



E-Newsletter

January 2016

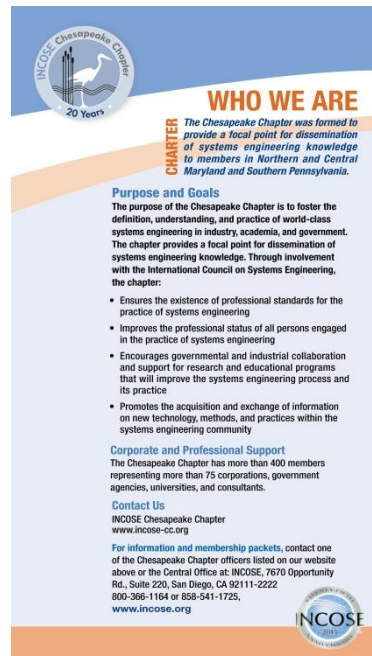
[Back Issues](#)

President's POV - January 2016



Ellie Gianni, ESEP

Welcome back to a New Year! I hope everyone had a restful and enjoyable holiday season. In recapping this past year's events, we have a lot to be thankful for. We need to thank our sponsors, especially APL who continues to provide us with a place to meet on a monthly basis. We are also very grateful for the support that APL provided us with the design and production of the Chapter posters and our photo backdrop (seen in photos contained within this article). These posters and the back-drop will help advertise our Chapter throughout our area.



Chesapeake Chapter Banners designed by JHU APL graphics artists.

We need to thank our numerous volunteers who continue to expend thousands of hours each year to help us have tutorials, workshops and lecturers that are relevant and timely. Finally, we need to thank our Board of Directors who responsibly navigate

In Vol. 7 Issue 1

- [President's POV](#)
- [2016 Chapter Events](#)
- [Systems Engineering DC 2016 \(SEDC 2016\)](#)
- [Board of Directors](#)
- [Upcoming Events](#)

This is the monthly newsletter for INCOSE Chesapeake, a local chapter of INCOSE International. We are a not-for-profit organization dedicated to providing a forum for professionals practicing the art and science of Systems Engineering in the Northern & Central Maryland & Southern Pennsylvania area.

Join
INCOSE
Today

<http://www.incose.org/about/Membership/Join>

The Chesapeake Chapter is always looking for volunteers to speak at our upcoming meetings! Please contact our Programs Director at programs@incose-cc.org if you would like the opportunity to speak or can recommend someone.

critical tasks associated with the management of chapter activities.

We held our Holiday Party and Awards Ceremony on December 9 and it was a great success. A total of 56 members and their guests attended. Many individuals and corporate sponsors were recognized and received awards. Please congratulate our members and students who were recognized for their accomplishments.

Outstanding Medal Award Recipients

- Donald Gantzer, Chairman of the Baltimore and Anne Arundel High school Science Fair support
- David Alldredge, CSEP, for faithful service in maintaining the chapter's treasury
- Charlie Welch for provisioning the INCOSE Chesapeake Chapter logo shirts for individuals attending the International Symposium
- Gundars Osvalds, ESEP, for intensive analysis of membership posture and records activity
- Kent de Jong, CSEP, for emergency management of SEP and Holiday Receptions while performing as treasurer
- Charles Struchen, CSEP, for judging science fairs
- Susan Plano-Faber for supporting the first DODAF System Architect Class and also judging the Anne Arundel High School Science Fair
- John Boccio, ESEP, for his support of Corporate Outreach and liaison activities
- David Fadeley, ESEP, for making INCOSE history by chairing and leading the first local ESEP Summit
- Randi Williams, UMBC Scholarship Recipient
- Dr. John Snoderly, Acting INCOSE Foundation Director and Past INCOSE International President, receiving the chapter \$1000 donation in the name of Bill Ewald.



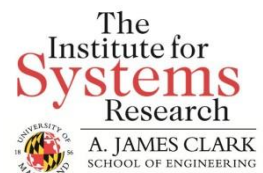
Randi Williams, University of Maryland Baltimore County (UMBC) receives scholarship award from the Chesapeake Chapter and Chairman of the Scholarship Committee, Bob Levin.

Corporate Sponsors Recognized

- Johns Hopkins University (JHU) Applied Physics Lab (APL), Dr. Ron Luman. APL is the chapter's longest standing sponsor and is a close partner of the chapter. We hold our monthly meetings at JHU APL facilities and their leadership is essential



The Chesapeake Chapter of INCOSE is proud to recognize the following organizations for sponsoring our endeavors to expanding the understanding and appreciation of Systems Engineering in the local area:



to the chapter's continued success.

