

Systems Council 2009 Fall AdCom Meeting
Ft. Lauderdale, FL
October 2-3, 2009

Attendees: Clyde Chittister, Bob Rassa, Pilar Sobrevilla, Stephanie White, Shreekanth Mandayam, Theodora Saunders, Paolo Carbone, Bob Lyons, Vincenzo Piuri, Ian Hiskens, John Baras

Guests: Hal Flescher, Tom Habetler

Phone: Mark Montrose, Bill Semancik, Paul Croll

Introductions

Clyde introduced and welcomed Hal Flescher.

LA TAB Meeting comments and discussion – Hal Flescher

TAB Report

Hal discussed TAB issues:

1. Technology Navigator
2. Technically Cosponsored Conferences

Minutes – White

MOTION: Bob Rassa moved to accept the minutes from the March 2009 meeting as written. 2nd Theodora Saunders. Motion passed

A side discussion ensued regarding certification program. Discussion will continue later in the meeting.

Publications – Vincenzo Piuri

Publications Report

Vincenzo presented all aspects of the Systems Council Publications.

MOTION: Vincenzo moved that the page limit for the Journal be up to 10 pages without mandatory publication page charge, and with voluntary publication page charge of 150 US\$ per page or fraction; and up to 2 extra pages with mandatory publication page charge of 150 US\$ per additional page or fraction. 2nd John Baras. Motion passed unanimously.

MOTION: Vincenzo moved that the review process management for papers authored by EIC, AEs or guest editors be: Papers authored by the EIC, the AEs, and the Guest Editors for their own Special Issues which are submitted for consideration to ISJ are managed blindly to their authors by implementing a procedure which preserves the privacy of sensitive information.

Papers authored by the AEs are managed by the EIC as any other paper, but the whole review process is performed by the designated AE outside the ISJ web-based review system to ensure that any confidential information (name of the designated AE, name of reviewers, confidential reviewers' comments) are not accessible to the authors.

Papers authored by the EIC are assigned by the secretariat to an AE without disclosing his identity to the authors. The whole review process also for these papers is managed manually by the designated AE outside the web-based review system to preserve confidentiality. The review outcome is delivered by the designated AE to the secretariat for notification to authors to maintain confidentiality.

Papers authored by Guest Editors of a special issue and intended to be eventually included in their own special issue shall be submitted as regular papers in the web-based review system and the EIC be notified by the authors. These papers are managed by the EIC outside the portion of the ISJ web-based review system assigned to the special issue to ensure confidentiality. The Guest Editors are in fact allowed to see all information concerning the paper review process only for papers submitted in portion of the web-based review system dedicated to their own special issue, not the papers outside this portion. 2nd John Baras. Motion passed unanimously.

Discussion: This is to ensure a homogeneous review process.

There was much discussion regarding the SYStems Council Knowledge Electronic Environment (SYSC-KEE).

ACTION ITEM: Vincenzo Piuri – Share the SYSC-KEE idea with Bill Tonti, the Technology Navigator contact at IEEE. (AI-0116)

There was much discussion regarding the Compendium. IEEE has recommended the Knowledge Environment instead of Compendium because they don't think there is a sufficient market for the compendium.

Conferences – Bob Rassa

Bob discussed the Systems Conference.

Future schedule for the Systems Conference:

2010 – San Diego

2011 – Montreal

2012 – Vancouver

In San Diego, we are officially calling for Exhibits. Howard Savage is our Exhibits Chair.

ACTION ITEM: Bob Rassa - Connect Howard Savage and Theo Saunders, as Theo has 2 potential exhibitors. (AI-0117)

ACTION ITEM: Member reps – Send a note to each Society President asking them to post Systems Conference CFP their respective websites and add a link to Systems Conference. We will, in turn, post any of their systems oriented conferences on our web site. (AI-0118)

ACTION ITEM: Chris Dyer – Add a special section to the Systems Council website to advertise Systems oriented conferences of our member societies. (AI-0119)

Technical Operations – Theodora Saunders

Technical Operations Report

We currently have one Technical Committee – the one on certification. It is not active.

There was a lot of discussion on the Systems Engineering Effectiveness Study (broad survey and questions) done by NDIA. The focus of the discussion was for Systems Council to collaborate with AESS to update the study with NDIA.

Discussed collaboration with AESS on its new Workforce Technical Panel.

