



E-Newsletter

February 2016

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President's POV - February 2016



Ellie Gianni, ESEP

After suffering through a week of more than 2 feet of snow, it was a relief to fly to sunny Torrance, California for the annual INCOSE International Workshop (IW) 2016. I left Baltimore, Maryland at 4 am on Thursday January 28 with black ice and temperatures well below freezing. When I arrived in Los Angeles, the temperature was 70 degrees. Oh what a difference a few thousand miles makes!



Torrance, CA on day one of the IW 2016

I arrived early for the workshop to attend Chapter Leaders meetings covering training, membership and finance and governance on Friday. All of the global leadership attended including the Sector Leadership from the Americas. I wanted to attend all of the meetings but could only choose one, so I chose to attend the finance and governance meeting. The finance and governance meeting covered an array of topics from dues and membership fees to financial models for countries outside the United States to costs for the translation of documentation into local languages. We discussed how US laws for non-profit organizations at times conflict with laws in other countries. We discussed how to best help chapters that may be floundering and need assistance. We talked about the high cost of converting US dollars to other currency and more. INCOSE truly is an international organization with complexities associated with global reach. The teams brainstormed some ideas that will hopefully be transformed into a way forward. Outcomes will be discussed further at the International Symposium in Edinburgh Scotland in July 2016.

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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>

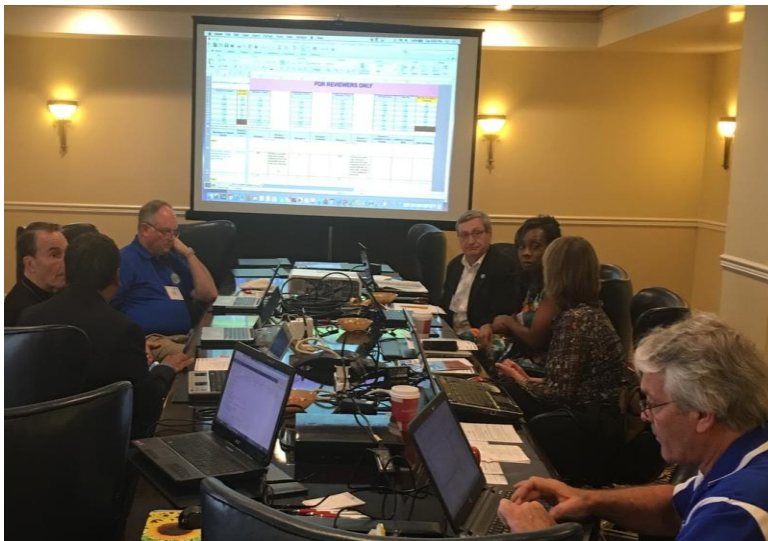
The Chesapeake Chapter is always looking for volunteers to speak at our upcoming meetings!

Please contact our Programs Director at programs@incose-cc.org if you would like the opportunity to speak or



Mark Walker of Chesapeake Chapter and Steve Dam of Washington Metropolitan Area (WMA) Chapter (Also new Americas Sector President)

Many of our chapter members and officers attended the workshop. We had over 15 members in attendance. Mike Pafford provided a workshop on Object Oriented Systems Engineering Method (OOSEM) and Mark Walker lead a workshop on Critical Infrastructure Protection (CIPR). Both events were very well attended, with standing room only. We hope to have a workshop later this year taught by Mike in late Summer. A CIPR workshop will also be offered later this year; the date is still to be determined.



Chapter Awards Committee members present at IW 2016. Representatives were from North Texas, Chesapeake, Washington Metropolitan Area, Los Angeles, and South Africa Chapters. The team scored and tallied circle award submissions.

can recommend someone.



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:

Booz | Allen | Hamilton



I have heard many of you ask, “why should I attend the International Workshop”? This was my first year attending and I learned so much. This was a “roll-up your sleeves” and “dig in” kind of collaborative conference where there were interactive discussions on many topics. I learned about how INCOSE works from the inside out. I sat on the Chapter Awards program; which is focused on Chapter Best Practices and rewarding the best chapters through the Circle Awards process. Chapters submitted evidence of accomplishments over the course of the past year and are awarded Platinum, Gold, Silver, Bronze, Honorable Mention and finally Most Outstanding Chapter (best chapter in the world). Last year, our Chesapeake Chapter won the Most Outstanding award. Chapters may only win this award once every 3 years. We are hoping for Platinum this year. Fingers crossed!!!

