



**International Association
of Geodesy**

Newsletter

June 2017

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The *IAG Newsletter* is under the editorial responsibility of the *Communication and Outreach Branch* (COB) of the IAG.

It is an open forum and contributors are welcome to send material (preferably in electronic form) to the IAG COB (newsletter@iag-aig.org). These contributions should complement information sent by IAG officials or by IAG symposia organizers (reports and announcements). The *IAG Newsletter* is published monthly. It is available in different formats from the IAG new internet site: <http://www.iag-aig.org>

Each *IAG Newsletter* includes several of the following topics:

- I. news from the Bureau Members
- II. general information
- III. reports of IAG symposia
- IV. reports by commissions, special commissions or study groups
- V. symposia announcements
- VI. book reviews
- VII. fast bibliography

General Announcements

Summary of the Fourth Meeting of the IAG EC 2015-2019

Place: Vienna, Austria, Vienna University of Technology, Gusshausstr. 27-29, 3rd floor

Time: Friday, April 28, 2017, 09:00 – 18:00

Attendees (voting): H. Schuh (IAG President), Z. Altamimi (IAG Vice President), H. Drewes (Secretary General), J. Boehm (Vice President of Commission 1; on behalf of the President of Commission 1 during agenda item 2), R. Pail (President of Commission 2), M. Hashimoto (President of Commission 3), M. Santos (President of Commission 4), P. Novák (President of ICC on Theory), J. Adam (President of COB), A. Nothnagel (Representative of the Services), L. Combrinck (Member at Large)

Attendees (non-voting): G. Beutler (IAG Past President, 2003-2007), M. Sideris (IAG Past President, 2007-2011), F. Kuglitsch (Assistant Secretary General, minute taker)

Guest: J. Kusche (Editor in Chief, Journal of Geodesy)

Regrets: C. Rizos (IAG Immediate Past President), G. Blewitt (President of Commission 1), H. Kutterer (Chair of GGOS), R. Barzaghi, R. Neilan (Representatives of the Services), M.C. Pacino (Member at Large)

Summary of Agenda Items:

1. Welcome and adoption of agenda

The 4th IAG EC Meeting in the term 2015-2019 took place on 28 April 2017, at the Vienna University of Technology, Department of Geodesy and Geoinformation, in Vienna, Austria, during the last day of the EGU General Assembly 2017. The agenda was distributed previously by email and was unanimously adopted. *H. Schuh*, the President of the IAG, welcomed the members of the IAG Executive Committee (10 out of 16 voting members, 3 non-voting members and 1 guest), introduced *M. Sideris*, IAG Past President and current IUGG President, and mentioned that also *G. Beutler*, IAG Past President and moderator of the IAG Retreat 2016, is expected to join this EC Meeting later (agenda item 12). The EC Members approved the minutes of the third EC Meeting in Potsdam, Germany, 25 April 2016.

2. Reports of the Commissions

On behalf of *G. Blewitt*, *J. Boehm* gave the presentation about **Commission 1**. He reported about the work of the four Sub-commissions. He further mentioned that the next meeting on Reference Frames for Applications in Geosciences (REFAG) will take place during the COSPAR Assembly in July 2018, in Pasadena, CA, USA. Referring to the wish of dissolving WG 1.2.1, Offset Detection in Geodetic Coordinate Time Series (chaired by *S. Williams*), *H. Drewes* mentioned that, according to IAG Bylaw 12, Study and Working Groups can be terminated by the Executive Committee. If IAG does not receive a Working Group report for the first two years, the Working Group should be dissolved in Kobe, Japan. A new Working Group can be established at any time.

R. Pail gave the presentation about **Commission 2**. He reported about the work of the six Sub-commissions. He further reported about GGHS-2016, a joint meeting with IGFS, which was organized from 19 to 23 September 2016, in Thessaloniki, Greece. He presented a proposal for two new Working Groups: (1) JWG 2.2.2: The 1 cm geoid experiment; joint with ISG, IGFS; chaired by *Y.M. Wang*, and (2) JWG 2.2: Validation of combined gravity model EGM2020; joint with IGFS; chaired by *S. Bettadpur*. The EC approved unanimously to install these JWGs.

