

Commission Report on GASS Commission Business Meetings

Commission H

prepared by Ondrej Santolik (Chairperson 2014–2017)

Commission H business meetings were held three times during the 2014 URSI GASS in Beijing. The first business meeting, chaired by Ondřej Santolík, was held on Monday, August 18, 2014. The second business meeting was organized as a joint meeting of Commissions G and H on Wednesday, August 20, 2014. It was jointly chaired by John Mathews and Ondřej Santolík. The last Commission H business meeting was held on Friday, August 22, 2014. It was again chaired by Ondřej Santolík.

1. Results of Election of Vice Chair

János Lichtenberger (Hungary) was appointed as the new Vice Chair of Commission H after voting from the member committees by mail-in ballots and during the first Commission H business meeting on August 18, 2014. The results were approved by the URSI Council on August 19.

The former Vice Chair, Meers Oppenheim (USA), who was elected in 2011, was unfortunately unable to serve as Chair in 2014-2017 for serious personal reasons. In this exceptional situation, the URSI Board and the Commission H business meeting held on August 18, 2014, approved the continuation of the term of Ondřej Santolík (Czech Republic) as Chair of Commission H until the end of the next General Assembly. He will share these responsibilities with the newly elected Vice Chair and Early Career Representative. He will also seek advice from the Commission H past Chair, Yoshi Omura (Japan), whose continuing help is gratefully acknowledged.

2. Results of Election of Early Career Representative

Wen Li (USA) was appointed as the new Early Career Representative (ECR) of Commission H, after voting from the member committees by mail-in ballots and during the first Commission H business meeting held on August 18, 2014. The results were approved by the URSI Council on August 19.

3. Appointment of Associate Editors for Radio Science Bulletin

The Commission H Vice Chair, János Lichtenberger, and the Commission H ECR, Wen Li, agreed to become Associate Editors of the *Radio Science Bulletin*.

4. Updates/Status of Working Groups

Activities of the working groups related to Commission H were reviewed, and their organization was renewed.

Inter-Commission Working Group EGH on Seismo-Electromagnetics was renewed, with Y. Hobara serving as co-Chair for Commission E, S. Pulnits serving as co-Chair for Commission G, and H. Rothkaehl serving as co-Chair for Commission H.

Inter-Commission Working Group GH on Active Experiments in Space Plasmas was renewed, with T. R. Pedersen serving as co-Chair for Commission G, and M. Kosch serving as co-Chair for Commission H.

The Inter-Union Working Group VERSIM (VLF/ELF Remote Sensing of Ionosphere and Magnetosphere) was renewed as an URSI/IAGA Joint Working Group, with the involvement of URSI Commissions E, G, and H, and with URSI co-Chair M. Clilverd and IAGA co-Chair J. Bortnik

The Inter-Commission Working Group on Solar Power Satellites was renewed, with K. Hashimoto serving as co-Chair for Commission H.

The Inter-Commission Working Group HJ on Computer Simulations in Space Plasmas was renewed, with Y. Omura and B. Lembege serving as co-Chairs for Commission H, and K. Shibata serving as co-Chair for Commission J.

A new Inter-Commission Working Group EFGHJ on Characterization and Mitigation of Radio Interference was established, with H. Rothkaehl serving as co-Chair for Commission H.

5. Updates to the Terms of Reference of the Commission

The terms of reference of Commission H were reviewed, and no changes were proposed.

6. Meetings Proposed to be Supported in the Coming Triennium

Geospace Revisited, September 15-20, 2014, Rhodes, Greece

7th VERSIM Workshop, Hermanus, South Africa, September 2016.

Further suggestions will be handled by Commission H Chair O. Santolík during the three-year period. However, new URSI rules for the Commission budgets do not leave space for supporting all meetings linked to URSI Commission H activities.

7. Report and Comments on the Scientific Program of the Commission for the current GASS

Ample discussion on the organization of the current GASS was held during the last Commission H business meeting on Friday, August 22, 2014. The scientific program of the Commission was found to be successfully prepared, with nine sessions led by Commission H (6 × H, HGE, 2 × HG), where 128 papers were presented (91 oral presentations and 37 posters). There were five sessions with Commission H participation (EGH, 3 × GH, GHE), where 34 oral talks were presented. The total number of 162 Commission H related papers was nearly the same as the comparable number of 164 Commission H related papers presented during the last 2011 GASS in Istanbul.

The discussion further showed that the online program that was technically managed by the URSI Secretariat was very useful, and should stay online as a record for future reference. The need for a functional Wi-Fi connection at the meeting place was emphasized in this context. The topology of the posters in a “chevron” geometry (∧∧) was found to be an unfortunate solution, to be avoided for future meetings. A shorter delay between the abstract submission and the meeting is required. Preferences for a shorter and more-attractive opening ceremony, as well as for a readable program, and for a reasonable size of the general lecture room, were expressed. However, the GASS was generally considered an overall success.

8. Proposed Sessions for the Next GASS

The following sessions were proposed:

An H session on “Macro/Micro-Scale Kinetic Processes at Natural Boundary Layers in Terrestrial and Planetary Environments,” proposed by B. Lembège, I. Shinohara, and G. Lakhina

An H session on “Remote Sensing and Modeling of the Earth’s Plasmasphere and Plasmopause,” proposed by B. Heilig, A. Jorgensen, and V. Pierrard

An H session on “Wave-Particle Interactions and Their Effects on Planetary Radiation Belts,” proposed by R. B. Horne, C. A. Kletzing, and D. Shklyar

An H session on “Drivers, Detection, and Ionospheric Impacts of Precipitation from the Radiation Belts,” proposed by C. Rodger and M. Clilverd

An H session on “Laboratory Simulations,” proposed by A. Fredriksen

An HG or GH session on “Active Experiments and Radio Sounding,” proposed by V. Sonwalkar, R. Moore (H), and N. Jackson-Booth (G)

An HGE session on “Atmospheric, Ionospheric, Magnetospheric and High-Energy Effects of Lightning Discharges,” proposed by S. Celestin (H), N. Liu (G), and M. Fullekrug (E)

An EGH session on “Seismo Electromagnetics (Lithosphere-Atmosphere-Ionosphere Coupling),” proposed by Y. Hobara (E), S. Pulinets (G), and H. Rothkaehl (H)

A GH session on “Transient Phenomena,” proposed by J. Mathews

GH session on Plasma instabilities and irregularities, proposed by F. Lind, and R. Pfaff (H)

A JFGH session on “Characterization and Mitigation of Radio Interference,” proposed by H. Rothkaehl, W. Baan, and J. Matthews.

9. Proposed Sessions for the AT-RASC

General topics:

H.1 “Chaos and Turbulence in Plasma”

H.2 “Plasma Instabilities and Wave Propagation”

H.3 “Spacecraft-Plasma Interactions”

H.4 “Solar/Planetary Plasma Interactions”

H.5 “Wave-Wave and Wave-Particle Interactions”

H.6 “Waves in Laboratory Plasmas”

H.7 “Other”

H “Special Session on Space Radio Weather: The Radio Subdomain of Space Weather,” proposed by M. Messerotti and V. Pierrard

HG “Special Session on Highly-Transient Space Plasma Events,” proposed by G. Ganguli, C. Hartzell, and J. Mathews

GH “Special Session on Modeling Geospace Boundaries and the need for Radio Science Observations,” proposed by T. Fuller-Rowell

10. Other Business

A discussion on the implementation of Commission awards for excellent poster papers at the next GASS was initiated.

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