Discussed the 3 Distinguished Lectures for AESS and Systems Council collaboration.

ACTION ITEM: Theo Saunders/Bob Lyons – Work to make a joint Technical Panel with AESS Large Scale Systems Engineering Panel and get other member societies to participate. (AI-0120)

We discussed proposed collaborations with MTT, Oceanic Engineering, and the I&M Society.

ACTION ITEM: Theo Saunders - Identify the POC with the MTT and connect them with the DL chair of the Systems Council, Jeannine Sivy. (AI-0121)

Distinguished Lecture

Jeannine Sivy

ACTION ITEM: Jeannine Sivy - Make sure a statement is included in the DL write-up on the website that states that a DL must be a member of IEEE. (AI-0122)

ACTION ITEM: Mark Montrose – Discuss at the Product Safety AdCom meeting in Toronto, the idea of the ESOH workshop collaborating with the Product Safety conference. (AI-0123)

Stevens Institute of Technology Proposal

Art Pyster at Stevens Institute of Technology has requested that the Systems Council work with Stevens and others on a curriculum for a graduate degree in systems engineering. He is also developing a Systems Engineering body of knowledge and believes IEEE can bring additional knowledge and insight to the body of knowledge. He is looking for input from academic as well as industry. The proposal is that IEEE put forth 25-30 authors to work on this graduate curriculum. Art reserves the right to make the final decision on his author team.

MOTION: Bob Rassa moved that we participate in the Stevens Institute idea put forth by Art Pyster. 2nd Stephanie White. Motion passed unanimously.

ACTION ITEM: Member reps – Take the Stevens Institute of Technology proposal back to your societies and see if we can get authors. Stevens is looking for technical people to do this. (AI-0124)

Financial – Hiskens

We still require the contributions of societies to be financially viable.
2010 should come out better than forecast because the conference should do better than forecast.
We need to increase our revenue from conferences, workshops, and publications. We also need to remain focused on our collaboration opportunities with the member societies to show the benefits that societies get from the Systems Council.

Smart Grid & Healthcare Workshop Proposal

There was discussion regarding what kind of work societies are doing with smart grid, power grid, and security; and what role Systems Council should play in this.

ACTION ITEM: John Baras – There was a recent NSF workshop in Baltimore on the subject of smart grid. Get the report from NSF. (AI-0125)

There was a discussion on Healthcare and the huge issues that exist. Systems Council needs to bring together the societies that are working on this individually. The Systems Council has a Healthcare Committee.

MOTION: Theo Saunders moved that we establish a Large Scale Integration TC. 2nd Vincenzo. Motion passed unanimously.

ACTION ITEM: Bob Lyons - Ask Barry Greenberg to chair this new TC. (AI-0126)

Software and System Engineering Challenges for the Emerging Smart Grid Proposal

The development of interoperability and cyber security standards and best practices for the emerging smart grid is proceeding at a breathtaking pace. However, despite the standards developers' best efforts, there remain gaps in the software and system engineering foundations necessary to ensure that new smart grid functionality will be secure, safe, survivable, reliable, and resilient. Participants in this workshop will brainstorm and identify the research challenges in software and system engineering that need to be addressed for the full vision of the emerging smart grid's benefits to be realized. One output of this workshop will be a proposed set of research topics and strategies that will put us on the path toward solutions.

MOTION: Bob Rassa moved to accept the proposal on Systems and Software Engineering Challenges for the Emerging Smart Grid. 2nd Stephanie White. Motion passed unanimously.

Discussion: There may be seed money involved, but it does not come from the budget.

ACTION ITEM: Clyde Chittister/John Baras/Barry Greenberg - Get the Smart Grid workshop proposal to Barry Greenberg and let him do the planning. Invite participation in the SSEC workshop to all member societies. John Baras said he and Control Systems would like to be involved. Get SSEC workshop support from NSF (John) and DOE (Clyde). (AI-0127)

It was suggested that we get involved in the activities of the IEEE New Technologies Directions Committee. We would be financial or technical co-sponsor of the conference. (Smart Grid Workshop)

MOTION: Bob Rassa moved that we become a financial co-sponsor of the NTDC initiated conference on Smart Grid. 2nd Theo Saunders. Motion passed unanimously.

