

## Report from International Directors AESS chapters on chapter activities

Maria Sabrina Greco, International Directors Chair

September 2015

### Western-Europe

International Director: Leo P. Ligthart

14 September 2015

Leo P. Ligthart

Director Western-Europe of IEEE-AESS

During the spring meeting 2015 of the BoG IEEE-AESS it was concluded that AESS chapters in Europe are not so visible as wanted within AESS. Especially the smaller and medium small countries seldom show their activities. Therefore it was decided that the international director Western-European of IEEE-AESS should approach the chair holders and ask for their activities in last and coming year. Because the AESS chapter activities in the big countries as Germany, Italy, France, Spain and UK are better known in the BoG, I decided not to approach these chapters.

Mail sent out to 14 European AESS chapter (or section) chair holders:

Switzerland, Sweden, Slovenia, Serbia, Macedonia, Finland, Estonia, Denmark, Ukraine, Romania, Bulgaria, Czech Republic, Poland and Benelux.

Romania, Bulgaria and Poland did no replied. Wrong people to address?

Serbia, Macedonia, Finland, and Czech Republic: there is no AESS section and there are no AESS activities. As main reason is given that there is no critical mass for establishing an AESS chapter.

<b>AESS chapterchairs</b>	<b>Email address</b>	<b>country</b>	<b>remarks</b>
Heinz Wipf	heinz_wipf@bluewin.ch	Switzerland	Reported
Mats Edvinsson	mje@ieee.org	Sweden	Reported
U. Burnik	urban.burnik@ieee.org	Slovenia	Reported
V. Markovic	vera.markovic@elfak.ni.ac.rs	Serbia	No chapter
Lupco Karadinov	l.karadinov@ieee.org	Macedonia	No chapter
Rafel Sliz	rafel.sliz@ee.oulu.fi	Finland	No chapter
Kalle Tammema	kalle.tammema@ieee.org	Estonia	No response
Ramjee Prasad	prasad@es.aau.dk	Denmark	Reported
Felix Yanovsky	yanovski@i.com.ua	Ukraine	Reported
Mircea Eremia	eremia1@yahoo.com	Romania	No response
Rositza Goleva	rig@tu-sofia.bg	Bulgaria	No response
Matej Pacha	matej.pacha@ieee.org	Czech Republic	No chapter
Wojciech Krzysztofik	wojciech.krzysztofik@pwr.wroc.pl	Poland	Reported
Mark Bentum	m.j.bentum@utwente.nl	Benelux	Reported

### **AESS chapter activities in Switzerland (AES10)**

Report by Heinz Wipf

All my activities since the foundation are listed without exception in the vtool of the IEEE. For 2016 2,3 lectures are planned, in addition to a possible cooperation with the new German chapter.

### **AESS chapter activities in Benelux countries**

Report by Mark Bentum

Low frequency workshop" in Paris, September 8, 2015. In 2014 the workshop was organized in Delft with approximately 50 participants. Planned activity for 2016 is to host the IEEE Benelux AES/GRS symposium in Spring.

### **IEEE Section activities in Sweden (no AESS Chapter)**

Report by Mats Edvinsson

The Sweden Section has initiated steps and implemented some changes to re-vitalize the Section, Chapters and Affinities.

One initiative is a quarterly Member Newsletter, mailed to all members in Sweden, as well as to a few selected within R8. Its main purpose is to link the Section members by providing first hand information on the Section and highlighting activities, Chapters, Affinities, coming events etc.

Since 2013, Sweden hosts a joint autumn workshop, where the Section Board invites all Chapter Chairs for a one-day round table discussion.

In Oct 2014 the scope of the workshop was extended, by inviting also Chairs from Student Branches, YP and WiE. The workshop was focused on how to operationally improve the pan-Swedish IEEE way of working: Future development of IEEE in Sweden, initiatives and directions for the next 3 year rolling period, increased interaction and sharing between Chapters, YP, SB's and WIE.

During end of 2014 the Chapter implemented a new budget process, to increase clarity and transparency, as well as increase focus on the long term development; e. g. cooperation within and outside IEEE, assure inflow of young (student) members as well as industry participants into the Chapters and the Section.

