Liaisons and Representatives Report

AESS Board of Governors Meeting

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Orlando, FL

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Member, BoG, AESS

Objectives

- To examine the various IEEE and External councils, technical communities, societies, and other organizations that AESS has been providing financial and/or resource support.

- To investigate and develop a pro-active report that seeks to:
  - Understand the various commitments of AESS towards each of the external Councils/Activities that we are and have been actively engaged
  - Evaluate the relationship that we share with each Council/Activity and understand how we can maximize the benefit gained from the relationship moving forward
  - Ensure that we are not missing other opportunities and other groups – both internal and external to IEEE – that we might/should consider in the future

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What Do Liaisons Do for the Society?

- Provide means for interaction between academia, industry, government and the professionals in their region

- Provide forums for discussing means for enhancing the quality of life globally using AESS technological areas, and educating the professionals accordingly

- Encourage involvement of industries in AESS events for mutual benefit, including the practice of systems engineering and systems of systems approach

- Help the BoG in achieving AESS membership growth, and chapter growth in their region

Initiatives

- Develop a proactive report for the BoG that meets the objectives of this task.

- Email sent out to each external organization liaison and representative asking for a summary of activities and information relative to the involvement of AESS.
  - Responses are requested by June 1st
  - 22 requests made via email
  - 6 responses with answers; 4 additional correspondences

- Produce pro-active recommendations for the BoG based on relationship of council/activity to each component of the AESS Strategic Plan:
  - Technical Focus Areas
  - AESS Priorities
  - Active collaboration

- Identify additional Councils/Activities that AESS should consider in the future
  - IEEE IoT Initiative

Approach

- Purpose of AESS engagement
  - Technical
  - Publications
  - Member development/exposure
- Active/Passive involvement and activities
  - Current
  - Future
- How long has AESS been involved?
  - How did we become associated?
- Impact on membership
  - Professionals
  - Students
  - Academia
  - Industry
- Financial/Resource investment/ ROI
  - What is our commitment? (financial & time)
  - Expectations (resources, outcomes)

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Highlights (from Feedback so far)

- Conferences as external organizations?
  - Different financial model from other external liaisons of AESS
  - Established technical and financial sponsorships and co-sponsorships
  - Our relationships here are pretty well established
  - Apples vs. oranges?
- IEEE USA Committee on Energy Policy
- Women In Engineering (WIE)
- IET
- Individual liaison's time is not an impact on the individual, in that his/her interests result in that time spent anyway

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Actions

- Continue to gather data and information via survey
  - Due date for responses is June 1, 2016
  - Hope to have a draft report on the study by October for BoG review and comment
  - Possible magazine article to be developed for early 2017
- Discuss AESS's possible role as Participating Member in the IEEE Internet of Things Initiative
  - Approximate $6824/year for 2,15% share
  - Both parameters go down with increased Participating Memberships

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Motions

- Possible motion if we want to consider engagement in IEEE IoT Initiative

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Back Up Slides

Current Liaison and Representative Engagement

IEEE Organizational Units

- **Nanotechnology Council (Meyyappen, Lee)**
- **Sensors Council (Lo Monte, Teng)**
- **Systems Council (Downing, Lyons)**
- **Biometrics Council (TBD)**
- **IEEE USA – Various Committees**
  - Energy Policy, Entrepreneurial and Innovation Policy, Intellectual Property, Communication Policy, PACE, R&D Policy, Transportation and Aerospace
- **Women in Engineering (Kramer)**
- **Journal of Lightwave Technology (Cardinale, Rice)**
- **Society on Social Implications of Technology (SSIT) (Cardinale)**
- **Transportation Electrification Community (Walsh)**

- **IEEE Standards Association (Socci)**
- **TAB Committees**
  - N&A, Periodicals, Awards & Recognition, Strategic Planning