ACTION ITEM: Bob Rassa/Ian Hiskens – Lead the effort of involvement in the NTDC initiated conference on Smart Grid. (AI-0128)

We resumed discussion of Theo Saunder's Technical Operations presentation.

ACTION ITEM: Stephanie White/Clyde Chittister – Send an email to the society presidents, VP Tech Ops, and the member reps and Jim Barbara and see if anyone is interested in Environment, Safety, and Occupational Health (ESOH). (AI-0129)

ACTION ITEM: Bob Rassa/Theo Saunders – Bob, send an email to connect Theo with Al Brown and Joe Elm for the Systems Engineering Effectiveness Survey. Theo, follow up with Al Brown and Joe Elm regarding Systems Council participation. (AI-0130)

MOTION: Theo Saunders moved to establish a Standards Technical Committee in the IEEE Systems Council. 2nd John Baras. Motion passed unanimously.

Paul Croll agreed to chair the Standards Committee. We need to encourage our member societies to participate in the standards process.

MOTION: Theo Saunders moved to establish a Technical Committee called Systems Engineering Education. 2nd Bob Rassa. Motion passed unanimously.

John Baras will chair the new TC on Systems Engineering Education.

ACTION ITEM: John Baras – See if INCOSE will send a rep to the Systems Council meeting. (AI-0131)

ACTION ITEM: Member Reps – Identify a person who could participate in the Workforce TP. Look to our member societies first, and also we can look at NDIA and INCOSE for people to be on this TP. Send names to Theo. (AI-0132)

ACTION ITEM: Theo Saunders – Connect the MTT people with Vincenzo to republish selected Systems Council articles of interest to MTT members in the MTT Magazine. (AI-0133)

MOTION: Bob Rassa moved that we accept bullets 1 and 2 of the Oceanic Engineering proposal:

1. Need to develop an IEEE System Council common definition for "System of Systems" and explore how this field applies to all of the other participating societies. This definition should then be posted on our web site.
2. When Collaboration Opportunity Priority 1 is complete, then need to formulate an IEEE common set of "System of Systems" guidelines, methodologies, practices, standards, and tools that could be utilized by all of the other societies participating in the IEEE Systems Council.

2nd Theo Saunders. Motion passed unanimously.

ACTION ITEM: Theo Saunders – Connect Vincenzo and I&M POC for I&M Proposal #2: The Instrumentation and Measurement Magazine could publish an issue containing some good survey papers that cover the system level dimension of measurement systems and can trigger some new scientific activity and related papers. This topic would probably be perfect for a regular or almost-regular column of the magazine. (AI-0134)

ACTION ITEM: Paolo Carbone/Vincenzo Piuri – Co-organize a special session on joint interest topics (measurement systems/quality management systems/...) within I²MTC, the major IEEE IMS international conference. Come up with a plan with milestones. (AI-0135)

ACTION ITEM: Shreekanth Mandayam – Take the book idea to the I&M AdCom meeting and get input: Write an IEEE book on Measurement Systems, jointly edited/authored by experts in both fields (could be a multi-author multi-chapter book or a university-level course book with exercises and so on). (AI-0136)

ACTION ITEM: – Bob Rassa/Clyde Chittister/Theo Saunders – Update the Business Plan. (AI-0137)

Meeting recessed until tomorrow morning.
Day 2

Clyde called the meeting to order.

Nominations & Appointments [Nominations & Appointments Report](#)

Bob Rassa presented the proposed slate of officers for 2010-2011:

Vice-President, Technical Operations: Theodora Saunders
Vice-President, Publications: Vincenzo Piuri
Vice-President, Conferences: Bob Lyons
Vice-President, Member Services: Wai-Chi Fang

MOTION: John Baras moved that nominations be closed. 2nd Stephanie White. Motion passed unanimously.

MOTION: John Baras moved to accept the slate by acclamation. 2nd Stephanie White. Motion passed unanimously.

Bob presented the proposed appointments for 2010-2011:

Secretary: Stephanie White
Treasurer: Ian Hiskens
Journal EIC: Mo Jamshidi

Clyde accepted the recommendations and the AdCom concurs.

Clyde also appointed Bob Rassa to Past President and VP of Finance.

IEEE Systems Council Overview

MOTION: Ian Hiskens moved to make the new logo an official alternative. 2nd Stephanie White. Motion passed unanimously.

We can use this material to advertise the Council, start chapters, etc.