M. Hashimoto gave the presentation about **Commission 3**. He reported about the work of the five Sub-commissions. *H. Schuh* noted that he was contacted concerning the establishment of an Inter-Association Working Group on Volcano Geodesy. *M. Hashimoto* noted that Sub-commission 3.2 could be interested to develop this. *H. Schuh* offered to ask *P. Fernandez* for a 1-page proposal on this initiative. *H. Drewes* suggested installing an Inter-Association Working Group on earthquakes with IASPEI in Kobe. *H. Schuh* concluded that the one or two new Inter-Association Working Groups should be established in Kobe.

M. Santos gave the presentation about **Commission 4**. He reported about the Commission 4 Symposium which was organized in Wroclaw, Poland, in September 2016, the preparations for IAG-IASPEI 2017 and IUGG 2019,

connections with IGS and others. He further presented a proposal for a new Study Group, SG 4.4.2: Modernized GNSS for Crustal Motions; chaired by *J. Geng*. *H. Schuh* highlighted the importance of clarifying the responsibilities of Commission 4 and IGS to avoid too much overlap. He further noted that a new GGOS Focus Area on Geodetic Space Weather Research was established. *H. Drewes* mentioned that the membership of the proposed new Study Group has to be better balanced including the involvement of more people from Europe, Latin America and Asia. *H. Schuh* suggested *M. Santos* clarifying together with P. Novák whether the new Study Group should be part of Commission 4 or part of ICCT. A final decision should be made in Kobe.

3. Report of the Inter-Commission Committee on Theory

P. Novák reported about the current status of all 13 study groups within ICCT, the ICCT website, the proceedings of the Hotine-Marussi 2013 Symposium and the outlook for ICCT activities from 2017 to 2019. He criticized that the proceedings of the Hotine-Marussi 2013 Symposium were only published in June 2016. *M. Sideris* noted that there are many activities going on within IUGG dealing with space weather issues. Establishing links to e.g., IAGA should be considered. *H. Drewes* supported the idea of having more Joint Study and Working Groups with other Associations, e.g., IAPSO for detecting sea level changes.

4. Report of the Communication and Outreach Branch

J. Adam reported about current COB activities including the IAG website, the IAG newsletter, GIM International, Geodesists' Handbook, Social Media and others. He underlined the need to get regularly news/input for the IAG website, newsletter and social media.

5. Status of GGOS Chair appointment

M. Sideris reported that an IUGG Review Panel concluded restarting the election process from the very beginning with setting up a new Nominating Committee and by following a strict time line. *H. Schuh* mentioned that the IAG Bylaws should be revised as suggested by the Review Panel, and that the IUGG electronic voting system should be used for election. He suggested (i) the IAG Bureau becoming the Nominating Committee, (ii) defining a deadline for nominations, (iii) the call for nominations being open for IAG EC and GGOS CB members, (iv) the Nominating Committee selecting up to four candidates and getting an absolute majority for the GGOS Chair, (v) the GGOS CB discussing the top candidates. GGOS CB cannot add new candidates but can propose a justified removal of some candidates. (vi) placing the remaining candidates in a ballot for electronic voting, (vii) asking the IAG EC members to vote the GGOS Chair, and (viii) the IAG President deciding by flipping a coin in case of a tie. The EC unanimously approved the suggested procedure.

6. Report of GGOS

H. Schuh, on behalf of *H. Kutterer*, presented the report of GGOS. He reported about recent developments in GGOS, the GGOS Days 2016 in Cambridge, MA, USA, and the Overarching Strategic Focus Areas of GGOS. *M. Sideris* noted that GGOS is currently not recognized by GEO, however GGOS has one vote in the GEO plenary. He suggested GGOS becoming a programme partner of GEO and having a member in the GEO Programme Board.

H. Schuh and *H. Drewes* agreed to inform the new GGOS Chair about the GEO issue.

7. Reports of the Services

The EC approved revised ToR of the International Digital Elevation Model Service (IDEMS).

