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**Sent:** Saturday, October 19, 2019 6:18 PM

**To:** [jimsmith1780@gmail.com](mailto:jimsmith1780@gmail.com)

**Subject:** FW: FIG attendance Jim Smith

Hello Jim ,Draft for your approval before sending it to

Dear Louise,

Can I propose to the General Assembly in Amsterdam 2020 the nomination as an honorary member: Jim Smith from Petersfield UK on behalf of the IIHS&M,

Jim has attended the FIG meetings since 1968 which is a full 50 years devoted to our profession.

He started his career in Nigeria as a Provincial Surveyor and also lecturer at the School of Surveying in Oyo teaching the local candidate surveyors and working for a government office in surveying.

Later he was Principal Lecturer in Surveying in the Civil Engineering Department of Portsmouth Polytechnic (now Portsmouth University) for 21 years and a great part of the English and Colonial surveyors have benefitted from his experience.

He has for over 50 years socialized with surveyors from all over the world and his wife Ann has attended ladies programs for many dozens of years. I have known Jim since 1975 when I attended my first meetings of FIG, and he was working on standards for measuring since quite a while.

He was not only Editor of the well known survey journal *Survey Review* for ten years but was also the author of many text books, which have guided more than two generations of Land Surveyors. I remember from his 20+ books (see addendum here under) and learned articles before we together translated and edited the conversion of the *Struve Report from 1855-1857* into English, from early French in 2008.

Since then he has prepared *Notes on the history of determining the size and shape of the earth using meridian arcs*, in 5 volumes of some 2100 pages (not yet published) where I also gave a hand. He has also prepared the *Meridian arcs through East and South Africa with emphasis on the arc of the 30<sup>th</sup> Meridian* and *Connection between the Struve Geodetic Arc and the Arc of the 30<sup>th</sup> Meridian*. Both not yet published.

Together we created The International Institute for History of Surveying & Measurement, which was called this way during the FIG congress in Melbourne in 1994, when we had functioned already during 10 years under Commission 1 or O (zero) He has served as an officer of the Institute since 1985.

Since 1984 we together have organized most of the symposia that have taken place the day before the FIG conferences and or FIG working weeks. Together we prepared the inscription of the Struve Meridian Arc from Northern Norway to the Black Sea covering 10 countries, with the help of our local colleagues. We started this after a paper read in Commission one and I had the Honor to propose the inscription on the UNESCO World Heritage in 1994 to the FIG general assembly in Melbourne and we achieved the WHL inscription during the UNESCO general meeting in Durban RSA in 2005. Jim has been the silent force to achieve this recognition for our profession worldwide: The first multi-national achievement covering 10 countries and was the first scientific monument inscribed on the World Heritage List.

At present we continue working on the project from Pole to Pole covering the Struve Meridian Arc, the 30<sup>th</sup> Meridian and the crossing over the Mediterranean sea from Hammerfest to Buffelsfontein covering 135° of latitude.

Jim has been for decades the working hand for friendship between land-surveyors and the silent help and encouragement for young surveyors to publish and share their experiences.