- Jovian Concepts, Dr. Richard Scheper. Jovian has partnered with the chapter on a number of occasions and, in particular, hosted at their facility in Columbia, MD the WISE Social, which was a resounding success.
- Praxis, Eve Mobley. Praxis provided funding for the Lego Kits used in the Girl Scout First Lego League Initiative. Members of the WISE Team acted as mentors to the Girl Scouts of Central Maryland for this event.
- ClearEdge IT Solutions, Christine Puglisi. Vigorous supporter of Women in Systems Engineering (WISE) through sponsorship and participation. President Christy Puglisi participated on the Women Entrepreneur Panel that WISE held earlier in the year. They have generously donated funds to support various events, awards and prizes.



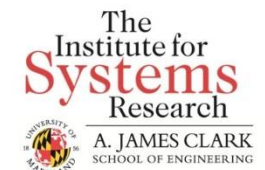
Dr. Ron Luman of Johns Hopkins University Applied Physics Lab accepting the Award for Sponsorship on behalf of the University from President George Anderson, ESEP.

Jointly Sponsored IEEE INCOSE Systems Engineering and Software Engineering Workshop



Mike Pafford coordinated, planned and led this jointly sponsored IEEE INCOSE SE SWE event.

Last month, on December 19, 2015, we also co-sponsored an Agile Process workshop with the Washington Metropolitan Area IEEE at the Johns Hopkins University Applied Physics Laboratory. The INCOSE Object-Oriented Systems Engineering Method (OOSEM) Working Group also participated in the workshop which included lectures and labs on Agile Development Lifecycle Management (ADLM) collaboration. The workshop was facilitated by our President Elect Mike Pafford. Mike did an outstanding job during this daylong event, which was well attended by over 20 Systems and Software Engineers, as well as Project and Program Managers. Planning is underway to continue this kind of Agile project collaboration by offering more of these kinds of workshops in 2016. Photos of the workshop are included below.





(Left to Right) Debi Siering (IEEE and OOSOM), and Ellie Gianni, George Anderson and Bob Berkovits (all INCOSE and IEEE), at the workshop.



Dr. Rico during an animated discussion at the workshop. He will be speaking at our next monthly lecture in January.



Students Attending Monthly Dinner Meetings and Lectures Receive Free Meals

Thanks to a generous donation from our Corporate Sponsor, 2Hb, college students attending our INCOSE Chesapeake Chapter monthly dinner meetings and lectures at APL will receive dinner free of charge. 2HB Incorporated was founded in 1994, incorporated in 1995, and provides core competencies including Java Programming, Software Engineering, Web Based Development, and Telecommunications Systems & Services. 2HB has since built on these offerings to include services in Systems Engineering, Management Consulting, and Information Security. Visit their web site at: <http://2hb.com/cms/>



INCOSE Chesapeake Chapter Calendar of Events 2016



Gundars Osvalds

Gundars Osvalds, ESEP,
Programs Director

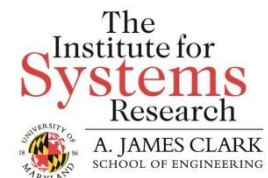
We have a great combination of talent within the chapter that have and will present their expertise to us. You are welcome to propose a presentation seminar yourself or if there are others in industry or government that we should invite please provide your inputs. As we look forward to 2016, we have many activities planned. I am including the calendar of activities currently scheduled and a list of activities under consideration. As presentations and training dates are finalized, I will update our calendar.

Scheduled Chapter meetings and Monthly Dinner Lectures (JHU APL Building 1 Cafeteria and Parsons Auditorium)