At IW2016 I met very talented and dedicated systems engineers from all over the world. Our Systems Engineering methodology was our common language. Best practices do not vary from country to country. I learned what makes a good paper submission as I helped to review papers proposed for publication at the International Symposium. I attended the eye-opening CIPR workshop and learned about threats to our power grid and more. I met students who were attending their first IW from the Technical Leadership Institute. Many were from the Washington DC metropolitan area. We said goodbye to David Long as he stepped down from his role as INCOSE President, and we welcomed our new President, Alan Harding. Finally, I met new members of our chapter so excited about being a part of the work we do.



David Long delivering his farewell speech

I encourage everyone to consider attending the next International Workshop in 2017 and the upcoming International Symposium in July 2016. You will be glad you did.

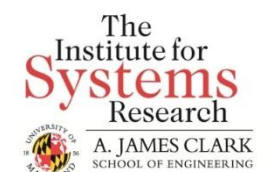
INCOSE Chesapeake Chapter Officer Installation

During the Chapter meeting on January 20, 2016 the installation of chapter officers was performed at an induction ceremony presided over by Mr. Steven Sutton, a Past President of the Chesapeake Chapter. WISE Officers were also inducted. The script for this ceremony included the following:

As the new officers and directors of the Chesapeake Chapter of INCOSE, you are responsible for managing the affairs of this organizations and providing the day-to-day operations and management of the chapter.

The goals of INCOSE are to:

- 1) Guide the dissemination of systems engineering knowledge
- 2) Promote collaboration in systems engineering education



- 3) Assure the establishment of professional standards for integrity in the practice of systems engineering
- 4) Improve the professional status of all persons engaged in the practice of systems engineering and
- 5) Encourage governmental and industry support for research and educational programs that will improve the systems engineering processes and practice.

You are the voice of this organization and as such you are responsible for providing leadership to those individuals and organizations that have aligned themselves with the purpose and the objectives of INCOSE by becoming members.

I now ask Officers and Directors in the presence of these, your fellow members:

Do you pledge yourselves to faithfully discharge these responsibilities as Board Members of the INCOSE Chesapeake Chapter? If so, then answer "I Will".

Will all members of INCOSE Chesapeake Chapter please stand?

You have heard the pledge of your new Board Members Elect. Your support and assistance is necessary if they are to fulfill their individual obligations. Therefore, I ask each of you to pledge your commitment to assist these and the continuing Board Members in their duties in support of the chapter. Will you assist them in helping them to undertake the activities of the Chapter? And will you encourage and advise them, while refraining from unjust criticism of their efforts?

If so then answer "I Will".

Welcome new Board Members!



**Installed INCOSE Chesapeake Chapter Board of Directors
and Officers for 2016**

Left to Right:

Communications: Mr. Patrick Williams, CSEP, communications@incose-cc.org
 Treasurer: Kent deJong, CSEP, treasurer@incose-cc.org
 Programs: Mr. Gundars Osvalds, ESEP, programs@incose-cc.org
 President: Ms. Ellie Gianni, ESEP, president@incose-cc.org
 Membership: Mr. Mark Kaczmarek, membership@incose-cc.org
 Past President: Mr. George Anderson, ESEP, past-president@incose-cc.org
 President Elect: Mr. Mike Pafford, president-elect@incose-cc.org
 Secretary: Mr. Craig Tyler, ESEP, secretary@incose-cc.org





Installed INCOSE Chesapeake Chapter Women in Systems Engineering (WISE) Board of Directors

Left to Right

Ms. Adura Adekunge, Secretary, WISE_Secretary@incose-cc.org
 Ms. Christie Best, President-Elect, WISE_President-Elect@incose-cc.org
 Ms. Myra Gross Parsons, ESEP, President, WISE_President@incose-cc.org
 Ms. Michelle Douglass-Butler, CSEP, Outreach Committee
 Chair, WISE_Outreach@incose-cc.org

Not Pictured:

Ms. Linda Pitelli, Treasurer, WISE_Treasurer@incose-cc.org
 Ms. Heather Johnson, Events Committee Chair, WISE_Events@incose-cc.org
 Ms. Vantresa Scott, Membership Committee Chair, WISE_Membership@incose-cc.org

INCOSE Chesapeake Chapter Programs Update



Gundars Osvalds

Gundars Osvalds, ESEP,
 Programs Director

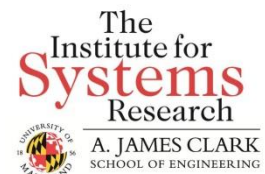
In January, we received a lecture on Agile Project Management from Dr. David Rico. More than 35 individuals attended the lecture with others watching on YouTube. If you missed this presentation you can view it on YouTube [here](#), or by going to YouTube and searching on "INCOSE Chesapeake".