A. Nothnagel reported about the Services BIPM, IERS, IVS, and PSMSL. *H. Drewes* suggested PSMSL collaborating with IGS TIGA (Tide Gauge Benchmark Monitoring WG).

H. Schuh and *R. Pail*, on behalf of *R. Barzaghi*, presented the report of the International Gravity Field Services (IGFS). *J. Adam* noted that IAG is not mentioned in the International Geodynamics and Earth Tide Service (IGETS) ToR. No report was available from *R. Neilan*.

H. Schuh and *R. Pail* reported that COST-G continues the activities of the H2020 project European Gravity Service for Improved Emergency Management (EGSIEM) which aims to determine a combined gravity field model. The EC discussed whether COST-G should become a new service or a product center within IGFS. The majority of the EC (7 out of 10 EC members eligible to vote) supported the idea of a product center within IGFS.

8. Reports from developing countries

L. Combrinck presented recent developments in Geodesy in Africa, Antarctica and the Arctic, such as the installation of new antennas and stations.

No report was available from *M.C. Pacino* who could not attend the meeting.

9. Status of the Journal of Geodesy

J. Kusche reported about the status and role of the Journal of Geodesy as a scientific journal and the new journal data policy. He suggested replacing *C. Brunini*, who retired as an Editorial Board Member, by *M. Hernandez-Pajares*. The EC approved it unanimously.

H. Schuh suggested strengthening the publication of review papers and mentioning them in the Journal of Geodesy guidelines. Further, he noted that the Journal of Geodesy is the journal of the IAG, and therefore should cover all topics targeted by IAG. *J. Kusche* noted for covering all topics (e.g., engineering geodesy) additional members to the Editorial Board might be needed. He further noted that sometimes it happens that reviewers see fundamental mistakes only in the revised version of a paper and have to reject it then.

10. Young Authors Awards 2015 and 2016

H. Drewes presented the candidates for the Young Authors Awards 2015 and 2016 proposed by *J. Kusche*, Editor in Chief, Journal of Geodesy. He then invited the 10 IAG members (eligible to vote) to vote for one 2015 and one 2016 awardee. *R. Barzaghi* submitted his votes by email. In total, 11 people were eligible to vote. After voting, *H. Drewes* stated that *Xingxing Li* and *Olga Didova* were elected the Young Author Awardees 2015 and 2016, respectively. The awards will be handed over at the Kobe Assembly.

11. Status of the IAG Symposia Series

H. Drewes explained the current status of the IAG Symposia Series. He summarized the proposals (i) to change from a book version (hardcopy) to a digital online version, and (ii) to rename the “IAG Symposia Series” to “IAG Topical Series”. A draft new contract from Springer is now available to be signed by *H. Schuh*. *H. Schuh* noted that the publication process will be much faster and probably slightly cheaper; however, the access will not be open access (as too expensive). Single papers can still be published open access if the author pays for it. *J. Freymueller*, Editor in Chief, IAG Symposia Series, could not attend the EC meeting, however, submitted his report on the status of the Series after the meeting.

12. IAG strategy discussion

G. Beutler, moderator of the IAG Retreat 2016, reported that the IAG Structure 2017 should basically remain the same, and proposed minor modifications, undisputed action items and options for major modifications following some visions. *H. Schuh* suggested (i) not going too much into strategy discussion today, but instead, (ii) organizing a longer (e.g., 3 hours) meeting during the IAG-IASPEI Assembly in Kobe on the IAG strategy. The EC agreed that the suggested “Minor Modifications” require some changes to the IAG Bylaws and therefore should be forwarded to the Cassinis Committee. The EC agreed on the following action items:

- installing a Task Force of 4-5 people dealing with the development of an implementation plan of how to attract young scientists (e.g., by a network of young scientists, letting young scientists organize sessions, giving new prizes). The Task Force should present a proposal in Kobe to be realized before the IUGG General Assembly 2019 in Montreal, Canada.
- asking the officers of the IUGG Union Commission on Planetary Sciences (UCPS) who will organize a symposium in Berlin, Germany from 3-5 July 2017, whether it makes sense to develop a IAG Project on Planetary Geodesy (Option #1).
- asking *J. Flury* (Chair of JWG 2.1: Relativistic Geodesy: First steps towards a new geodetic technique) whether his topic should be expanded to an IAG Project (Option #3).

