

Commission D: Report on GASS Commission Business Meetings

Prepared by Günter Steinmeyer (Chair Commission D 2014-2017)

1. Results of Election of Vice Chair

There were two candidates for the position of the Vice Chair.

Hong Guo (China) : 14 votes

Apostolos Georgiadis (Spain): 22 votes

As a result of the election, Apostolos Georgiadis was elected Vice Chair.

2. Results of Election of Early Career Representative

There were three candidates for the position of the Early Career Representative.

Ergun Simsek (USA) : 6 votes

Radek Smid (Czech) : 6 votes

Arnaud Vena : 12 votes

As a result of the election, Arnaud Vena was elected Early Career Representative.

3. Appointment of Associate Editor for *Radio Science Bulletin*

Arnaud Vena accepted to act as Associate Editor for *Radio Science Bulletin*.

4. Updates/Status of Working Groups

D.1 RFID Technologies and Privacy of data

Chair : Smail Tedjini (France)

Vice-Chair : Gaetano Marrocco (Italy)

We wish to continue and expect to produce a document/report for the next triennium.

There is no change in the representative of this WG, but we plan to invite new participants from the other commissions and also some external contributors.

5. Updates to Terms of Reference of Commission

New terms proposed for commission D during the Business Meeting at GASS 2014, Beijing

The Commission promotes research and reviews new development in:

- Electronic devices, circuits, systems and applications;
- Photonic devices, circuits, systems and applications;
- Physics, materials, modeling, design, technology and reliability of devices down to nanoscale devices including quantum devices, with particular reference to radioscience applications.

The Commission deals with devices for generation, detection, storage and processing of electromagnetic signals together with their applications from the low frequencies to the optical domain.

La Commission tend à promouvoir les recherches et la revue des nouveaux développements dans :

- dispositifs électroniques, circuits, systèmes et applications;
- dispositifs photoniques, circuits, systèmes et applications;
- physique, matériaux, Modélisation, conception, technologie et fiabilité des dispositifs jusqu'au dispositifs nanométrique y compris les dispositifs quantique présentant un intérêt particulier pour les applications des radiosciences.

La Commission étudie les dispositifs pour la génération, la détection, le stockage et le traitement des signaux électromagnétiques, ainsi que leurs applications des basses fréquences au domaine optique.

6. Meetings proposed to be supported in the coming triennium: NA

7. Report and comments on the scientific program of the Commission for the current GASS

N/A

8. Proposed sessions for the next GASS

Topic	Commission	Contact	Mail
Radio Signal Processing	D, DBC	C. Caloz	christophe.caloz@polymtl.ca
Energy Harvesting	DB, DBC	S.Tedjini	Smail.tedjini@grenoble-inp.fr
Wireless Sensing	D, DB	Ching Eng Jason	pngce@ihpc.a-star.edu.sg
THz	D	J-L Coutaz	Jean-Louis.Coutaz@univ-savoie.fr
Quantum optics information and metrology	D, DA	Hong Guo	hongguo@pku.edu.cn
Frontiers in optical fibers	D	S. Selleri	stefano.selleri@unipr.it
Micro and nano photonic devices	D	F. Kaertner (C.Wong)	franz.kaertner@cfel.de

9. Proposed sessions for the AT-RASC

- D1 Trends in RFID for Identification and Sensing
- D2 Energy Harvesting in Wireless Systems
- D3 RF MEMs and NEMS
- D4 Trends in THz Communications
- D5 60 GHz Electronics
- D6 Multi-Physics Modeling in Radio Frequency Nanoelectronics

- D7 Graphene Nanoelectronics Applications
- D8 Plasmonics
- D9 Fiber lasers and solid state lasers
- D10 Optical sensors and biosensors
- D11 Signal Processing Antennas
- D12 Broadband Ubiquitous Network
- D13 Special sessions

Special Sessions:

- S-D: Photonics in the International Year of Light
- S-AD: Wireless power transmission and energy harvesting

Chair:

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Vice Chair

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