Non-IEEE Technical Societies

- **American Institute of Aeronautics & Astronautics (AIAA) (Rassa)**
- **Association of Old Crows (Gangl)**
- **German Institute of Navigation (DGON) (Rohling, Trommer)**
- **IET (Griffiths)**
- **International Council on Systems Engineering (INCOSE)(Walsh)**
- **NDIA Systems Engineering Division (Rassa)**
- **Armed Forces Communications & Electronic Association (AFCEA) (Ruggieri)**

Attendees

Attendees: Society/Council/OU Representatives

- Jose Ayala - Council on Electronic Design Automation
- Rich Baseil - Signal Processing Society
- Dennis Brophy - IEEE Standards Association
- Greg Byrd - Computer Society
- Michael Condry - Technology and Engineering Management Society
- Mahmoud Daneshmand – Computer Society
- Adam Drobot - Communications Society
- Javier Gozalvez - Vehicular Technology Society
- Philip Hall - Society for Social Implications of Technology
- Steve Holt – Systems Council
- Sam Qing-Shan Jia – Control Systems Society
- Mike Kelly – Power Electronics and Solid State Circuits Societies
- Roberto Minerva – IoT Initiative

- Lorenzo Lo Monte – Aerospace & Electronic Systems Society
- Pat Ryan – Power and Energy Society
- Richard Snyder – Microwave Theory and Techniques Society
- Emily Sopensky – Council on RFID
- Lee Stogner - Consumer Electronics Society
- Patrick Thompson – Components, Packaging and Manufacturing Technology Society
- John Vig - Sensors Council
- Mike Violette – Electromagnetic Society
- Jeff Voas - Reliability Society
- Bin Zhao - Electron Devices Society
- Mengchu Zhou - Robotics and Automation Society
- Doug Zuckerman - Communications Society

Attendees: IEEE Staff

- Faith Agnew - Technical Activities
- Susan Brooks – Technical Activities, Communications Society
- Sri Chandra – Standards Association
- Kevin Dresely – Technical Activities
- Kathy Grise – Technical Activities, Future Directions
- Margi Jannucci – Technical Activities
- Brian Kirk – Computer Society
- Alpesh Shah – Standards Association
- Harold Tepper – Technical Activities, Future Directions
- Bill Tonti – Technical Activities, Future Directions

Agreed-Upon Modifications to ComSoc Proposal

Governance Structure

IoT Activities Board

- Board members appointed by Society/Council Presidents with mutual concurrence
- Two (2) year terms starting with CY 2017, with up to one renewal
- Members must meet attendance and participation criteria to remain in good standing
- One vote per Member, minimum Quorum of five (5) members

9 Members	Position	Duration	Status
1 Communications Society	Chair	Permanent	L Sponsor
2 Computer Society	Member	Permanent	M Sponsor
3 Sensor Council	Member	Permanent	M Sponsor
4 Consumer Society	Member	Permanent	M Sponsor
5 Signal Processing Society	Member	Permanent	M Sponsor
6 Microwave Theory and Techniques Society	Member	Permanent	M Sponsor
7 Participating Society or Council	Member	Rotating	P Sponsor
8 Participating Society or Council	Member	Rotating	P Sponsor
9 Participating Society or Council	Member	Rotating	P Sponsor

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Expressed Level of Participation

- **Permanent Chair (1)**
  - Communications Society
- **Permanent Members (5)**
  - Computer Society
  - Consumer Electronics Society
  - Microwave Theory & Techniques
  - Sensors Council
  - Signal Processing Society
- **Participating Members (14)**
  - Components, Packaging, and Manufacturing Technology Society
  - Control Systems Society
  - Council on Electronic Automation Design
  - Council on RFID
  - Electromagnetic Compatibility Society
  - Electron Devices Society
  - Industrial Electronics Society
  - Power and Energy Society
  - Reliability Society
  - Robotics and Automation Society
  - Society for Social Implications of Technology
  - Solid State Circuits Society
  - Technology and Engineering Management Society
  - Vehicular Technology Society
  - Participating Members (13)
- **TBD (3)**
  - Aerospace and Electronic Systems Society
  - Power Electronics Society
  - Systems Council

The above are not binding commitments as some society/council representatives stated that they had to discuss with and secure approval from their leadership

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Financial Structure and Assumptions

