Reps and Liaison Reports to the AESS Board of Governors
Spring Meeting, April 15-16, 2011

IEEE Entities

IEEE Press – George Zobrist

Subject: IEEE Press books and Membership Benefits

Dear Colleagues,

Since we have received a few queries concerning the above-mentioned
membership benefits, Lani at IEEE kindly provided a few links for your
further information.

The following link brings people to the page that enumerates/explains the
benefits of being an IEEE member. The IEEE eBook Classics is the first item on the page as
new benefit.

http://www.ieee.org/membership_services/membership/benefits/index.html

While the next link brings you directly to the eBook Classics explanation page:
 http://www.ieee.org/membership_services/membership/products/ebookclassics.html

With best wishes

Lajos

> Journal of Lightwave Technology – Michael Cardinale

Nanotechnology Council Representative – Meyya Meyyappan

The Nanotechnology Council in the last and current fiscal years is financially sound with
surpluses. The Transactions has been maintaining the page limits and publication schedules
while holding a good impact factor among the nano journals. The Nanotechnology Magazine is
running smoothly now, and making money as well.

Working with the Educational Activities Board, the Council has created a new Nano website
meant for High School Students and educators. Please check out: www.trynano.org   This web
is modeled after the IEEE website tryengineering.org. The Council found a sponsor to create a
Korean version which can be seen on the web. Efforts are underway to create Chinese,
Spanish, Arabic and other language versions. The cost is a one-time fee of 7K to IEEE to be
paid by the Sponsor plus translation costs. If you know of sponsors who can bear these costs
for the language of their choice, your help is much appreciated.

The next flagship IEEE Nano 2011 conference will be in Portland on August 15 and I plan to attend the ADCOM as a voting member of AESS.

Sensors Council – Michael Wicks

As the IEEE AESS Liaison to the Sensors Council, I regret to inform you that I was unable to attend the IEEE Sensors 2010 Conference. Prior to this event, I was in contact with Ms. Christina M. Schober, president of the IEEE Sensors Council for 2010 - 2011. In our discussions, I had proposed launching a new event that would be of interest to the AESS, its members, and the Sensors Council. Details were to have been worked out at the November 2010 Sensors Council Conference. My current plan is to work out the details of this proposed joint-interest event at the IEEE Sensors 2011 Conference, which will be held 28 - 31 October in Ireland. At present, I am seeking assistance from Ms. Patty Woodard from Simply the Best Event Planning, as they are hosting a Workshop on Future Trends in Sensor Diversity, Signal Processing, & Exploitation at Dibble's Inn in Vernon, NY on 20 April 2011. Since I am the plenary speaker at this event, I personally know the presenters and participants very well. Upon completion of this event, my plan is to submit the event proceedings on CD to Dr. Mark Davis, AESS Board of Governors and Vice President of Conferences, and to Ms. Schober. My intent is to formally launch an event that continues with this theme of Sensor Diversity in 2012. This event could be stand alone, or a special session at the IEEE Sensors 2012 Conference (Taipei, Taiwan; 28 - 31 October) the IET Radar 2012 Conference (Glasgow, UK; 22 - 25 October), or at IEEE RadarCon 2012 (Atlanta, GA; 7 – 11 May). This last event may be too soon to organize a truly joint session bringing together the AESS and the Sensors Council. After my formal retirement from the USAF on 6 May 2011, I will make organizing this event and establishing this important relationship a priority that benefits both the AESS and the Sensors Council. I plan to meet with Dr. Mark Davis and Professor Hugh Griffiths (both members of the IEEE AESS Board of Governors) on 21 April 2011 to discuss this issue further.

The papers presented at the IEEE Sensors 2010 Conference span a wide variety of topics (one could even say diverse) including Integrated Sensors and Signal Conditioning, MEMS Material Properties, Acoustic and Optical Sensing (not limited to close-in sensing applications), Multispectral Systems, Phenomena, Modeling and Evaluation. The list of papers is 63 pages long! As such, Sensor Diversity is a topic that should be of keen interest to conference participants. Since our upcoming workshop in Vernon, NY is dominated by AESS members, we could expect joint activity to result in a broad range of collaborations. I am especially keen on bringing the systems oriented perspective that is pervasive throughout AESS to the Sensors Council and its conference participants. Truly, this becomes a win-win situation.