In this context, the "Re-generating circle" was introduced. This refers to a positive spiral for the pan-Sweden IEEE: Activity drives members, which improves inputs and contributions, which leads to better economic prerequisites, which in turn facilitates investing in activities for the future. An example of the latter is Sweden hosting the first pan-Nordic Student/YP/WiE congress in Nov 2015, as well as aiming for hosting R8 meeting in 2016. In addition, new measures are implemented to improve the reporting procedures, such as all IEEE activities and financial reporting related to IEEE in Sweden. (Sweden was not performing fully according to standards in these areas a few years ago). It is also a tool for the Section Board to follow up on progress

In 2015 the Section worked to bring this further forward. A new joint workshop is planned in Oct for Chapters, SB, YP, WiE. Sweden Section celebrates 50 yr anniversary. The Section Board offered all Chapter Chairs to happily participate in whatever event, to make a 50 yr presentation, e. g. at the first pan-Nordic meeting in June 2015 by CPMT

In parallel, they are working on a document summarizing the Sweden Section 50 years. This process is also used as an input on where are we now & how to move forward.

### Section activities in Slovenia (no AESS Chapter)

Report by Urban Burnik

There are only 4 members of AESS.

There exist an increasing interest in avio and space technologies, there is not only academia but also industry (glider, ultralight plane, UAV manufacturers). The association of avio and space developers and researchers with IEEE at the moment is not strong and presumably a lot can be done to improve the visibility of AESS.

On Sept. 4th IEEE Slovenia Section hosted a lecture by prof. dr. Anton Mavretič about his activities in space research and electronics.

### Joint AESS/SP Chapter activities in Ukraine (SP01, AES10)

Report by Felix Yanovsky, Chapter Chair: Yuliya Averyanova

- 2 International Scientific and Practical Conferences of Young Researchers and Students (POLIT) in 2014 and 2015
- 9 Scientific Seminars
- Co-organization of IRS 2014, held in Gdansk, Poland, 14-18 June 2014.
- 2 International Conferences in 2014: Microwaves, Radar and Remote Sensing Symposium 2014, 3rd Int. Conf. on MSNMC, Oct. 2014.
- 2015 IEEE 3rd International Conference on Actual Problems of Unmanned Aerial Vehicles Developments (APUAVD), Kyiv, Ukraine, October 2015
- Planned: Radar Methods and Systems Workshop, Kyiv, Ukraine, Sept. 2016

### AESS chapter activities in Denmark (Joint Chapter VT06/AES10/IT12/COM19)

by Alben Mihovska

During 2014, the IEEE-Denmark Joint Chapter on VT06/AES10/IT12/COM19 had a large number of activities in Denmark and internationally, aimed at promoting, creating awareness and at strengthening the IEEE cause.

#### Meetings of Executive Board:

The Executive Board of VT06/AES10/IT12/COM19 have convened five times to discuss the Chapter strategy. Also, during 2014, Alben Mihovska from CTIF, Aalborg University has been accepted as the Chapter Secretary to replace Petar Popovski and Lars Kierkegaard from Teracom has replaced Christian Kloch as a Chapter Member.

#### Activities under the VT06/AES10/IT12/COM19 for the period 2014-2015:

The Second Global Wireless Summit (GWS) was successfully organized and hosted in Aalborg under the umbrella of the VT06/AES10/IT12/COM19, in May 2014. GWS 2014 joined under the common theme "Green and Secure Information Communication Technology," four renowned international conferences, - Wireless Vitae (which is the VT06/AES10/IT12/COM19 own conference), Prisms, IC5 and WWSMC. The conferences brought together academia, industry and standardization bodies into fruitful networking and discussions about novel and original research towards ICT globalization, including key aspects, such as energy and security in existing and future wireless technologies and enablers of smart cities and sustainable living and energy, which are also in line with the growth and development plans of Aalborg and North Jutland.

VT06/AES10/IT12/COM19 has been very active within WWRF activities, in particular, WG A of WWRF. VT06/AES10/IT12/COM19, in cooperation with the Center for TeleInfrastruktur (CTIF), Aalborg University held a number of research seminars by Distinguished IEEE Speakers, such as Dr Sudhir Dixit from HP and Dr Seshadri Mohan.

On November 17-18, 2014, VT06/AES10/IT12/COM19 organized the conference on Mobile in Developing Countries, which was held in Copenhagen, Denmark, with about 60 participants.