Dr. Rico delivering lecture on Agile Project Management



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

The third Wednesday of each month excluding December. Start time @ 6:00 PM for Dinner Meeting & 7:00 PM for Lecture.

- [Register NOW for the upcoming Wednesday February 17 Dinner and Lecture](#) - 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 February 24 at 5:00 – 6:00 PM. WISE General Membership Meeting at SCITOR, 302 Sentinal Way, Annapolis Junction, MD 20701. Contact \[myragross@verizon.net\]\(mailto:myragross@verizon.net\) with questions.](#)
- Wednesday March 16 - 6:00 PM Dinner Meeting & 7:00 PM Lecture. Matt House PCT presenting an Overview of MBSE Integrity Modeler with DoDAF 2.02 Using UPDM 2.1 Tools.
- [March 2016 – Date TBD – WISE STEM Volunteer Event. No General Meeting.](#)
- Wednesday 20 April 20 - 6:00 PM Dinner Meeting & 7:00 PM Lecture TBD
- [Wednesday April 27, 2016 – 5:00 PM WISE and Wine Networking Event, Jovian Concepts, Annapolis Junction, MD \(No General Membership Meeting\)](#)
- Wednesday May 18, 2016 6:00 PM Dinner Meeting – 7:00 PM LECTURE Mr. Rick Dye, Administrator for the State of Maryland Coordinated Highways Action Response Team (CHART)
- Wednesday June 15 - 6:00 PM Dinner Meeting & 7:00 PM Lecture TBD
- Wednesday July 27 - 6:00 PM Dinner Meeting & 7:00 PM Lecture; moved to 4th Wednesday due to IS 2016 conflict TBD
- Wednesday August 17 - 6:00 PM Dinner Meeting & 7:00 PM Lecture TBD
- Wednesday September 21- 6:00 PM Dinner Meeting & 7:00 PM Lecture TBD
- Wednesday October 19 - 6:00 PM Dinner Meeting & 7:00 PM Lecture TBD
- Wednesday November 16 - 6:00 PM Dinner Meeting & 7:00 PM Lecture TBD

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



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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Standards Corner – The New Home for INCOSE Chesapeake Chapter Monthly Standards Updates!

New Model-Based Analysis, Architecture, Design, and Development Specification



**Mike Pafford,
President-Elect**

In December 2015 the International Organization for Standardization (ISO) released a new Publicly Available Specification (PAS), “ISO/PAS 19450:2015, Automation systems and integration -- Object-Process Methodology”. The Object-Process Methodology (OPM) was conceived and developed by Professor Dov Dori at the Technion—Israel Institute of Technology and at the Massachusetts Institute of Technology (MIT). It is a compact conceptual approach, language, and methodology for modelling and knowledge representation of automation systems. The application of OPM ranges from simple assemblies of elemental

components to complex, multidisciplinary, dynamic systems. OPM is suitable for implementation and support by tools using information and computer technology. The new ISO/PAS 19450:2015 specifies both the language and methodology aspects of OPM in order to establish a common basis for system architects, designers, and OPM-compliant tool developers to model all kinds of systems.

The Object-Process Methodology (OPM) represents a system model simultaneously in two different modalities: formal graphics via Object Process Diagrams (OPDs) and a corresponding set of sentences in a subset of English, Object Process Language (OPL). The elements in an OPD are Things – Objects and Processes – and Links that connect the Things to express relations among them. An OPM Object is a Thing that exists, or might exist, physically or informatically. Objects are Stateful – they may have States, such that at each point in time, the Object is at one of its States or in transition between States. An OPM Process is a Thing that transforms an Object by creating or consuming it, or by changing its State. The OPM OPL sentences can be generated automatically from OPD models using a free software tool called, “OPCAT”, downloadable from the MIT Enterprise Systems Modeling Laboratory (ESML) (<http://esml.iem.technion.ac.il/>).

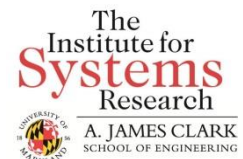
Other recent OPM references include:

- ISO/PAS 19450:2015 Preview site: <https://www.iso.org/obp/ui/#iso:std:62274:en>
- INCOSE Connect 16Dec15 Webinar 85 (OPM) site: <https://connect.incose.org/Library/Webinars/Pages/INCOSE-Webinars.aspx> (requires login)
- Recent ‘MBSE With OPM & SysML’ Book: <http://www.springer.com/us/book/9781493932948> and <http://www.amazon.com/Model-Based-Systems-Engineering-OPM-SysML/dp/1493932942>

Interested in Jobs & Networking?