- Every third Wednesday of each month excluding December 6. Start time @ 6:00 PM for Dinner Meeting & 7:00 PM for Lecture.
- Wednesday January 20 - 6:00 PM Dinner Meeting & 7:00 PM Lecture. Dr. David Rico, PMP, CSEP, will address a new model for managing high-risk, time-sensitive and innovation driven development projects with demanding customers and fast-changing market conditions. Dr. Rico will establish the context, provide a definition, and describe the value-system for agile project management. He will describe a step-by-step methodology, and illustrate the mechanisms for scaling the agile project management model up to large-scale, distributed projects. He will illustrate basic, work planning, cost estimating, business value, earned value management, and advanced metrics for agile methods as well as some intriguing, high-profile agile project management case studies.
- Wednesday January 20 @ 8:00 PM - Installation of New Chapter Officers for 2016 (Immediately following lecture)
- Wednesday February 17 - 6:00 PM Dinner Meeting & 7:00 PM Lecture. Mark 'Indy' Kochte, JHU APL. New Horizons –The Adventure to Pluto. Pluto has long been considered an oddball planet since its discovery, but over the decades we have learned much about what it is and what it isn't. Now, after a 9.5 year voyage that covered over 3 billion miles, the New Horizons spacecraft, the first manmade object from Earth to visit this little planet, has shown us that Pluto is SO unique and unlike anything we might have imagined since it's discovery 70-odd years ago. What new wonders await discovery? Join Mission Operations team member Mark 'Indy' Kochte on a journey of wonder to a place in our own solar system that the awesome Hubble Space Telescope can only barely resolve.
- Wednesday March 16 - 6:00 PM Dinner Meeting & 7:00 PM Lecture. Mr. Rick Dye, Administrator for the State of MD Chesapeake Highway Advisory for Routing Traffic (CHART)
- Wednesday 20 April 20 - 6:00 PM Dinner Meeting & 7:00 PM Lecture
- Wednesday May 18 - 6:00 PM Dinner Meeting & 7:00 PM Lecture
- Wednesday June 15 - 6:00 PM Dinner Meeting & 7:00 PM Lecture
- Wednesday July 27 - 6:00 PM Dinner Meeting & 7:00 PM Lecture; moved to 4th



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Wednesday due to IS 2016 conflict

- Wednesday August 17 - 6:00 PM Dinner Meeting & 7:00 PM Lecture
- Wednesday September 21- 6:00 PM Dinner Meeting & 7:00 PM Lecture
- Wednesday October 19 - 6:00 PM Dinner Meeting & 7:00 PM Lecture
- Wednesday November 16 - 6:00 PM Dinner Meeting & 7:00 PM Lecture

Scheduled Special Events (Engineers Club, Garrett Jacobs Mansion Baltimore, MD)

- August 24 – 7th Annual Systems Engineering Professionals (SEP) Gala
- December 7 – INCOSE Chesapeake Chapter Holiday Party and Awards Ceremony

Topic Areas under Consideration to Potentially Be Scheduled:

- Agile Contracts, Creating and Managing Successful Projects with Scrum
- Agile Methods – Training length depends on subjects covered
- SAFe - Scaled Agile Framework Training (2 days)
- Agile performance metrics, models, and measures for managing programs
- Vendor presents tools for modeling architecture description: No Magic-Magic Draw, Sparx - Enterprise Architect, IBM-Rhapsody, PTC-Artisan Studio
- Centers for Medicare & Medicaid Services
- Drone Registration Program
- Unmanned Air Vehicles “Drones”
- Unmanned Air Vehicle Design - Presentation or tutorial (1-3 days)
- IBM Systems Architect using DoDAF (3 days)
- Advanced Systems Engineering
- Underwater Search Systems
- Systems-Theoretic Model of Accidents (STAMP)

Tutorials and Workshops (JHU APL) being considered and in planning stages

- **Role of SE on Agile programs developing software intensive systems** - Tutorial
- **Handbook Tutorial for INCOSE SE Handbook Version 4** by one of the editors, Dr. David Walden, ESEP. Well suited for individuals studying for SEP Exam.
- **DODAF 2.0 Modeling with IBM Rational System Architect V.11.4.** The DoDAF 2.0 Modeling with IBM Rational System Architect V11.4 course shows how IBM Rational System Architect supports the development and analysis of DoDAF 2.0 described models. The course focuses on tasks such as keeping models consistent, integrating information between views, performing gap analysis, assessing the impact of change, and generating standard DoDAF reports. This course consists of both lecture and hands-on exercises.
- **Tutorial** - Four Areas of Special Importance to the Systems Engineer. Dr. Howard Eisner. Presentation: Amidst the various aspects of systems engineering dealt with over many years by the presenter, four areas stand out as being of special importance: (1) The Systems Approach, (2) System Architecting and Design, (3) Computing Detection and False Alarm Probabilities, and (4) a “Top Ten” List for Systems Integration. The systems approach is made specific with a discussion of ten subordinate areas. System architecting is examined in some detail, resulting in a definitive procedure that explicitly considers an analysis of alternatives. Detection and false alarm probability calculations are demonstrated, including



This Newsletter is to serve our members and is open to all for contributions. Do you have an interesting idea for an article? A review of a new book related to engineering? [Let us know.](#) We'd love to hear about it. It may wind up in a future issue of our Newsletter.