There was a long discussion about the relationship between Systems Council and INCOSE.

MOTION: Bob Rassa moved that we move forward with an accreditation activity in Systems Engineering and that we attempt cooperation with INCOSE as reasonable and appropriate. 2nd John Baras. Motion passed unanimously.

ACTION ITEM: Bob Rassa/Shreekanth Mandayam – Begin the effort for the accreditation activity in Systems Engineering. (AI-0138)

Vincenzo had to leave early, so brought forth 2 motions.

MOTION: Vincenzo Piuri moved that we make the Associate Editor's Term as follows:

- The term of service for Associate Editors is two years, renewable once.
- Eligibility is restored after 2 years.
- About one third of the board members are replaced each year in order to retain continuity.

2nd Bob Lyons. Motion passed unanimously.

ACTION ITEM: Vincenzo Piuri – Give Mo Jamshidi John Baras name and John can help find some AE's from industry. (AI-0139)

ACTION ITEM: Vincenzo Piuri – Check on the expenditures for Mo and make sure they do not exceed the budget. (AI-0140)

MOTION: Vincenzo Piuri moved that we made the Advisory Board Member's Term as follows:

- The term of service for Advisory Board Member is four years, not immediately renewable.
- Eligibility is restored after 2 years.
- About one third of the board members are replaced each year in order to retain continuity.

2nd Bob Lyons. Motion passed unanimously.

There was discussion about the role of the Advisory Board and the content of the Journal.

ACTION ITEM: Clyde Chittister/Vincenzo Piuri - Put this topic of Journal content on the agenda for the next meeting and Vin will lead the discussion. (AI-0141)

Vincenzo reported on the Journal Review that occurred in June.

There was discussion regarding the succession plans for the EIC. There was recognition of Mo Jamshidi and the fact that he brought a Journal up from nothing.

We started getting the increase in submissions when Vincenzo became VP of Publications and started doing advertising. (This needs to be put in the report.)

ACTION ITEM: Vincenzo Piuri – Create some slides on Publications that societies could take back to their societies. (AI-0142)

It was suggested that Ian Hiskens become a Distinguished Lecturer.

John Baras discussed adding a Tutorial on Systems Engineering at the CSS conference and a workshop at the end of the conference. CFP will be by March, 2010. Systems Council will publish this CSS conference on the Systems Council website.

John Baras agreed to be on the Technical Program Committee of the Systems Conference.

John Baras discussed the Control Systems Society organizing a year on “Formal Models and Methods for Systems Engineering” at the Institute for Mathematics and its Applications of the University of Minnesota. They would like this to be a contribution of the IEEE CSS to the Systems Council activities. <http://www.ima.umn.edu/>

MOTION: Bob Rassa moved to establish a Technical Committee on Systems Engineering Tools. 2nd Theo. Motion passed unanimously.

Discussion: John Baras will be chair. It was mentioned that a practitioner was needed on the committee. John outlined his course of action. John would like 30 minutes at the next meeting.

ACTION ITEM: Clyde Chittister/John Baras – Give John Baras 30 minutes on the next meeting agenda to discuss the Systems Engineering Tools TC. (AI-0143)

Idea: John Baras is developing an executive course on systems engineering. He would like to involve the Systems Council. How can revenue be generated for these courses?

Idea: We need to get to industry when they have their meetings regarding Systems Engineering.

ACTION ITEM: Bob Rassa – Invite John Baras to the next NDIA meeting. (AI-0144)

There was discussion on the general health of the council. We need to have IEEE behind us to get the word out that Systems Engineering is vital.

Fellows Nominations

Nominations are due by March 1. Submit on the IEEE web site. A Fellow nomination can be for anyone, even outside IEEE. Vincenzo is the Fellow ID Chair, Bob Rassa is the Fellow Evaluation Chair.

ACTION ITEM: Member Reps and Officers – Send names of prospective Fellows to Vincenzo Piuri. (AI-0145)

New Business

Closing comments: Tom Habetler and Hal Flescher both said they are extremely happy with what they have seen at this meeting. We are moving in the right direction.

Next AdCom meeting: Hyatt Regency Mission Bay, San Diego, April 8-9. (Afternoon of the 8th, all day on the 9th)
The Systems Conference will be April 5-8.

Meeting adjourned.

Respectfully submitted,

Judy Scharmann