Contact Mark Kaczmarek at

mkaczmarekengr@comcast.net



INCOSE's Critical Infrastructure Protection and Recovery (CIPR) Working Group (WG)

By L. Mark Walker, ESEP

Background/History. In January 2015, the Department of Homeland Security (DHS) InfraGard¹ electromagnetic pulse (EMP) Special Interest Group (SIG) chair, Chuck Manto, sought systems engineering expertise by contacting Mark Walker of the INCOSE. Mark introduced the InfraGard EMP SIG to several INCOSE WGs during the IW 2015. Mike deLamare (Infrastructure WG) and John Juhasz (Power and Energy System WG), recognized the significant importance this included and agreed to lead the new WG. Mike deLamare is the CIPR WG lead, with Mark and John as co-leads.

The CIPR WG was chartered and approved by INCOSE Tech committee as a WG at IS2015. Since then, the CIPR has expanded dramatically and currently has over 150 INCOSE members on its alias. The 1.5 days of CIPR meetings at the IW2016 resulted in almost 75 participants with many additional side discussions. This WG is now being considered to become an INCOSE Initiative since it is related to many other INCOSE WGs.

The critical infrastructure domains addressed by the CIPR WG include the following:

- Chemical and other industrial bases
- Communications
- Electrical & Energy production and distribution
- Emergency Services
- Financial Services
- Food and Agriculture
- Government Services & Facilities
- Healthcare and Public Health
- Information Technology
- Nuclear Reactors
- Materials and Waste
- Transportation
- Water storage, treatment and distribution
- Waste handling and disposal (water, refuse, hazardous)
- Society at large
- Others as the needed

CIPR WG Overview. The purpose for the CIPR WG is to provide a forum for the application, development and dissemination of systems engineering principles, practices and solutions relating to critical infrastructure protection and recovery against manmade and natural events causing physical infrastructure system disruption for periods of a month or more.

Certain manmade and natural events have a known potential to affect societies at a national, continental or even global scale. Such events can cause extreme harm well beyond those experienced from regional catastrophic events, especially when the effects will take longer than a month to recover. Three examples of events with the potential to cause critical infrastructure collapse include: (1) Solar Storms caused by Coronal Mass Ejections (CME); (2) EMP; and (3) Cyber Events (intentional and otherwise) and others. The CIPR WG will pursue its goals by addressing these three classes of events, and other classes of events with similar potential, when identified.

¹ Infraguard is a partnership between the FBI and the private sector. It is an association of persons who represent businesses, academic institutions, state and local law enforcement agencies, and other participants dedicated to sharing information and intelligence to prevent hostile acts against the U.S. <https://www.infragard.org/>



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.



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

Past Year Activities. This effort gained support from the engineering discipline established to organize and develop solutions for large-scale complex systems and issues. The 16 critical infrastructure domains form the largest complex system of systems in existence. INCOSE and its members possess processes and methods that are directly applicable to the EMP SIG mission.

Systems engineering support was requested at the IW2015. The CIPR WG leads met weekly with the EMP SIG chair where they defined needed products and identified opportunities for engagement. The CIPR was launched at IS2015. INCOSE CIPR leaders have all applied for membership in Infragard, and are planning to establish relationships with the local / regional InfraGard¹ chapters for ongoing activities. They are also working with the EMP Special Interest Group (EMP-SIG), and continue to develop strategy and added value products. CIPR leads meet on a weekly basis. The CIPR WG also organizes monthly CIPR WG international call-in meetings where planning and status are discussed.

CIPR leaders support InfraGard events with FBI/NIPU, including the following notable meetings:

- A tabletop exercise conducted by the New York InfraGard chapter. This exercise trained participating NY agencies regarding EMP, GMD and ICS-cyber threat awareness and incident recovery planning concepts.
- INCOSE CIPR leads attended the 3-day InfraGard annual Congress in September at Chantilly, VA.
- The CIPR leads attended the DuPont summit (December 2015) by participating in tabletop exercises and speaker panels.

InfraGard and the FBI/NIPU supported INCOSE events, including the following notable meetings:

- EnergyTech 2015 conference in Cleveland, OH (December 2015). This conference was led by INCOSE and co-sponsored by IEEE, NASA and InfraGard. A presentation track focused on critical infrastructure featured people from the EMP SIG, a former member of the EMP commission, DOE, a Maine legislator and others with extensive knowledge of the topic.
- INCOSE 2016 International Workshop, providing interactions with INCOSE members. During this event CIPR leaders coordinated among several other relevant working groups to gain support for expanded collaboration with InfraGard.