The 1st International Workshop on Innovation and Entrepreneurship (IWIE) was organized jointly by the Center for TeleInfrastruktur, Aalborg University, NOVI Science and IEEE-Denmark Joint CH08337 VT06/AES10/IT12/COM19. IWIE was planned as a platform for undergraduate and graduate students, researchers, industries, government, private equities and venture capitalists to express their innovative potential through ideas and get the proper support for their commercialization as start-ups. One of the focus areas was AES.

**Further activity planned for 2015 is the Global Wireless Summit (GWS 2015)** to be held on December 13-15, 2015, in Hyderabad, India. AES is part of the GWS and has a prominent place in the IEEE Wireless VITAE 2015 conference.

### **AESS chapter activities in Poland (AP/MTT/AES Joint Chapter)**

by Wojciech Krzystofik

#### **Summary Information for 2014**

- Organization of the Technical Meetings all over the Poland country in Wroclaw, Gdansk, Warsaw, Cracow, etc. - the main research and academia centers.
- Invitation of the IEEE Societies as well as the local Distinguish Lectures and Instructors.
- Chapter's flag Conference, organized biannually: the International Conference of Microwave Radar and Wireless Communication – MIKON 2014, Gdansk, Poland.
- Technical Workshop co-organized with the MIKON-2014 Conference, and by the academia.
- Attendance in the Regional Chapter Chairs Meetings
- Administrative Chapter Meetings: two stationary and more than 6 video-meetings by Internet
- Supporting the Doctoral Student to join the IEEE and organize the Workshops / Seminars.
- Promotion of the members toward IEEE grade evaluation to Senior Member and Fellow.
- 4 presentations from student members of the Chapter
- 2 presentations from non-student members
- 5 IEEE DLs
- IEEE R8 Chapter Chairs meeting in Gdansk, Poland
- Administrative AP/MTT/AES PL Chapter Meeting, Jachranka, Poland
- **MIKON 2014** - Microwave Conference + Workshop
- **IRS 2014** – International Radar Symposium, Gdansk, Poland

### **UK & Ireland**

International Director: Hugh Griffiths

#### **AESS/GRSS chapter activities in UK, Ireland**

by Yong Xue

20 July 2015, AES Distinguished Lecture 'Foliage Penetration Radar' by Dr Mark Davis

A new type of event: 'Vectors in Radar Technology', 11/12 November 2015, University College London.

The purpose of this two-day workshop is to present predictions of where radar technology is going, what are the key directions or "vectors" for radar and what their impact will be. The event is supported by the US Office of Naval Research (Global) and the Air Force Office of Scientific Research International Office, and is by invitation only.

## Australia

International Director: Joe Fabrizio

### AESS Queensland chapter activities

by Robert Kennedy

- Lecture 12 May 2015, Dr John Norgard of NASA Space Exploration: EMI/EMC Problems/Solutions NASA ~ Past/Present/Future Missions "Orion" Mars/Moon
- Lecture 17 Dec 2014, Dr Garry A. Einicke of CSIRO, Application of Frequency-Weighting to Improve Filtering and Smoothing Performance
- 26 - 28 Feb 2014, International IEEE Workshop on Asia-Pacific Satellite Navigation And Positioning Co-sponsored by Dr Garry Einicke
- International IEEE Workshop on Asia-Pacific Satellite Navigation And Positioning. CSIRO, Queensland Centre for Advanced Technologies, Pullenvale, Queensland, Australia

### Joint C&AES South Australia Chapter

by Andrew Piotrowski

C&AES chapter had 4 technical meeting, 2 Excom meetings, and 2 OTHR workshop meetings.

- 11 May 2015 - Engineering Passive and Active Metamaterial-inspired Electrically Small Radiating Systems, Prof RW Ziolkowski
- 18 May 2015 - Progress and Challenges in Microwave Imaging and Microwave Induced Thermoacoustic Tomography, Prof QH Liu
- 11 December 2014 - The development of 5G wireless systems and associated digital beam-forming techniques in Korea
- 6 November 2015 - Electromagnetic Interference Attenuation Test of the Space Shuttle Orbiter Discovery using the Air Force Research Laboratory Mobile Diagnostic Laboratory by BM Kent
- 1 May 2015 & 24 July 2015 Excom meetings
- 27 May 2015 & 28 July 2015 Over-Horizon radar workshop Committee Meeting