R. Pail suggested adding another Option #4 related to consistency issues of a future GGRF (with some link to Option #2 to be further discussed in Kobe). *H. Schuh* concluded that it would be good having more options for IAG Projects to present in Kobe.

13. IAG/IASPEI Scientific Assembly, Kobe, Japan, 2017-07-30 to 2017-08-04

H. Drewes reported about major deadlines, facilities, schedules of IAG and Joint Symposia. He explained that according to IAG Bylaws, a reduced registration fee shall be offered for individual members. As the IAG/IASPEI Scientific Assembly is a joint assembly, this cannot be offered. The EC agreed giving a one-year free IAG membership instead of a reduced registration fee. The EC also agreed not giving best oral presentation and best poster awards.

14. IAG Reports 2015-2017 (Travaux de l'AIG Vol. 40)

H. Drewes highlighted the deadlines related to the submission and revision of the IAG Reports 2015-2017 and asked the Presidents/Chairs to keep the deadlines.

15. Revision of the IAG Statutes and Bylaws

H. Schuh mentioned that the EC has to decide about the members of the Cassinis Committee, and that there is the tradition that the past IAG President becomes Chair of the Committee. In Potsdam 2016, *C. Rizos* was appointed Chair. The EC appointed five additional candidates.

16. Report from IUGG and ICSU

F. Kuglitsch reported about the status of the IUGG Member Countries, changes in the IUGG Executive Committee and Finance Committee, the new IUGG-Associations joint logos, major scientific events in 2017, new publications, preparations for the IUGG General Assembly 2019, and the proposed ICSU-ISSC merger. *M. Sideris* noted that there will be a meeting of the ICSU GeoUnions in Potsdam, Germany, on 1 September 2017 to further discuss the proposed ICSU-ISSC merger. *H. Schuh* noted that he does not support the merger, as many things related to the future structure have not yet been clarified.

17. Liaisons with other international scientific and professional bodies

H. Drewes presented a letter and the ABLOS Report 2016 of the chair of the joint IAG-IHO Advisory Board on the Law of the Sea.

18. Consultative Committee for Time and Frequency (CCTF) recommendation

H. Drewes presented a recommendation of Claude Boucher w.r.t. the GGOS structure. There was no discussion on this topic.

19. New IAG Representatives

H. Drewes presented the list of newly elected IAG representatives to external bodies. The EC appointed *D. Angermann* the new representative to ISO TC211. The complete list of IAG Representatives may be found at <https://iag.dgfi.tum.de/>. *H. Schuh* proposed appointing a second representative to the UN-GGIM WG GGRF Data Sharing and Geodetic Standards who is also familiar with data sharing issues and ISO issues.

20. IAG sponsored meetings

H. Drewes presented a request to sponsor the JSG3.1 “International Workshop on the inter comparison of space and ground gravity and geometric spatial measurements” in Strasbourg, France, 16-18 October 2017. The EC approved the Workshop as an IAG sponsored meeting.

21. Any other business

H. Drewes mentioned that there was a request of *C. K. Shum* to re-install the International Altimetry Service by some interested people. The EC agreed to ask *C. K. Shum* to elaborate a short proposal and then to release a call for participation. A decision should be made in Kobe.

22. Next IAG EC meeting

The EC decided to hold its next meetings on the occasion of the IAG/IASPEI Assembly on July 30, 2017 and an extraordinary EC strategy meeting on August 3, 2017 in Kobe Japan.

