

# International Directors Report

AESS BOG Meeting

April 26-27, 2019

**The Westin Boston Waterfront Hotel, Boston, USA**

**Maria Sabrina Greco**

**International Directors Chair**



# AESS International Directors

- **Australia, New Zealand:** Joe Fabrizio (proposed Jason Williams)
- Canada: Erik Blasch
- China: Xiaopeng Yang
- India: Murali Rangaswamy (do we need to choose someone else?)
- Italy, Western Europe: Marina Ruggieri (she asked to be replaced)
- **Japan: Walt Downing**
- **UK and Ireland: Hugh Griffiths**
- Russia: OPEN
- Eastern Europe: OPEN
- **Region 9: Jose Bolanos**
- Singapore: OPEN

# Region 9 Int. Director Report: José Bolanos

- Email requesting activities report sent to the following chapters: Argentina, Colombia, Guadalajara Mexico, Peru, South Brazil
- Received 2019 reports from Peru chapter, Avid Roman-Gonzalez and German Cabuya, AESS Colombia chapter Vice Chairman.

# Region 9 International Director Report

## Peru Chapter (2019):

- In Peru this year there will be changes in the directive of the chapter, but have not yet occurred.
- Currently, we are collaborating in the organization the 2nd International Conference on Aerospace and Signals (INCAS) to be held in La Paz, Bolivia from 31st July to 2nd August 2019.

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## Colombia Chapter (2019):



### **AESS organized a Meet-up to commemorate the arrival of man on the moon.**

- "A great step for humanity" was the title of the Meet-up that was held on March 27, 2019 in the Library of the Francisco José de Caldas District University, Aduanilla de Paiba building. This was the beginning of a series of events for the social appropriation of science and to commemorate the 50th anniversary of the arrival of man on the moon, with the Apollo 11 mission. German Puerta, scientific disseminator of the Planetarium of Bogotá, explained the development of the space race. In addition, a panel was held with the participation of Raúl Joya, director of the Sergio Arboleda University Astronomical Observatory, Coronel (Re) Raúl Gutiérrez, Colonel Martín Zorrilla of the Colombian Air Force, Dr. Pilar Zamora Acevedo, Executive Director of the Space Agency of Colombia, and the new president (2019-2020) of the Colombian Chapter of AESS, the Engineer Giovanna Ramirez, as well as other personalities. 80 people from academia and Public and Private Innovation Leaders and 20 IEEE members participated.

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- **Relationship.** The activities of AESS have been disseminated in several radio programs by the broadcasters of the Universities of Bogotá. Such is the case of the presentation of the general plan of AESS Chapter Colombia with the Engineer Giovanna Ramirez, President AESS Colombia 2019-2020, Germán Cabuya, Vice President of AESS Colombia, and the President of the Student Branch IEEE UD, in the Relations program Institutional of the District University with the interviewer Alexis Ortiz PhD, on February 27, 2019\*.
- \*Audio in Spanish: <http://laud.udistrital.edu.co/content/rel-acciones-219>

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- **Ciberplanet.** An interesting program of dissemination of results of AESS activities was also carried out with the accompaniment Andrés Felipe Guarnizo, Secretary of AESS Colombia, Germán Cabuya, Vice President and Colonel (re) Raúl Gutiérrez, former director of the space affairs office of the Colombian Air Force, on the radio program Ciberplaneta, on the radio station LAUD 90.4 FM with the journalist Giovanna Sanchez.

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- LEONARDO 500 YEARS OF RENAISSANCE
- An academic event ***In Memoriam Leonardo da Vinci*** will be held on Thursday, May 2, 2019, from 4 to 6 PM, at the Sabio Caldas Auditorium (Carrera 8 # 40B-62). Admission is free prior registration at the entrance of the event. Jorge Reynolds Pombo, Electronic Engineer and one of the members of the Mission of Scholars of Colombia, will be one of the main speakers in a sober ceremony dedicated to commemorate the historical legacy of the engineer Leonardo, as he presented himself before the Duke of Milan in his time. Among the guests are Dr. Paolo Lugari, a great student about the production of Leonardo and the Vinci region, Tuscany, Italy. Officials of the Colombian Air Force, Aerocivil Officials. Spokespersons of the French Alliance and the Italian Institute of Culture, have also been invited to the event. The opening will have greetings from Academical Heads of the District University and other Colombian Universities and the president of AESS Colombia. Some videos and photos of the most unknown works of this man "***father of aeronautics***" and universal genius will also be screened.



