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Society News

Welcome Message by Hugh Griffiths *AESS President 2011-2012*



Did You Know?

Did you know that AESS is on [LinkedIn](#) and [Facebook](#)? Please join us!

As I write this I am at the Spring meeting of the AESS Board of Governors. The Board meeting occupies one-and-a-half days and provides a means to review and develop strategic plans for the Society. We have welcomed eight new Board members who were elected last year: Yuri Abramovitch, Dale Blair, Walt Downing, Joe Fabrizio, Maria Greco, Lance Kaplan, Bob Lyons Jr. and Teresa Pace. The Board meeting is taking place at the PLANS (Position Location And Navigation Symposium) conference, which is jointly sponsored by the Institute of Navigation and IEEE AESS. I am keen that our Board meetings are held to coincide with conferences, since that gives the wider membership the chance to identify and to meet with Board members and to hold them to account. You can of course see the full membership of the Board and their contact details on the AESS website.

Awards



Jim Leonard presented with the University of Akron Distinguished Engineering Alumni Award.

[Full story . . .](#)

These are exciting times for AESS. There are some significant changes in publications, which should become evident later this year. Conferences, Technical Operations, Membership, Education, Finance and Industry Relations have also been thoroughly reviewed. My own priorities for my Presidency are to emphasize the global nature of AESS's activities, and to build our membership. I'm sure each one of you knows someone who ought to be a member of AESS but somehow hasn't yet got round to joining. Please encourage them to do so - it's very easy to do !

--Hugh Griffiths

Call for Nominations - Frank McGinnis Award - Nomination deadline 31 May 2012

The prestigious Frank McGinnis Professional Achievement Award will be presented at IEEE AUTOTESTCON 2012 in Anaheim, California on September 13, 2012 to the individual who best upholds the tradition of advancing the field of Automated Test. This award is named for Automated Test pioneer and Sperry employee, the late Frank McGinnis, who spearheaded a Navy (1975) and then a Joint Services (1978) Automatic Test Project to identify and recommend those areas where the military should invest in automated test research & development, and improve management practices. It resulted in the formation of the National Defense Industrial Association (NDIA) Automatic Test Committee which endures today, and which also holds one of its annual meetings in conjunction with AUTOTESTCON. The award includes recognition on a perpetual crystal trophy, an obelisk, and \$2000.00. The perpetual crystal

The **AESS Board of Governors** held their Spring 2012 meeting on April 25-26, 2012 in conjunction with The Position Location and Navigation System (PLANS) Conference in Myrtle Beach, SC.

The AESS Board of Governors elected 2 new members of the Board, to serve for the term 2013-2015. They are:



Iram Weinstein



Wolfgang Koch

The full AESS Membership will be electing the remaining 6 members of the board in an election that will begin May 29 and end July 10. Keep alert for the election materials to arrive to you, and please cast your vote in this very important election!



AESS BoG 2012 - Myrtle Beach



trophy is on display at the National Electronics Museum in Linthicum, Maryland. It was previously known as the Westinghouse Radar Museum.

For more information and the nomination form, [click here](#)

Frank Reyes, Marina Ruggieri, Reza Dizaji



Frank Reyes, Reza Dizaji, Marina Ruggieri, Ron Ogan.

Membership

Hello, I am the new AESS VP of Membership. I recently retired from Texas Instruments/Raytheon and am now a professor at the University of Texas at Dallas. More information about me is on the AESS webpage. I wanted to introduce myself and give you an update on membership.

At the end of 2011, total IEEE Membership was over 400,000 members - our highest ever. Total Society Membership was also up – over 335,000. However, AESS membership ended the year at 5,123 – about 100 members less than in 2010. Also, renewals for 2012 are behind 2011 for total IEEE, total societies, and for AESS.

Therefore, everyone in IEEE is encouraging renewals and new

IEEE AESS Society Expense Reporting Process

[Click here for more information](#)

[IEEE Expense Reporting Form](#)

Conference Information

Please go to the [AESS Web Site](#) to see a list of upcoming conferences.



AUTOTESTCON will be held at the Disneyland Resort and Conference Center in Anaheim, California, on September 10-13, 2012.

Abstracts are to be submitted to the Abstract Management website no later than March 31, 2012 (corrected submission deadline) at <http://www.edas.info/11707>.

For Technical Program information contact:
Michael T. Ellis, Technical Program Chairman
Northrop Grumman Corp.
21240 Burbank Blvd.
Woodland Hills, CA 91367
(818) 715-2944
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For other information contact:
Bob Rassa, General Chairman
Raytheon Company

members – and we need your help. I feel that the best advertisement for AESS is colleague referrals. Also, a strong local chapter is another method to build membership.