Sponsors	Share	Obligations	Return
Communications Society	20%	20% of Investments Provide oversight, staffing, and infrastructure	20% of Surplus
Computer Society	10%	10% of Investments	10% of Surplus
Sensors Council	10%	10% of Investments	10% of Surplus
Consumer electronics Society	10%	10% of Investments	10% of Surplus
Signal Processing Society	10%	10% of Investments	10% of Surplus
Microwave Theory and Techniques Society	10%	10% of Investments	10% of Surplus
Other Participants	XX% = 30%/(Number of Participants)	XX% of Investments	XX% of Surplus

Assuming 14 "Participating" Societies/Councils, each would hold a 2.15% share

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Financial Structure and Assumptions

- The Communications Society will provide the administrative resources and infrastructure for post transition activities.
  - This includes a full time dedicated professional manager
    - Half the cost will be borne directly by ComSoc
- If we are successful in growing the IoT Community and activities and it becomes necessary to add staff, that staff would have a home in ComSoc.
  - ComSoc would <u>not</u> be obligated to cover half the cost of that staff
  - The budget for such staff would be agreed upon by the IoT Activities Board and the Presidents of the sponsoring and participating societies

Proposed Society Investment

- Total Baseline Community Investment - $300K/yr.

Sponsors	Share	Investment Commitment
Communications Society	20%	$60K/yr.
Computer Society	10%	$30K/yr.
Sensors Council	10%	$30K/yr.
Consumer Electronics Society	10%	$30K/yr.
Signal Processing Society	10%	$30K/yr.
Microwave Theory and Techniques Society	10%	$30K/yr.
Other Participants	XX% = 30%/(Number of Participants)	$90K/yr.
Total	**100%**	**$300K/yr.**

- Each individual society/council makes a 3 year commitment
- Assuming 14 "Participating" Societies/Councils, each would make a $6,428/yr. investment

Additional Specifications

- Commitment from Permanent Chair and Members of Activities Board to full transparency
  - All societies/councils have an observer position
  - All voices will be heard
  - Individual societies and councils will manage their obligations
- Share of ownership will remain in place for a minimum of three years
  - Potential to revisit based on future environment
- Participating Societies will elect the three societies/councils who will serve on the Activities Board
- All assets including but not limited to the Web Portal, eNewsletter, WF-IoT Conference Series, and IoT Communities – IEEE Technical Community, LinkedIn, Twitter, Collabratec will be transitioned
  - The WF-IoT Conference Series could become part of the P&L if the financial co-sponsors decide to reopen the MoU before its expiration at the end of 2017
  - The IoT Journal is currently covered by an MoU and outside the purview of the IoT Activities Board.
    - When that MoU expires, it may be possible to revisit the issue
    - In the interim, we will strive for coordination between the IoT Community and the Journal.
- Effective January 1, 2017, the IoT Community will stand on its own financially

Action Items

Action Items

- Adam Drobot and ComSoc to form a team and develop a transition proposal/business plan to present to TAB FinCom, the TAB Strategic Planning Committee and the TAB Management Committee
  - Mini-Series scheduled for May 20-22, 2016 in San Jose, CA
  - The draft will be circulated to the current planning team two weeks (May 6) before the TAB Mini-Series for review and comment. The proposal will be provided to the TAB Mini-Series staff one week (May 13) before the meeting.
  - Computer Society, Sensors Council, Consumer Electronics Society, Signal Processing Society and Microwave Theory & Techniques Society to appoint representatives to assist Adam.
  - Current plan is to request an additional $200K investment from TAB for 2017 above and beyond the $300K baseline budget

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Action Items

- Harold Tepper to provide example proposals/business plans previously submitted to TAB by Transportation Electrification and Life Sciences Initiatives

- Margi Jannucci to provide an IEEE Business Plan Template

- All society/council representatives to secure approval from their leadership with regard to participation level, and share of ownership in the IoT Community effective January 1, 2017

  - All societies/councils/OUs to provide letters of commitment

- Need to solicit participation from societies/OUs that did not attend