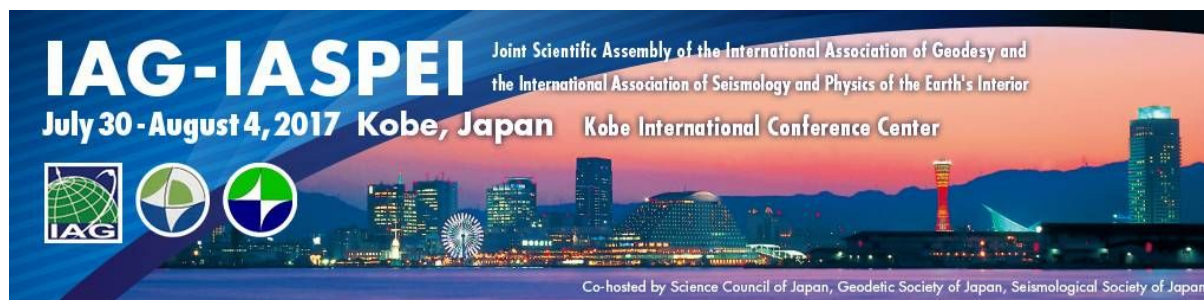
23. Adjourn

H. Schuh thanked the participants for their contributions and closed the session at 18:00.

Respectfully submitted by

F. KUGLITSCH, Assistant Secretary General
H. DREWES, Secretary General

IAG-IASPEI Scientific Assembly, Kobe, Japan, July 30 – August 4, 2017



The International Association of Geodesy (IAG) holds its Scientific Assemblies jointly with the International Association of Seismology and Physics of the Earth (IASPEI) in Kobe, Japan, from July 30 to August 4, 2017. This is a reminder of the closure of pre-registration on July 7, 2017. The general schedule of IAG and Joint IAG-IASPEI meetings is given below. For more details please visit the Homepage <http://www.iag-iaspei-2017.jp>.

IAG-IASPEI Scientific Assembly 2017: IAG Symposia Sessions

- G01 Reference frames
- G02 Static gravity field
- G03 Time variable gravity field
- G04 Earth rotation and geodynamics
- G05 Multi-signal positioning
- G06 Geodetic remote sensing
- G07 Global Geodetic Observing System (GGOS)
- Business meetings, breaks

Time / Room	Monday 31	Tuesday 1	Wednesday 2	Thursday 3	Friday 4	
08:30	502 G02 (1)	G02 (3)	G01 (1)	G01 (5)	G07 (3)	
10:00	504+5 G04 (1)	G04 (3)	G06 (3)	G03 (2)	G05 (1)	
10:00 - 10:30	Coffee Break					
10:30	502 G02 (2)	G02 (4)	G01 (2)	G01 (6)	G07 (4)	
12:00	504+5 G04 (2)	G04 (4)	G06 (4)	G03 (3)	G05 (2)	
12:00 - 13:30	Lunch Break	Commission 3 Commission 4	ICC on Theory IGFS	Commission 1	Lunch Break	
13:30	502	G02 (5)	G01 (3)	G07 (1)	G07 (5)	
15:00	504+5	Joint Opening IAG-IASPEI	G06 (1)	G06 (5)	G03 (4)	G05 (3)
15:00 - 16:00	Poster Session with Coffee Break				Poster/Coffee	
16:00 - 16:30	Coffee Break				Individual Closings	
16:30	502	Individual Openings IAG, IASPEI	G02 (6)	G01 (4)	G07 (2)	
18:00	504+5	G06 (2)	G03 (1)	G03 (5)	Joint Closing	
18:00 - 20:00 (Business mtgs.)	IAG Council GGOS FA 1	Commission 2 IAG Services	IAG Dinner (to register)	IAG EC GGOS/ENOC3	Farewell	

IAG-IASPEI Scientific Assembly 2017: IAG-IASPEI Joint Symposia Sessions

- J01 Monitoring of the cryosphere
- J02 Recent large and destructive earthquakes
- J03 Deformation of the lithosphere
- J04 Geohazard early warning systems
- J05 Crustal dynamics: Multidisciplinary approach
- J06 The spectrum of fault-zone deformation
- J07 Tracking the sea floor in motion
- J08 Imaging & interpreting lithospheric structures
- J09 Geodesy & seismology general contributions