## Books and booklets

1	P	1963	<i>West Nigeria Survey Tables</i> . Published by Survey Division, Ministry of Lands & Housing, Ibadan. 23 pages. Main compiler J Smith. Assistance from W B Till. Although only a slim volume all the tables were computed by hand mechanical calculator.
2	P	1967	<i>Proceedings of EDM Symposium</i> , Oxford 1965, Published by Hilger Watts. 450 pages. Acted as technical editor while employed by the Ministry of Defence
3	P	1970	<i>Book of desk calculator survey programs for Hewlett Packard 9100 machine</i> . Published by Hewlett-Packard. 202 pages. 27 programs This was one of the first desk calculators and such programming was breaking new ground. Theory and programming by J Smith
4	P	1970	Initiated a series of books, <i>Modern Aspects of Land Survey</i> published by Crosby Lockwood. Personally wrote two volumes <i>Optical Distance Measurement</i> 1970. 124 pages and <i>Desk Calculators</i> . 1973. 143 pages. -This was one of the first books to be written about such calculators. Other volumes in the series where I acted as series editor were: <i>Modern Theodolites and Levels</i> . M Cooper 1971. 124 pages <i>Electro Magnetic Distance Measurement</i> . C Burnside 1971. 117 pages. 2nd Edition 1982 <i>Fundamentals of Survey Measurement and Analysis</i> . M Cooper 2nd Edition 1982. 258 pages <i>Hydrography for the Surveyor and Engineer</i> . A Ingham 1974. 139 pages <i>Mapping from Aerial Photographs</i> . C Burnside. 1979 304 pages <i>Sphere, Spheroid and Projections for Surveyors</i> . J Jackson. 1980. 138 pages
5	P	1971	Chapter <i>Modern Developments In Land Survey</i> in Construction Industry Handbook, Medical & Technical Press Volume was 452 pages. Chapter was p 167- 173. 2nd Edition 1973
6	P	1971	<i>Book of Desk Calculator survey programs for Hewlett-Packard 9810 machine</i> . Published by Hewlett-Packard. 173 pages. 22 programs. Theory and programming by J Smith
7	P	1973	<i>Booklet of sequences for first Hewlett-Packard pocket calculator</i> . Published by Hewlett-Packard 60 pages. Theory and programming by J Smith. This was the first book of its kind.
8	P	1974	<i>Book of Soil Mechanics programs for Hewlett-Packard 9810 desk calculator</i> . Published by Hewlett-Packard 143 pages. Theory by L Pimenta, programming by J Smith
9	P	1975	<i>Book of survey programs for Hewlett-Packard BP 65</i> . Published by Hewlett-Packard 106 pages. Theory and programming by J Smith This was the first machine of pocket size to be programmable on to a magnetic card
10	P	1976	Chapter <i>Land Surveying</i> in Use of Engineering Literature Ed. K Mildren. Published Butterworth. 621 pages. Chapter was pp 572-587
11	p	1979	<i>The AGA Geodimeter. 1947-1978</i> . Published by AGA of Sweden 36 pages tracing history of first EDM instruments
12	P	1983	<i>The AGA Geodimeter. 1947-1983</i> . Complete re-write and update of pages tracing history of first EDM instruments 1979 edn. 60 pages
13	P	1987	<i>From Plane to Spheroid</i> . A 220 page book tracing the history of measurement of the size and shape of the earth 3000 BC to 1750. Written to commemorate 250th anniversary of the survey expeditions to Peru and Lapland that proved the earth was an oblate spheroid. Published by Landmark Enterprises, California
14	P	1988	<i>Basic Geodesy, An introduction to the history and concepts of modern geodesy without mathematics</i> . 151 pages. Published by Landmark Enterprises, California. ISBN 0-910845-33-6
15	P	1995	<i>R S Webb. (1892-1976) From Shropshire to Paarl via Geodesy and Lesotho Biography</i> . 120 pages. 1995 Published by South African Council for Professional and Technical Surveyors. Johannesburg. ISBN 0-620-18980-0
16	P	1996	<i>Brief History of Civil Engineering Surveying</i> . Joint with R C Cox. Booklet. Published by ICES. 24 pages. ISBN 1900 77600 6
17	P	1997	<i>Introduction to Geodesy. The History and Concepts of Modern Geodesy</i> . Wiley. 224

			pages. New York. ISBN 0-471-16660-X
18	P	1997	ICE <i>design and practice guides. The Management of Setting Out in Construction.</i> Editor. Published by ICE. 83 pages ISBN 0 7277 2614 5
19	P	1999	<i>Everest. The Man and the Mountain.</i> 306 pages. Whittles Publishing, Scotland. ISBN 1-870325-72-9
20	P	2002	Report of 127 pages. The Struve Geodetic Arc Interim Report to support search for funding.
21	P	2002	A special eight-inch reflecting theodolite. Co-author with Richard Porter. 93 pages + 20 pages of illustrations
22	P	2008	Translation of Struve volumes from French to English. c1200 pages.
23	P	2009	The Tellurometer from Wadley to the MRA7. Joint with Alan Wright and Brian Sturman..
24		2018	<i>Notes on the History of determining the size and shape of the Earth using meridian arcs.</i> Edited version of R S Webb manuscript notes. 5 Volumes. 2200+ pages. Began in 1982, completed 2018. Based on the Webb Collection of material held by the South African "Trig.Survey Library".
25		2018	Meridian Arcs in Africa. 500+ pages
26		2018	Connection between Struve Geodetic Arc and the Arc of the 30 <sup>th</sup> Meridian. 163pages.