# Japan International Director Report: Walt Downing

Selection of the best paper as the IEEE AES young researcher award was finally conducted on March 25 2019.

**Dr. Yasushi Shimomura and Akira Hirose, "Adaptive processing of time domain information by complex-valued self-organizing map in GPR," IEICE technical report SANE2018-2**

We will present the award gift to the recipient on June 2019.

# Japan International Director Report

Main Organizer: The institute of Electronics, Information and communication Engineering's, Kyushu Section, IEICE  
Co-organizer IEEE AES Japan Chapter

1) Prof. Yang-Lang Chang, "High-Performance Computing in Remote Sensing"

2) Dr. Andreas Danklmayer, "Aerospace Remote Sensing using Synthetic Aperture Radar - From Basics to Applications"

..... and some technically sponsored workshops

# UK and Ireland Int. Director: Hugh Griffiths

Lectures:

IEEE AESS Title: "Subangstrom-precise nanophotonic devices at the fibre surface"

Professor Michael (Misha) Sumetsky from Aston University.

DL Talk: Dr. Luke Rosenberg May 17th 2019

Chapter chair: Matthew Ritchie

# UK and Ireland Int. Director

1st June 2018: EMSIG Event

Hosted at University of Birmingham. Talks included

The Future Radar Projects for the UK MOD – Prof D. Blacknell (DSTL)

Mothers of Invention: the necessity of Industry and academia working together – Dr D. Greig (Leonardo)

Report from EMSIG SAR Focus Group

Dr M. Antoniou (UoB), D. Coe (QinetiQ)

Report from EMSIG MODEST Focus Group (Modern Trends in Short Range Sensing)

Prof M. Gashinova (UoB), Dr F. Fioranelli (UoG)

CDT “End User Applications of Quantum Technology Sensors”, Prof K. Bongs (UoB)

CDT “Topological Design”, Prof M. Dennis (UoB)

CDT “Radar for autonomous world”, Prof C Baker (UoB)

Attendees: Approx. 80

# R10 Int. Director report: Joe Fabrizio

## Lectures

- Title: Radar Development in Australia: from World War II to the Jindalee Operational Radar Network  
Speaker :Dr Don Sinnott
- Title : Predicting Aircraft and Pedestrian Trajectories By Learning Long-Term Temporal Dependencies  
Speaker: Tharindu Fernando (QUT)
- Title : Introduction to Over-The-Horizon Radar and Robust Adaptive Processing  
Speaker: Dr Joe Fabrizio
- Title : The Jindalee Over-The-Horizon Radar: Its Past, Present and Future  
Speaker: Dr Don Sinnott and Dr Gordon Frazer (DST Group)
- Title : AESA Radar, Metamaterials, & Cognitive Adaptive Array Processing  
Speaker: Dr Eli Brookner, Raytheon Retired
- Title : Radar, Phased-Arrays, Metamaterials, Stealth, Anti-Stealth, Ultra-Wideband, Cognitive Adaptivity, MIMO -- Advances and Breakthroughs  
Speaker: Dr Eli Brookner, Raytheon Retired
- Title: Some EMC issues in Radio Astronomy  
Speaker: Dr. Franz Schlagenhauer
- Title: Fifth Generation Aircraft  
Speaker : Dr. Tony Zyweck

# R10 Int. Director report: Joe Fabrizio

## **Workshops/Conferences:**

International Conference on Radar 2018 (co-sponsored by SA and Qld Sections), 27-30 August 2018

Radar Conference 2018 Student Paper competition (sponsored by SA Chapter), 28 August 2018

IEEE SA Section Networking night, 3 October 2018