Time / Room	Monday 31	Tuesday 1	Wednesday 2	Thursday 3	Friday 4	
08:30	301 J06 (1)	J06 (3)	J02 (1)	J04 (1)	J04 (5)	
10:00	401/3 J03 (1)	J03 (3)	J01(1)J05(3)	J07(1)J08(2)	J09 (4)	
10:00 - 10:30	Coffee Break					
10:30	301 J06 (2)	J06 (4)	J02 (2)	J04 (2)	J04 (6)	
12:00	401/3 J03 (2)	J01(2)J05(4)	J07(2)J08(3)	J09 (5)		
12:00 - 13:30	Lunch Break / Eventual Business (Splinter) Meetings					
13:30	301	J09 (1)	J02 (3)	J04 (3)	J04 (7)	
15:00	401/3	Joint Opening IAG-IASPEI	J05 (1)	J01(3)J05(5)	J07 (3)	J09 (6)
15:00 - 16:00	Poster Session with Coffee Break				Poster/Coffee	
16:00 - 16:30	Coffee Break				Individual Closings	
16:30	301	Individual Openings IAG, IASPEI	J09 (2)	J02 (4)	J04 (4)	
18:00	401/3	J05 (2)	J08 (1)	J09 (3)	Joint Closing	

HERMANN DREWES, IAG Secretary General

IUGG Statement on Earth's climate and responsibilities of scientists and their governments to promote sustainable development

IUGG Bureau on 12 June 2017 adopted the Statement "The Earth's climate and responsibilities of scientists and their governments to promote sustainable development", which is available from the homepage of IUGG at:

http://www.iugg.org/resolutions/IUGGstatement_ParisAgreement_USA_12Jun2017.pdf

IAG COB

Journal of Geodesy among top 10 Springer journals

The scientific journal of the IAG, Journal of Geodesy has an impact factor of 2.949 for 2016. It is among the top 10 journals on the list (rank 8 of 92) of all Springer journals on Earth Sciences & Geography:

<http://www.springer.com/gp/impact-factor-2016/if-earth-sciences-geography>

IAG COB

Simon A. Holmes died

It is sad news that Dr. Simon Anthony Holmes passed away unexpectedly on May 26, 2017 at the age of 46 (<http://www.donaldsonodenton.com/notices/Simon-Holmes>).

Meeting Announcements

EGSIEM Autumn School for Satellite Gravimetry Applications

11 – 15 September 2017

GFZ Helmholtz Centre, Potsdam, Germany

This autumn school, held in the historic surroundings of the Telegrafenberg site, will educate students and young researchers in state of the art Satellite Gravimetry Applications, and prepare them for the usage of those products being developed within the framework of the EGSIEM project. Presentations from key members of the EGSIEM consortium will be augmented by high profile guests giving presentations on selected topics. Registration Deadline is: **31st July 2017**

Organisation of the autumn school is jointly managed by the EGSIEM project and GFZ

For more information please visit <http://www.egsiem.eu/autumn-school>.

IAG COB

Meetings Calendar

ICC 2017

July 2 – 7, 2017, Washington, DC, USA

URL: <http://icc2017.org/>

IGS Workshop 2017

July 3 – 7, 2017, Paris, France

URL: <http://kb.igs.org/hc/en-us/articles/216574478-IGS-Workshop-2017>

1st IUGG Symposium on Planetary Science (IUGG-PS2017)

July 3 – 5, 2017, Berlin, Germany

URL: <http://www.dlr.de/iugg-ps2017>

IAG/GGOS/IERS Unified Analysis Workshop (UAW)

July 10 – 12, 2017, Paris, France

URL: <http://ggosdays.com/en/conferences/unified-analysis-workshop/>

WCRP/IOC Conference 2017: Regional Sea Level Changes and Coastal Impacts

July 10 – 14, 2017, New York, USA

URL: <http://www.sealevel2017.org>

Technical Seminar on Reference Frame in Practice (RFIP)