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tradeoffs between the five key variables. Finally, the complex matter of systems integration is explored.

- **Agile Process Workshops** - Systems Engineers, Software Engineers, and Project Managers. The Purpose of these Joint INCOSE/IEEE Workshops will be to continue the exchange of knowledge between engineers and managers collaborating in current and modern (e.g., Agile, etc.) Application Lifecycle Management (ALM) and Application Development Lifecycle Management (ADLM) projects. The Goal of the workshops will be to arm SEs, SWEs, and Managers with actionable reference knowledge that all groups can immediately use to enhance their productivity in agile projects.

ESEP Summit (JHU APL Building 1, ESEPs Only)

- Saturday January 23 - 0830-1100
- Saturday April 23 - 0830-1100
- Saturday June 25 - 0830-1100
- Saturday September 24 - 0830-1100

Committee Meetings (APL Building 1 Cafeteria)

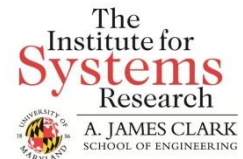
- Finance Committee Monthly Meeting. Next Meeting is on Wednesday, January 27, JHU APL Building 1 Cafeteria, 5:30 PM – 6:30 PM. Chair: Kent de Jong Open to all Chapter members

Board of Directors (BOD) Meetings (JHU APL Building 1) 5:30-7:30 – Open to Chapter Members

- Wednesday January 13, 2016
- Wednesday February 10, 2016
- Wednesday March 9, 2016
- Wednesday April 13, 2016
- Wednesday May 11, 2016
- Wednesday June 8, 2016
- Wednesday July 13, 2016
- Wednesday August 10, 2016
- Wednesday September 14, 2016
- Wednesday October 12, 2016
- Wednesday November 9, 2016
- Wednesday December 14, 2016

Conferences

- INCOSE International Workshop- IW 2016 - Torrance, CA USA ; Date: Jan30, 2016 - Feb 2, 2016
<http://www.incose.org/newsevents/currentevents/2016/01/30/default-calendar/incose-iw-2016---torrance-ca-usa>
- SEDC 2016 Conference (Westfield's Marriott, Chantilly, VA) Main Conference Sessions; Date: 31 March, 1 April 2016; and Tutorial presentations (GMU); Date: 2 April 2016
<http://www.sedconference.org>



- International Symposium, INCOSE IS 2016, - Edinburgh, Scotland; Date: Jul 18, 2016 - Jul 21, 2016 <http://www.incose.org/symp2016/home>



Systems Engineering DC 2016 (SEDC 2016)

SEDC 2016 is a continuation of one of the largest U.S.-based systems engineering conferences and is ideal for systems engineers, project managers, and professionals interested in learning more about systems engineering. The 2016 conference will focus on Critical Infrastructure Protection and Recovery (CIPR) and how systems engineering supports the analysis, planning, and development of resilient systems.

The Conference will provide an opportunity for authors to communicate their knowledge and best practices as systems engineering practitioners involved in CIPR-related government, commercial, and academic areas. Papers, tutorials, and panel sessions will be peer reviewed, scored, and judged on a range of parameters, including usable information or insight into the systems engineering community, clarity of expression, effective communication of ideas, technical depth, and substantiation of concepts. Areas of interest include, but are not limited to: Affordability & Cost/Benefit Analysis, Agile Systems Engineering, assessment & risk management processes, cloud computing, cyber security methods, education & training, energy, environment, IT cyber security & safety, lessons learned and best practices, operations research, policy, project management, resilient systems, response and recovery, system of systems engineering and systems architecture.

The INCOSE Chesapeake Chapter is supporting this upcoming conference in conjunction with the INCOSE Washington Metropolitan Area Chapter. Keynotes, presentations, and panels for SEDC 2016 will be held Thursday, March 31, 2016 and Friday, April 1, 2016 at the Westfield's Marriott Washington Dulles location in Chantilly, VA. Conference tutorials will be conducted at the George Mason University (GMU) campus on Saturday, April 2, 2016. The conference will provide an opportunity for knowledge and best practice exchange among practitioners involved in CIPR-related government, commercial, research, and academic areas. Over 70 presentations, panels, and tutorials are planned. Attending INCOSE members can earn up to 20 Professional Development Unit (PDU) Credits; half of the yearly required amount to maintain Certification.

