultural heritage and historical antecedents of the country. <ul style="list-style-type: none"> • The Greenwich Meridian • Akosombo Dam • Cocoa Processing Company • Boti Falls • Aburi Botanical Gardens 	Interesting and relevant sites for both cultural dinner and gala dinner with local touch. Social tours: Sightseeing Tour Of Cracow Wieliczka Salt Mine Auschwitz-Birkenau State Museum Visit Visit In Stained-Glass Atelier Journey Into The Past: Jewish District Wawel Hill Tour Poland’s Winter Capital: Zakopane Raft Run Down The Dunajec River Cruise To Benedictine Abbey In Tyniec
13. Attendance Expectation of international, regional and local attendance Realistic number of international and national participants	1500 paying participants are expected, which might be optimistic. No distinguish between international and national. Expect many from Africa	paying participants – international: 1000-1400 pax paying participants – national: 200 pax Students: 120 pax Accompanying persons: 150 pax Realistic Expect many from the region.
14. Accommodation Hotel costs Value for money Variation in hotel offers	Hotels: 5* 240-350 EUR 4* 120-260 EUR 3* 100-195 EUR 2* 50-170 EUR	Hotel rooms in range form 5* 190 EUR 4* and 5* 150 EUR 4* 95 EUR (several) Hotels – price worth and not expensive.

ITEM and criteria	ACCRA GHANA Ghana Institution of Surveyors (GHS) and Licensed Surveyors Association of Ghana (LISAG)	KRAKOW POLAND Association of Polish Surveyors (SGP)
Closeness to proposed venue Transportation to venue	Others 20-45 EUR Kempinski Hotel has been negotiated for as the official hotel for the 2021 FIG Working Week with discount on lodging for conference participants.	Some hotels in walking distance, the rest in city center
15. Finances Estimate of surplus and financial risks Realistic fees proposed Fees in an acceptable price range Difference between international and national fees Realistic budget Estimated revenue	Draft budget is made according to FIG requirements. Seems somewhat realistic, however not sure if the budget is based on 3 days or 5 days, and with optimistic registration income. Otherwise expenditure realistic. Delegate fee: Early: 550 EUR Normal: 620 EUR Late: 690 EUR Student: 150 EUR Accompanying persons: 200 EUR Gala dinner: 105 EUR Cultural evening: 95 ER	Draft budget is made according to FIG requirements and seems realistic, based on 800, 1000 and 1200 paying participants. Budgeted income and expenditure is realistic and shows a surplus. No knowledge of national support Delegate fee: Delegate: 570 EUR YS: 220 EUR Acc persons: 150 EUR Cultural evening: 90 EUR Gala dinner: 120 EUR
16. Sponsorship Estimate sponsorship and exhibition income Proposed income How realistic is proposed income Local sponsor offerings Sponsor interest to conference	The main foyer of the proposed venue (AICC) will be used for the exhibition. The foyer is spacious enough to accommodate a maximum of 30-50 exhibition booths depending on the preferred size of the exhibitor. The exhibition areas shall be designed to have a media centre or an area for the media. Conservative and realistic income in budget.	Suitable space for exhibition Sponsorship income – somewhat optimistic Exhibitors – local interest is not known
17. Why host Reason for hosting	Would like to bring the WW to Africa. Ghana is active in FIG. Would like to show Ghana to the rest of FIG community. Position surveyors in the country across all sectors.	Would like to share their experience in the construction of a uniform cadastre for the whole country, taking into account the difficult historical background of various parts of the country. Poland, probably has the biggest number of surveyors per capita.
18. Objectives and outcomes Thought through why conference should be held at destination Difference to other destinations Short term outcome Long term outcome	Promote the profile of the surveying profession both nationally and internationally; Create a platform for surveying professionals and experts in the industry to share experiences; and To address different issues of global interests in relation to the Sustainable Development Goals, SDGs.	Poland has solutions that facilitate the work of surveyors and allow an easy access to geospatial information. They have a geoportal that enables to browse and search spatial data sets and spatial data services made available in accordance with the INSPIRE directive. Over the past 15 years, Poland has been working to create a modern Data Base of Topographic Objects. Preparations for the development of the topographic resources in 3D format are already underway.