With the permission of the IEEE AESS leadership, the undersigned will aggressively pursue this professional collaboration at an event yet to be determined, even though the IEEE Sensors 2012 Conference offers the ideal venue.

No other significant contact with the IEEE Sensors Council is reportable at this time.

Ph.D., Fellow IEEE, Fellow AFRL
Senior Scientist for Sensors Signal Processing, ST, DV-6
Air Force Research Laboratory

Systems Council – Roger Oliva

Biometrics Council – Bob Rassa

IEEE-SA – Rich Hochberg

IEEE-USA Communication & Information Technical Policy – Reza Dizaji

The Committee on Communication Policy released two position statements last year:

-*Network Traffic Management (Nov. 2010)*

-*Voice over Internet Protocol (VOIP) (Feb. 2010)*

IEEE US position on Network Traffic Management:

Background:

The Internet has become the key to the U.S. communications infrastructure and country's economic growth. However, there is little regulation of Internet traffic practices to enforce industry adopt transparent norms based on quantitative performance measures.

IEEE-USA Concern:

The health of internet and assuring fair delivery of its services with acceptable performance is often dependent on network traffic management. There is little regulation concerning the network traffic management. To assure the health of internet, the United States must reassert its influence in guiding the Internet.

IEEE-USA Position:

1. Congress should authorize regulators to monitor network traffic management practices and metrics, and to remedy any abuses of norms established by authorized rulemaking.
2. Regulators should provide structural incentives for greater competition among Internet service providers.
3. Regulators should require full disclosure of service offerings and resulting performance.
4. Industry should offer clearly defined, on-request, tiered service levels to users based on quantitative, standardized, and regularly-updated performance measures.
5. Internet service providers should differentiate traffic based only on user-purchased service levels, and not on content, originator, or consumer.
6. Network providers, to guarantee quality of service, should construct contractual agreements that adequately reflect capabilities.

IEEE-USA Pace – Jim Leonard

IEEE-USA Research & Development Technical Policy

IEEE-USA Transportation & Aerospace Technical Policy

IEEE Committee on Earth Observation

Radar Conference Liaison Report – Mark Davis

The Radar Conferences sponsored by IEEE are two series.

Financial Cosponsored Conferences -- IEEE Radar Conference

2011 IEEE Radar Conference - 5/23/11   Weston Hotel, Kansas City
MO   www.ieeeradarcon11.org/   Gen Chair: Shannon Blunt
  AES Liaison Mark Davis, Financial 50:50 with Kansas City Section

2012 IEEE Radar Conference   5/12/12   Atlanta GA   www.RadarCon2012.com
Gen Chair: Joe Bruder
  AES Liaison Mark Davis, Financial 50:50 with Atlanta Section

2013 IEEE Radar Conference   4/29/13   Ottawa Canada url: tbd, Gen
Chair: Dr Maria Rey
  AES Liaison Mark Davis, Financial 50:50 with Ottawa Section

Technically Cosponsored Radar Conferences:

2011 International Radar Conference (Radar 2011) - 10/24/11   Chengdu
China   www.radar2011.org TCS CIE - 10/15/10
  AES Liaison - Wu Shunjun

2012 International Radar Conference (Radar 2012) 10/22/12   Glasgow
Scotland   www.radar2012.org TCS IET - in process
  AES Liaison - Hugh Griffiths

We are in the middle of closing out 2010 International Radar Conference (Radar 2010) which
will be delinquent next month.

Aerospace Conference Liaison Report – Marina Ruggieri

This is a very healthy, well-structured and organized conference. Also the volunteers group for
tracks and sessions is motivated and competent.
The Conference is able to follow the new topics and to adjust itself every year, to evaluate if
sessions are successful or need to be cancelled/restructured. The junior conference is
continuously growing.
There are very nice key-note speakers. Overall: an A score.