To register, go to: <http://www.sedcconference.org/register-for-sedc-2016/>

Cost By Ticket Type	Sales End	Price
Early - Full Registration	January 16, 2016	\$299
Early - Day 1 Registration	January 16, 2016	\$199
Early - Day 2 Registration	January 16, 2016	\$99
Early - Student Registration	January 16, 2016	\$99
Reception Only	March 31, 2016	\$59
Tutorials Only	April 2, 2016	\$49



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The Chesapeake Chapter of INCOSE is proud to recognize the following partner organizations and upcoming conferences that may be of interest to our membership.

Outgoing (2015) and Incoming (2016) Board of Directors

Thank You to the 2015 Board of Directors



(Left to Right): Mark Kaczmarek (Kaz) - Secretary, John Boccio -Corporate Outreach and Former President-Elect, George Anderson - President, EleanorAnn (Ellie) Gianni - President Elect, Kent de Jong - Treasurer, Patrick Williams - Communications Director, Erik DeVito - Past President and Acting Programs Director, and Gundars Osvalds - Membership Director.

Welcome to the New 2016 Board of Directors



(Left to Right): Mark Kaczmerak (Kaz) - Membership Director, Craig Tyler - Secretary, Kent de Jong - Treasurer, George Anderson - Past President, Gundars Osvalds - Programs Director, Mike Pafford - President Elect, Ellie Gianni - President, and Patrick Williams -Communications Director.



INCOSE
International
[Workshop](#) 2016 -
Torrance, CA USA
Jan30, 2016 - Feb 2,
2016

What people are saying
about Chesapeake
Chapter in 2015:

*"... What a wonderful,
innovative, and
impactful year for the
Chesapeake Chapter. I
hope you, your board,
and the entire chapter is
proud of what you have
accomplished..."*

David Long,
President, INCOSE

Upcoming Events and Announcements

- **January 13, 2016:** INCOSE Chesapeake Chapter Board of Directors Meeting ¹
- **January 20, 2016:** INCOSE Chesapeake Chapter Dinner Meeting ^{2,3} Agile Project Management for Large and Complex Programs, by Dr. David Rico.
- **January 30, 2016:** ESEP Summit ⁴
- **January 30, 2016 – February 2, 2016:** [INCOSE International Workshop - IW 2016 - Torrance, CA USA](#)
- **February 10, 2016:** INCOSE Chesapeake Chapter Board of Directors Meeting ¹
- **February 17, 2016:** INCOSE Chesapeake Chapter Dinner Meeting ^{2,3} New Horizons –The Adventure to Pluto, by Mark 'Indy' Kochte, JHU APL.
- **March 9, 2016:** INCOSE Chesapeake Chapter Board of Directors Meeting ¹
- **March 16, 2016:** INCOSE Chesapeake Chapter Dinner Meeting ^{2,3} Mr. Rick Dye, Administrator for the State of MD Chesapeake Highway Advisory for Routing Traffic (CHART)
- **31, 2016 – April 2, 2016:** SEDC 2016 Conference <http://www.sedconference.org/>

1 = Johns Hopkins University (JHU) Applied Physics Lab (APL) Building 1 Barton Conference Room 5:30 – 8:30 PM (Free)

2 = Dinner at JHU APL Building 1 Cafeteria (Last Room on the Left) 6:00 – 7:00 PM (\$25)

3 = Lecture at JHU APL Building 1 Parsons Auditorium 7:00 – 8:00 PM (Free)

4 = JHU APL Building 1 Barton Conference Room 08:00 – 11:00 AM (Free – ESEPs Only)

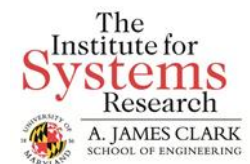


Interested in Jobs Networking?

Contact Mark Kaczmarek at

mkaczmarekengr@comcast.net

[Return to top](#)



Keep up with the latest news and events. Find out about our new Board of Directors. Explore our extensive library of previous lectures from our Monthly Dinner Meetings. Learn of the Benefits of Joining INCOSE. Check out Systems Engineering education in the local area. All this and more awaits you at our [INCOSE Chesapeake Chapter Website](#).

For any comments or suggestions about this newsletter please e-mail our [President, Ellie Gianni](#) or our [Communications Director, Pat Williams](#). We value your feedback.

Board of Director Officers, 2016

- President: Mrs. EleanoraAnn "Ellie" Gianni
- Past President: Mr. George Anderson
- President Elect: Mr. Michael Pafford
- Treasurer: Mr. Kent de Jong

- Secretary: Mr. Craig Tyler
- Communications: Mr. Pat Williams
- Programs: Mr. Gundars Osvalds
- Membership Committee: Mr. Mark Kaczmarek

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