2015 Distinguished Lecturers

Contact: Dr. Joe Fabrizio, Vice President - Education

All AESS Chapters and IEEE Sections are encouraged to take advantage of the AESS Distinguished Lecturer and Tutorial Program for their regular or special meetings. We have selected an outstanding list of speakers who are experts in their fields. The AES Society will pay reasonable speaker's expenses for economy-class travel, lodging and meals. As a general guideline, speaker's expenses involving travel wholly within North America or within the European Union will be covered up to $1,000. Expenses involving extensive international travel will be covered up to $2,000. The Society encourages arrangements whereby more than one lecture is presented in a single trip, and costs in such situations will be considered on a case by case basis. The inviting organization is expected to cover 50% of the speaker's expenses. The procedure for obtaining a speaker is as follows: If a Chapter or Section has an interest in inviting one of the speakers, it should first contact the speaker directly in order to obtain his or her agreement to give the lecture on a particular date. After this is accomplished, the Chapter or Section must notify the AESS VP for Education, joe.fabrizio@dsto.defence.gov.au. If financial support from the AESS is required for the speaker's expenses, he or she must submit an estimate to the AESS VP for Education before actually incurring any expenses. This estimate must be provided at least 45 days before the planned meeting to provide time for feedback from the VP for Education and for changes if needed. The VP for Education must provide written authorization to proceed.

Target Tracking and Data Fusion: How to Get the Most out of your Sensors
Yaakov Bar-Shalom, University of Connecticut
ybs@engr.uconn.edu, (860) 486-4823

High-Level Information Fusion Theory, Models and Representations
Information Fusion Performance Evaluation
Methods of Image Fusion
Erik P. Blasch, US Air Force Research Lab
erik.blasch@gmail.com, (315) 330-2395

Achievement, Breakthroughs and Future Trends in Phased Arrays and Radars – Updated to 2014
MIMO Radar – Demystified and Where it Makes Sense to Use
Around the World in 60 Minutes- - Exotic Places With a Twist – *An Informative Entertaining, Humorous Evening for the Whole Family*
Eli Brookner, Raytheon Company (Retired)
eli.brookner@gmail.com, (781) 654-5550

National Missile Defense
Larry Chasteen, University of Texas – Dallas
chasteen@utdallas.edu, (972) 234-3170

MIMO Radar: Snake Oil or Good idea?
Never Trust a Simulation without a Simple Back-of-the-Envelope Calculation that Explains it
Nonlinear Filters with Particle Flow
Real World Data Fusion
Is there a Royal Road to Robustness
Frederick E. Daum, Raytheon Company
frederick_e_daum@raytheon.com

Foliage Penetration Radar
Mark E. Davis, Independent Consultant
medavis@ieee.org, (315) 896-6373

Satellite Communication Systems
Saj Durrani
s.durrani@ieee.org, (301) 774-4607

Robust Adaptive Array Processing for Radar
Tutorial- Over-The-Horizon Radar: Fundamental Principles, Adaptive Processing and Emerging Applications
Giuseppe Fabrizio, Defence Science & Technology Organisation
joe.fabrizio@dsto.defence.gov.au, +61 (08) 73896775

Radar Adaptivity: Antenna Based Signal Processing Techniques
Alfonso Farina
alfonso.farina@outlook.it, 06-41502279

Compression Based Analysis of Image Artifacts: Application to Satellite Images
Avid Roman Gonzalez, UPCH Perú
avid.roman-gonzalez@ieee.org, +51 984904763

Sea and Land Clutter Statistical Analysis and Modeling
Advanced Techniques of Radar Detection in Non-Gaussian Background
Sensor Selection for Multistatic Radar Networks
Maria Sabrina Greco, University of Pisa
m.greco@ieee.org

The Challenge of Waveform Diversity
Bistatic & Multistatic Radar
Hugh D. Griffiths, University College London
h.griffiths@ieee.org, +44 20 76793966

Cognitive Dynamic Systems (CDS)
Cognitive Control
Cognitive Radar
Simon Haykin, McMaster University
haykin@mcmaster.ca, (905) 525-9140

Multistatic Exploration – Introduction to Modern Passive Radar and Multistatic Tracking & Data Fusion
Tracking and Sensor Data Fusion – Methodological Framework and Selected Applications
Wolfgang Koch, Fraunhofer FKIE
wolfgang.koch@fkie.fraunhofer.de, +49 (228) 9435-373

Antenna Systems for Aerospace Vehicles – Global Navigation Satellite System
Surendra Pal, ISRO Satellite Center
pal_surendra@hotmail.com, +91-80-25205275

Effective Maritime Domain Awareness – A Systems of Systems Approach to Generating Actionable Intelligence
Tony Ponsford, Raytheon Company
tony_ponsford@raytheon.com, (613) 772-2997

Business Case for Systems Engineering – Is Systems Engineering Effective?
Robert C. Rassa, Raytheon Company
rcrassa@raytheon.com, (310) 985-4962

Inertial System and GPS Technology Trends
Navigation Sensors and Systems in GNSS Degraded and Denied Environments
George T. Schmidt
gtschmidt@alum.mit.edu, (781) 863-1637

Dated: September 2015