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		Outcomes: <ul style="list-style-type: none"> - Presentation of the achievements of Polish geodetic and cartographic heritage and achievements of other countries worldwide, - Comparison of the solutions used in different countries in the field of modern technology, science and administration. - Expanding recognition and potential of Polish geodesy and cartography - Expanding international cooperation and finding optimal solutions in the field of modern technology, science and administration.
19. Suggested theme Thought of possible theme that fits to local/regional situation	Possible themes: The_Surveyor's Role In Relation To The Sustainable Development Goals · Surveying & The Sustainable Development Goals – Effects and Achievements In Retrospect · Surveying & The Sustainable Development Goals – Current Challenges and Effective Future Interventions · Assessing The Sustainable Development Goals – The Surveying Paradigm.	„Towards excellence in measurements”
20. Events organized in the past three years How experienced is the host in organising events	Experienced in smaller events	Several – experienced event organisers
21. Major events planned in the proposed city in 2021 Many events might affect the price level	Information not available	Information not available
22. Initiatives for sustainable conference environment Is host city paying attention to environmental issues Is venue paying attention to environmental	Information not available	Aware of sustainability and reduction of waste and paper used. all kinds of waste generated during the conference will be recycled.

ITEM and criteria	ACCRA GHANA Ghana Institution of Surveyors (GHS) and Licensed Surveyors Association of Ghana (LISAG)	KRAKOW POLAND Association of Polish Surveyors (SGP)
issues Is host paying attention to environmental issues		
23. New initiatives or activities Originality – but within the overall FIG concept		The organizers propose some new initiatives and activities which include: <ul style="list-style-type: none"> - Post-conference seminars to popularize the effects of a conference in the local environment – associated surveyors and non-members of societies – promotion of FIG activities. - Promotion of FIG Working Week effects among students - sharing experience related to the work of surveyors presented during the conference. - Post-conference publications in journals at regional and national level with regard to the translation of selected works that are to popularize the solutions worked out during the FIG Working Week. - he organizers propose not only to reward the best of the publications, but also to help young scientists in appreciation of their work by awarding the young scientists.
24. What legacy to leave locally from the Working week With host Hosting city For the surveying community	Amongst other benefits, the Working Week Ghana 2021 would stimulate stakeholder discussions on surveying career, its role and impact on national development as well as boost the visibility of the host LISAG and West Africa as a whole. To ensure the surveying profession and brand would be consolidated and positioned strategically across the globe, thus enhancing its socio–economic landscape.	The aforementioned initiatives are designed to leave a legacy that will remain in the country and region of the organizers of the FIG Working Week. The organizers particularly indicate the effects that will definitely affect the local sector and these are: KNOWLEDGE: <ul style="list-style-type: none"> - The exchange of knowledge between participants, among which quite a large number will be participants from Poland and Central and Eastern Europe. - Post-conference publications in journals at regional and national level with regard to the translation of selected works - Post-conference seminars to popularize the effects of a conference in the local environment – associated surveyors and non-members of societies – promotion of FIG activities. EXPERIENCE: <ul style="list-style-type: none"> - Awards for young scientists and students for the best speech and poster allowing to gain experience on the international level for early-stage researchers - Promotion of FIG Working Week effects among students - COMMUNITY: <ul style="list-style-type: none"> - Active participation of pupils, students, academia, representatives of geodetic companies will enable broadening

ITEM and criteria	ACCRA GHANA Ghana Institution of Surveyors (GhIS) and Licensed Surveyors Association of Ghana (LISAG)	KRAKOW POLAND Association of Polish Surveyors (SGP)
		and strengthening of the community related to surveying - Drawing the attention of local authorities to the role and work of the surveyor, - Brand building of the region and culture of Malopolska - the southern region of Poland
VALUATION		
Issues supporting destination – subjective rating for Council	<ul style="list-style-type: none"> - Possible support to venue costs - Africa countries are active and faithful participants to FIG conferences 	<ul style="list-style-type: none"> - The FIG Conference has not been held in Poland for many years - Strong organising team - Attractive city – area interesting for surveyors - Strong surveying background - Affordable accommodation
Issues against destination - rating	<ul style="list-style-type: none"> - Ghana located in an unstable area - Risk of lower international attendance which will have an affect on the budget - Hotels fairly expensive 	<ul style="list-style-type: none"> - Room for GA not suitable -