July 29 – 30, 2017, Kobe, Japan

URL: <http://ggim.un.org/events/2017/July.html>

IAG and IASPEI Joint Scientific Assembly

July 30 – August 4, 2017, Kobe, Japan

URL: <http://iag.dgfi.tum.de/index.php?id=291>

AOGS 14th Annual Meeting

August 6-11, 2017, Singapore, Singapore

URL: <http://www.asiaoceania.org/aogs2017/>

Fifth International School on "Least Squares Approach to Modelling the Geoid"

August 21-25, 2017, KTH, Stockholm

URL: <https://www.kth.se/en/abe/inst/som/avdelningar/geo/geodesi/handelser-1.78120>

EUGEO 2017

September 4-6, 2017, Brussels, Belgium

URL: <https://eugeo2017.sciencesconf.org/>

ESA/JRC International Summerschool on GNSS 2017

September 4-15, 2017, Longyearbyen, Svalbard-Spitzbergen, Norway

URL: <http://www.esa-jrc-summerschool.org>

Workshop on Glacial Isostatic Adjustment and Elastic Deformation

September 5-7, 2017, Reykjavik, Iceland

URL: <http://www.polar.dtu.dk/english/Workshop-on-Glacial-isostatic-adjustment-and-elastic-deformation-2017>

EGSIEM Autumn School for Satellite Gravimetry Applications

September 11-15, 2017, Potsdam, Germany

URL: <http://www.egsiem.eu/autumn-school>

WMESS 2017

September 11-15, 2017, Prague, Czech Republic

URL: <http://www.mess-earth.org>

COSPAR 2017

September 18-22, 2017, Jeju Island, South Korea

3rd Symposium of the Committee on Space Research (COSPAR): Small Satellites for Space Research

URL: <http://cospar.kasi.re.kr/cospar-symposium-2017/>

IAG Workshop: Satellite Geodesy for Climate Studies

September 19-21, 2017, Bonn, Germany

URL: <http://www.igg.uni-bonn.de/apmg/index.php?id=ws2017>

Journees 2017

September 25-27, 2017, University of Alicante, Spain

URL: <http://web.ua.es/journees2017/>

ION GNSS+ 2017

September 25-29, 2017, Portland, Oregon, USA

URL: <http://www.ion.org/gnss/index.cfm>

Geodätische Woche / INTERGEO 2017

September 26-28, 2017, Berlin, Germany

URL: <http://www.intergeo.de/>

ILRS Technical Workshop 2017

October 4-7, 2017, Riga, Latvia

URL: <http://www.ilrstw2017.lu.lv>

HAPS4ESA

October 9-10, 2017, ESA/ESTEC, Noordwijk, The Netherlands

HAPS4ESA - Towards an ESA Stratospheric High Altitude Pseudo-Satellites (HAPS) Programme for Earth Observation, Telecommunication and Navigation

URL: <http://www.haps4esa.org/>

9th ABLOS Conference

October 10-11, 2017, IHB, Monaco

URL: <http://www.ablosconference.com/>

International Workshop on the inter-comparison of space and ground gravity and geometric spatial measurements

October 16-18, 2017, Strasbourg, France

URL: <http://geodesy.sciencesconf.org>

OSTST 2017

October 23-27, 2017, Miami, FL, USA

URL: <https://sealevel.jpl.nasa.gov/science/ostscienceteam/scienceteammeetings/>

6th International Colloquium on Scientific and Fundamental Aspects of GNSS / Galileo

October 25-27, 2017, Valencia, Spain,

URL: <http://esaconferencebureau.com/2017-events/17a08>

LAPIS 2017 School

October 29 – November 4, 2017, La Plata, Argentina

URL: <http://www.maggia.unlp.edu.ar/lapis2017>

AGU 2017 Fall Meeting

December 11-15, 2017, New Orleans, LA, USA

URL: <https://meetings.agu.org/>

LBS 2018

January 15-17, 2018, Zurich, Switzerland

URL: <http://lbsconference.org>

EGU General Assembly 2018

April 8-13, 2018, Vienna, Austria

URL: <http://www.egu2018.eu/>

AOGS 15th Annual Meeting

June 3-8, 2018, Hawaii, USA

URL: http://www.asiaoceania.org/society/public.asp?view=up_coming

10th IVS General Meeting

June 3-8, 2018, Longyearbyen, Spitsbergen, Norway

URL: <http://www.iers.org/IERS/EN/NewsMeetings/ForthcomingMeetings/forthcoming.html>