Some of the initiatives we are pursuing in 2012 include:

- promote membership in AESS at all conferences
- increase and strengthen our AESS chapters with guest lecturers and BoG visits
- hold a Chapter Summit every three years – next is in Amsterdam in 2014
- set up a "forum web page" to increase chapter communications
- we published an AESS brochure that lists the benefits of AESS membership
- the brochure is available as an electronic documents that can be emailed.
- the brochure is available for download off the web site - <http://www.ieee-aess.org/>

If you have additional ideas on how to

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We are very pleased to invite you to the ESTEL 2012, the first *International IEEE-AESS Conference in Europe on Space and Satellite TELEcommunications*.

The Conference will be held on October 2-5, 2012 in Rome, Italy at the *Roma Eventi Fontana di Trevi Conference Centre*, in the heart of Rome historical centre.

For the latest information, [click here](#).

Please go to the [AESS Website](#) to see a list of upcoming conferences.

Please see the following AESS Conference Call for Papers:

- [AUTOTESTCON 2012](#)
- [AUTOTESTCON 2012 Preliminary Announcement](#)
- [Radar 2012 International Conference on Radar Systems](#)
- [ESTEL 2012](#)
- [ESTEL 2012 Press Conference](#)
- [FUSION 2012](#)
- [Radar 2012](#)
- [PLANS 2012](#)
- [2012 IEEE-USA Student Conference](#)
- [IEEE 2013 Conference on Phased Array Antennas and Propagation](#)

Technical Operations

Avionics Systems Technical Panel Forming

AESS is sponsoring the formation of a new Avionics Systems Technical Panel. The focus will be on research, development, design, application, and test of avionics (navigation, display, surveillance, communications) for manned and unmanned systems. This will include ATM and Next Gen implementation. The committee will also address standards development; education, awards and conference management.

increase membership, please let me know. I am looking forward to another great IEEE/AESS year.



Larry Chasteen, PhD
AESS VP
Membership

Student Activities

Dear Members,
First ever high valued summer school/refresher course is being held on Advanced algorithms on 4-15th June at Thapar University, Patiala. Event is sponsored by ACM SIGACT North India, Technical Sponsorship by IEEE India Council, IEEE Computer Society Delhi Section, In cooperation with IEEE AESS (Aerospace Electronic System Society) and IEEE Student Chapter, Thapar University
Objective of this workshop/ training course is to promote high quality teaching and research in theoretical computer science and computational

Additionally, the committee will provide oversight and volunteers for the Digital Avionics Systems Conference and the Integrated Communications Navigation and Surveillance Conference. Both conferences address core areas of interest of this technical panel and AESS.

If you're involved in the avionics industry please consider volunteering for this committee. Contact Paul Kostek, p.kostek@ieee.org for more information or to volunteer.

Publications

Itzhack Y. Bar-Itzhack, professor emeritus of aerospace engineering at the Technion -- Israel Institute of Technology, passed away in May 2007, almost 5 years ago. His loss is still greatly felt among the many people who knew him, and in the estimation and navigation communities in Israel and in the world. Itzhack was a Fellow of the IEEE, Chair of the Israeli chapter of AESS, and in 2004 he was the recipient of the prestigious AESS Kershner Award, recognizing "individuals who have made a substantial contribution to the technology of navigation and position equipment, systems or practices".

By "popular demand", we are organizing a special, international, memorial symposium, to commemorate Itzhack and his seminal and pioneering contributions to inertial navigation, estimation theory, and spacecraft control (attitude and orbit determination and control). The symposium will take place in October 2012, at the Dan Panorama hotel, Haifa, Israel, and it is organized under the auspices of the Technion's Faculty of Aerospace Engineering and the Israeli Association for Automatic Control (IAAC), with support from the Israeli Chapter of AESS and additional universities, companies, research and other organizations.

The Call for Papers is posted on our website, at <http://barsym.technion.ac.il/BarSymBrochure2.pdf>. The paper submission website, <https://controls.papercept.net>, is already open for submission of full draft papers or extended abstracts including sufficient technical detail. So far, three distinguished researchers have agreed to give plenary lectures at the symposium: Dr. F. Landis Markley (NASA/Goddard Space Flight Center), Prof. Mark L. Psiaki (Cornell University), and Dr. Hector Rotstein (RAFAEL).

Summary of important data:

SYMPOSIUM VENUE AND DATES:

Dan Panorama Hotel, Haifa, October 14--17, 2012.

Important Dates:

Initial submission deadline: April 15, 2012

Notification of acceptance: June 15, 2012

algorithms.

- Are you fascinated by algorithms and curious about what algorithmists do?
- Do you like to solve challenging and puzzling computational problems?

If your answer is yes, then join us with other motivated teachers and researchers from across the world.