ICNS Conference Liaison Report – Paul Kostek

ICNS (http://i-cns.org/)

The 11th ICNS will be held in May (10-12) in Washington, DC. This is the 5th year that AESS and AIAA are co-sponsoring the conference. Planning for this year's conference has gone well, Bob Kerczewski of NASA is the General Chair and Tom Redling of L-3 the Technical Chair. Ellis Hitt is serving as Treasurer and Registration Chair. Attendance should be in the 200-250 range and AESS continues to get great visibility within the NASA and FAA communities.

DASC Conference Liaison Report – Paul Kostek

DASC (http://dasconline.org/)

The planning for the 30th DASC to be held in Seattle is proceeding with Chris Watkins from AIAA serving as Chair and Theo Saunders as Program Co-Chair with Suzanne Bradley of AIAA.

The DASC will have a new event this year a Student Expo on the evening of October 19th. This session will include presentations from students in K-12 and university level.

For both of these conferences (ICNS and DASC) we need to increase the number of AESS volunteers involved in the management/operation of the conferences. We're especially failing in our role in the leadership of the DASC. The operation plan since the beginning was each sponsor (AESS and AIAA) would alternate years as Technical and Conference Chair. The last 2 years have seen our representative fail to perform and be mostly invisible as Program and Conference Chair. While I understand professional demands can require that volunteer activities be placed at a lower priority, communications needs to be retained and if need be the volunteer should step aside. I do not believe we are fulfilling our part of the agreement with AIAA.

I believe the best way to address this is to find a home panel/committee for the DASC and ICNS. Currently both do not have active oversight within AESS and I believe if assigned to an existing panel, or a new panel, would lead to an increased volunteer base to draw conference volunteers from.

Carnahan Conference Liaison Report – Reza Dizaji

-The conference technical co-sponsorship with AESS is signed on April 2, 2011.
-The Conference Chair is contacted to include AESS representative in Conference Committee decision, paper selection, and review.

The timeline for the conference:

Abstract submission deadline: April 14, 2011
Notification of acceptance: April 30, 2011
Receipt of camera ready paper: June 30, 2011

NAECON 2011 – Erv Gangl

The theme for 2011 is "Intelligent Aerospace Integration"

20-22 July 2011 at the Holiday Inn, Fairborn, Ohio

A new award has been named after a stout supporter of NAECON from the Dayton area who passed away this last year. It will be the "Dr. Dan Rappenger Outstanding Paper Award".

Areas of Interest for NAECON papers:

- Interactive Aerospace Electronics and Advanced Controls Technologies
- Collaborative and Cognitive Systems
- Radar Signal Image Processing
- Reconfigurable Computing
- Advanced Phase Array Systems, Antennas and Applications
- Tomography
- RF and Nonlinear Signal Processing
- Advanced Terahertz and Millimeter Wave Devices
- Bio-Inspired Systems and Medical Applications

NAECON Chair and Organizer: Robert Ewing

PLANS – Cosimo Stallo

PLANS 2012 TECHNICAL PROGRAM TIME-LINE (as of 10/14/2010)
April 23-26, 2012: Marriott, Myrtle Beach, SC
General Chair: Wayne Soehren

Program Committee: Dr. Mike Veth & Dr. Gary McGraw

IEEE AESS Inertial Representative: TBA

Tutorials Chair:

<u>2011</u>

March   Have IEEE AESS Inertial Representative & PLANS Tutorials Chair identified to work on technical inertial track.

Jul. 8   PLANS Program Chair's final information *Call for Papers* due at ION National Office. Includes: session titles & descriptions, session chairs names and affiliations, paragraph on meeting emphasis and information on PLANS awards/call for nominations.

Reminder: Program Committee needs to advise Session Chairs and Co-Chairs of paper review responsibilities and timelines when invitations are extended.