42nd COSPAR Scientific Assembly

July 14-22, 2018, Pasadena, CA, USA

URL: <http://cospar2018.org/>

IAU XXXth General Assembly

August 20-31, 2018, Vienna, Austria

URL: <http://astronomy2018.univie.ac.at/>

21st International Workshop on Laser Ranging

October 27-31, 2018, Canberra, Australia

URL: <http://www.iers.org/IERS/EN/NewsMeetings/ForthcomingMeetings/forthcoming.html>

AGU 2018 Fall Meeting

December 10-14, 2018, Washington, D.C., USA

URL: <https://meetings.agu.org/>

EGU General Assembly 2019

April 7-12, 2019, Vienna, Austria

URL: <http://www.egu2019.eu/>

27th IUGG General Assembly

July 8 – 17, 2019, Montreal, Canada

URL: <http://www.iugg.org/assemblies/>

AOGS 16th Annual Meeting

July 28 – August 2, 2019, Singapore, Singapore

URL: http://www.asiaoceania.org/society/public.asp?view=up_coming

Obituary

Klaus Linkwitz (1927-2017)



Dr.-Ing., Dr.sc.techn.h.c., Dr.h.c., Klaus Linkwitz, Professor Emeritus at the University Stuttgart, passed away on June 11, 2017, three weeks before completing the age of 90 years. He was born on July 3, 1927 in Bad Oeynhausen, Germany, where he grew up missing his adolescence as a young soldier in World War II followed by war captivity. In 1948 he started the study of geodesy at the Technical University of Stuttgart, continued in Munich and graduated in 1952. In the following years he practiced geodetic engineering in roadworks, tunnel constructions and survey expeditions in Afghanistan, India, Himalaya, Lebanon, Iran, Saudi Arabia, and Cameroon. During this time of practical experience in international projects, he furthered theoretical studies at the Technical University Munich, where he received his doctor's degree in 1961 with the thesis "Theory of errors and adjustment of networks of distance measurements by the theory of elastic systems". In 1964 he was appointed to the full professorship and director of the Institute for Applications of Geodesy in Civil Engineering at the Technical University of Stuttgart, and in 1965 he became a member of the German Geodetic Commission (DGK), whose chairman he was from 1980 to 1987.

Main research fields of Klaus Linkwitz were lightweight plane load-bearing structures and natural structures sponsored as Special Research Fields by the German Research Foundation (DFG). The most impressive project was the construction of the roof of the world-famous Munich Olympic Centre from 1968 to 1972, which required an extremely precise computer-aided design and static adjustment of the 74800 m² roof surface supported by 12 pylons with 58 steel masts. From 1984 to 1995 Klaus Linkwitz was the chairman of the DFG Special Research Field "High Precision Navigation". In 1993 he received the honorary doctorate of the ETH Zurich, Switzerland, and in 1995 of the Technical University Donetsk, Ukraine.

The involvement of Klaus Linkwitz in the International Association of Geodesy (IAG) may be ascribed to joint projects with developing countries in Algeria, Tanzania, Colombia and Venezuela dealing with engineering geodesy and seismic crustal deformation. From 1991 to 1995 he was the Chairman of the IAG Special Commission 4 "Applications of Geodesy to Engineering" and from 1995 to 1999 he was active in the IAG "Commission on Recent Crustal Movements (CRCM)", emphasising in particular the 3D-Andes-travers across the Bocono Fault in Venezuela.

Geodesists engaged in positioning and geodetic applications in engineering will remember Klaus Linkwitz as an extremely committed engineer and scientist, and a cooperative partner in many international projects. Deep sympathy is offered to his wife and all his family.

HERMANN DREWES