[Click here for Contents of the Workshop](#)

[Click here for Guidelines for applying and attending the workshop](#)

Candidates will be given free boarding/Lodging and ACIII Tier travel reimbursement.

Convener and resource person, Dr Deepak Garg Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India -147004 Chair, ACM SIGACT North India, Secretary IEEE CS Delhi Section www.gdeepak.com

Education

If you haven't explored our [Educational Video Tutorial System](#) on the AESS website, this would be a good time to do so because we've added several new entries. In additional

Final paper submission deadline: August 31, 2012

Early registration deadline: September 6, 2012.

Websites:

[Symposium: http://barsym.technion.ac.il/index.html](http://barsym.technion.ac.il/index.html)

Paper

[submission:https://controls.papercept.net/conferences/scripts/start.pl](https://controls.papercept.net/conferences/scripts/start.pl)

CONFERENCE SECRETARIAT: BarSym@technion.ac.il

Thanks for your attention, Yaakov Oshman

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Call For Papers

IEEE Transactions on Aerospace and Electronic Systems – Special Section on “Compressed Sensing Applied to Radar”.

Manuscript submission due on **31 July 2012**. View the full CFP [here](#).

Introducing new Transactions on AES Associate Editor

We are please to announce that Prof. Shinichi Nakasuka from the University of Tokyo has been appointed as an AE of Guidance and Control working under Min-Jea Tahk. Welcome Dr. Nakasuka!

Introducing new AESS Systems Magazine Associate Editor



Introducing **Scott B. Bawden**, a new Associate Editor for the Systems Magazine! Mr. Bawden is with Lockheed Martin in Global Training and Logistics - Advanced Systems. His area of expertise is Maritime/Energy. Welcome Mr. Bawden!

Systems Magazine Archives

Did you know that we have Systems Magazine Archives on the AESS web site? Click [here](#).

to the six tutorials listed on that page for AESS members, we have added links to several other sites offering coursework and lectures that may be of interest to our members. Look under [Other Tutorials](#) tab to access them. The Radar Systems Engineering Course is constantly being expanded, and now contains seventeen segments, each with a video lecture and downloadable pdf copies of the slides. Also, we've just added a link to several interesting lectures that were presented at meetings of the Seattle Section.

These links are provided as a service of our members. If you know of others that would interest our members, please let us know by email to [Dr. Iram Weinstein](#), our VP for Education.

AESS Web Site

As a service to our members, the AESS website has job opportunities listed. Please visit the [AESS website, Job Opportunities](#).

To submit new articles, please send an email with your article to AESS QEB Editor, [Cosimo Stallo](#), subject line: "Quarterly Email Blast Article Submission". The next publication will be in July, 2012, deadline for submission is June 15, 2012.

Upcoming Transactions Posted on the AESS Website

For a listing of Upcoming Transactions, please visit the [AESS website, Upcoming Transactions](#).

Coming up in the Systems Magazine. . .

New Class of Grayscale Morphological Filter to Enhance Infrared Building Target, Jing Guan, Tianxu Zhang, Xiaoping Wang, Junjin Mei

Persistent Wide Area Surveillance from an Airship, John J. SantaPietro

Design and Implementation of a Digital Real-Time Target Emulator for Secondary Surveillance Radar/Identification Friend or Foe, Sharef Neemat, Michael Inggs

A New Approach to Designing Electronic Systems for Operation in Extreme Environments: Part I – The SiGe Remote Sensor Interface,

Ryan M. Diestelhorst, Troy D. England, Richard Berger, Ray Garbos, Chandradevi Ulaganathan, Ben Blalock, Kimberly Cornett, Alan Mantooth, Xueyang Geng, Foster Dai, Wayne Johnson, Jim Holmes, Mike Alles, Robert Reed, Patrick McCluskey, Mohammad Mojarradi, Leora Peltz, Robert Frampton, Cliff Eckert, and John D. Cressler

Synthetic Aperture Radar, Shaun I. Kelly

Developing a Business Case for Systems Engineering, Joseph P. Elm

Doppler Radar Calibration System, J. R.O. Fernández, C. Briso-Rodríguez, J. Calvo-Gallego, V.A. Araña-Pulido, M. Burgos-García, and F. Pérez-Martínez

A New Approach to Designing Electronic Systems for Operation in Extreme Environments: Part II – The SiGe Remote Electronics Unit, Troy D. England, Ryan M. Diestelhorst, Eleazar W. Kenyon,

Vishwa Ramachandran, Richard Berger, Raymond Garbos, Ben Blalock, Alan Mantooth, Matthew Barlow, Foster Dai, Wayne Johnson, Charles Ellis, Jim Holmes, Chip Webber, Michael Alles, Robert Reed, Patrick McCluskey, Mohammad Mojarradi, Leora Peltz, Robert Frampton, Cliff Eckert, and John D. Cressler