Note: The ION Conference Committee* is a collaborative resource available to you for program development. The ION's Conference Committee can provide the Program Chair guidance on selection of timely session topics as well as assure diversity within the selection of session chairs. Recognize that successful sessions at have typically been based on subject areas that are, or will be, very well funded and this also must be taken into consideration in the selection of session topics. While the Program Chair is encouraged to

collaborate with the Conference Committee*, the overall responsibility for the technical program rests with the PLANS Program Chair/PLANS Executive Committee.

    * ION Conference Committee is chaired by the ION's Exec. VP and membership is comprised of the ION's Land, Air, Space and Marine Representatives.

Session Chair Selection: For each session, one Session Chair (primary responsibility) and one Session Co-Chair shall be identified. Session Chair should be a recognized leader/expert in the technology he/she is representing with enough name recognition to attract papers, and to solicit papers if the session does not adequately fill out on its own. The Session Co-Chair can then be an "up and coming" person in the field. You should look for session chairs that will take ownership of their session to make sure the latest technology is presented and their session topic is adequately represented. Session Chairs should provide a broad representation across government, academia, and private industry, international representation and gender. Session Chairs and Co-Chairs should also be advised when they are invited that the conference does not subsidize travel or registration expenses as part of their participation.

    Number of Sessions: Note that the facilities dictate that you can run up to four parallel sessions Tuesday-Thursday (tutorials on Monday).

Jul. 11-15   Production of *Call for Papers*. Mailing list preparation (PLANS/ION list & targeted list rentals).

Jul. 18-20   Proofing of *Call for Papers* by Program Committee.

Jul. 22   *Call For Papers* to printer. Begin to collect photos of session chairs for program. Posting of *Call for Papers* on web site, update/establish links from IEEE and PLANS sites.

Aug. 3   *Call For Papers* to mail-house for mailing.

Sept. 20-23   Distribute *Call for Papers* at ION GNSS and other appropriate meetings.

Oct. 20   ION National Office to send reminder e-mail to membership that Nov. 1 is the last day to submit abstract.

Nov. 1   LAST DAY TO SUBMIT AN ABSTRACT. (Selection based on abstracts.) Enter abstracts in database.

Nov. 7   National Office distributes electronic version of abstracts to Program and Track Chairs. Program Committee reviews abstracts, solicits additional abstracts if required.

Nov. 14   National Office sends abstracts to Session Chairs with instructions for approval. Accepted abstracts will be listed in the conference program in alphabetical order based on

the primary author's last name. Papers will NOT be numbered or designated as primary or alternate.

Nov. 21   Session Chair /Co-Chairs send selected abstracts to Track Chairs.

Dec. 2   Track Chairs and Program Chairs finalize program.

Dec. 5   *Advance Technical Program* due at ION National Office. This includes alpha ordering of accepted abstracts and tutorial details. Also need any required information on PLANS awards.

Dec. 5-9   Production of *Advance Program*. Mailing list preparation (PLANS/ION list & rentals).

Dec. 14-16   Proofing of *Advance Program* by Program Chair.

Dec. 19   *Advance Program* to printer. Posting of *Final Program* web sites.

Dec. 28   Conditional acceptance/rejection letters e-mailed to authors (conditional based on submission and approval of final paper by March 19). Accepted authors provided with electronic versions of authors kit, publication guidelines, copyright release form and conference program. Author visa letters shall be provided to international authors as requested.

Dec. 28   Session Chair/Co-Chair kits e-mailed with copy of author's kit and contact listing of authors presenting in their individual sessions.

2012

Jan. 20   Nominations due for Kershner Award.

Jan. 4   *Advance Program* to mail-house for mailing.

Mar 19   PAPERS FOR *PLANS Proceedings* DUE at ION National Office (hard deadline). Abstracts for which full papers have not been received shall be withdrawn from presentation consideration.

Mar 21-22   National Office shall load papers to web site and provide Session Chairs with on-line access.

Mar. 22   ION National Office to send reminder e-mail to membership that Mar. 30 is the

last day to register without a late fee and Apr. 1 is last day to make hotel reservations for

guaranteed group rate.

Mar 23-Apr 2 Papers will be reviewed by Session Chairs. Based on paper reviews Session Chairs shall:

- Designate papers as primary and alternate.
- Provide the National Office with presentation ordering.
- Make recommendations to the Walter Fried Award Committee as to top paper(s) in session that shall be considered for Fried Award.

Papers will be loaded to web site for conference pre-registrants to view on a complimentary basis until conference proceedings are issued on CD. **Last day to submit paper to be considered for Walter Fried Award.**

Mar. 30   Last day conference participants are guaranteed to receive room at hotel at the special conference rate. (PLANS Executive/Program Committee is responsible for their individual hotel reservations).

Mar. 30   Last day to postmark/fax/e-mail conference registration without a late fee.

Apr. 2-4   ION National Office produces *On-Site Technical Program*.

Apr. 5-6   Proofing of *On-Site Technical Program* by Program Committee.

Apr. 9   *On-Site Technical Program* sent to printer and loaded to web site. Authors shall be notified when final technical program is published on-line to obtain presentation order and time.

Apr. 13   Program and General Chair to receive memo from L. Beaty with suggested

protocol for on-site meeting responsibilities.

Apr 23-26   **PLANS 2012,** Marriot, Myrtle Beach, SC.

May 7   Revised papers for publication in *Conference Proceedings* will not be accepted after this date. (This is a non-published date.)

May 8-15   Preparation of papers for proceedings.

June 15   Target date for mailing of *Conference Proceedings*.

Non-IEEE Technical Societies

        American Institute of Aeronautics & Astronautics (AIAA) – Cary Spitzer

Association of Old Crows (AOC) – Erv Gangl

Their core aim is to develop courses and conferences to address the warfighter challenges in the area of Electronic Warfare. They want to integrate/educate/share information with their military, Government leaders and industry partners. Conferences may be classified and unclassified or have limited access. They try to hold these all over the United States during the course of the year.

The Dayton Chapter of the AOC is called the Kittyhawk Chapter. They hold monthly luncheons with guest speakers on current topics of interest as well as have yearly local AOC awards where the winners get submitted for consideration of the AOC national awards. They have a golf outing for sponsorship of scholarships. In the past they have joined with the Air Force Research Laboratory Sensors Directorate in Dayton to hold an Electronics Warfare Conference which this year has been cancelled due to austerity measures. Instead they will have a booth at the Dayton AFCEA Conference in October. Their latest interest are focused on UAVs, ISR and Cyber.

        French Institute of Navigation (SIN) – Jim Huddle

        German Institute of Navigation (DGON) – Jim Huddle

        Institute of Navigation (ION) – Jim Huddle

INCOSE – George Friedman

Royal Aeronautical Society – Jim Leonard

NDIA Systems Engineering Division – Bob Rassa

Armed Forces Communications & Electronic Assoc. (AFCEA) – Marina Ruggieri

Among the many initiatives that AFCEA_Rome Charter is undertaking under the Presidency of Pietro Finocchio and the Vice Presidency of Claudio Buccini, as Industry Rep, and myself, as Academia and Governmental Institutions Rep, two are particularly interesting to AESS:

1. The M.Sc students of Masterspace-University of Roma "Tor Vergata", have completed the construction and integration of the experimental payload in the baloon co-sponsored by AESS, under the 2010 student projects, and AFCEA_Rome Chapter, under its educational activities. Launch opportunities are being selected by the new coordinator of the M.Sc, Dr. Ernestina Cianca (Senior Researcher at the University of Roma "Tor Vergata").

2. AFCEA_Rome Chapter has created a working group to develop a M.Sc on "System Engineering". Due to the existing MoU between AFCEA_Rome Chapter and AESS/System Council about the System Engineering matter, it is strongly advised that AESS nominate a rep who can participate to the AFCEA working group.