Future 2016 Activities

- Systems Engineering DC (SEDC2016) Conference in Chantilly, VA during March 31 – April 2, 2016. This conference theme is critical infrastructure protection and recovery.
- INCOSE International Symposium in Edinburgh, UK during July, 2016
- EnergyTech 2016 in Cleveland, OH during November 2016. Current plans include conducting a TTX with IG Cleveland chapter, including INCOSE, IEEE, FBI, Utility companies, other.
- DuPont Summit 2016 in Washington DC, December 2016
- Triple Threat Planning Workbook with publication expected during December 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,
Past President, INCOSE

- INCOSE INSIGHT Journal, December 2016, dedicated to critical infrastructure protection and recovery
- Emerging interfaces among INCOSE US Chapters and members with InfraGard EMP SIG chapters.
- An accelerated program aimed at establishing a top-level end-to-end National Energy Reference Model, using INCOSE supported methods and tools, with graduate engineering student resources. Up to 5 universities have indicated a desire to participate.
(This model would provide useful decision analysis and support for upgrade of the power grid for improved resilience. It could also be a prototype framework for expansion to modeling all critical infrastructure.)

Interested in CIPR? Check out the following:

- Join the CIPR WG and attend monthly call in meetings
- Participate in future efforts with the local Baltimore InfraGard Chapter
- Participate in future CIPR discussions on topics related to international, national and local MD activities
- Work on specific efforts that our Chesapeake Chapter sponsors
- Consider signing up to support more detailed CIPR needs and topics (e.g. starting a communications infrastructure working group)
- Support future CIPR presentations at Chesapeake monthly and/or special events (e.g. tutorials and focused ½ day events.)
- If you are interested in the CIPR, please contact Mark Walker (lmw107@bct-llc.com)

INCOSE Institute for Technical Leadership

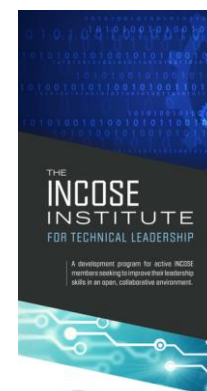
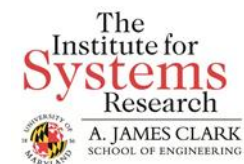
By Jason Sohlke, CSEP, JHU APL



Jason Sohlke,
CSEP

Last spring, the first cohort for the INCOSE Institute for Technical Leadership was selected based on international and local INCOSE leadership nominations. The inaugural cohort consists of 28 diverse individuals from around the world, in a diverse set of industries, and with varying degrees of professional experience and leadership experience. We have one thing in common, the desire to continue to expand our leadership potential in our organizations and INCOSE. I am honored to be a part of this cohort along with our fellow INCOSE Chesapeake Chapter member, Zane Scott. Last year, the call for nominations came out shortly after the International Workshop (IW2015) was held. This year will be similar with a call for nominations in February 2016. The next cohort will be selected and notified in April 2016.

Each cohort meets together at the International Symposiums and International Workshops over a two year period. We stay connected through mentorship efforts and full team webinars between face to face meetings. The initial scope of the institute focused on personal leadership, understanding ourselves as leaders and leading teams. The first cohort finished their second face to face meeting at IW2016 and is currently refining the mission of the Institute for Technical Leadership. If you would like additional information on the institute's initiatives or on nomination and selection requirements, please contact Jason Sohlke, jason.sohlke@jhuapl.edu or Zane Scott, zscott@vitechcorp.com. Additional information is also available on the INCOSE Chesapeake Chapter web site at: www.incose-cc.org/InstituteforTechnicalLeadership



International Space Apps Challenge (ISAC)

Johns Hopkins University (JHU) Applied Physics Lab (APL) is once again sponsoring the International Space Apps Challenge. This is a free, 2 day brainstorming event that NASA sponsors, from April 23 - 24, 2016. The International Space Apps Challenge is a global event composed of more than 100 local events and virtual participation from individuals around the world. The event involves technology development that draws on the talents and initiative of bright minded volunteers – developers, engineers, technologists, designers, and anyone with a passion and desire to make an immediate impact on the world.

ISAC focuses on the challenges of space exploration and social needs and empowers citizens around the world to solve those challenges. The event involves a broad group of diverse participants in collective deliberation and action focused on generating innovative and relevant solutions to pressing problems. The exploration of space is, by necessity, a unified international effort - and diversity of experience and perspective inevitably produces a better product. Visit the 2016 Space Apps Challenge web site and click on REGISTER to sign up before the challenge.

<https://2016.spaceappschallenge.org/>

See [FAQ](#), [Flyer](#) and [Poster](#) for additional information. Questions? Please send an email to spaceappsbw@gmail.com or contact:

Wesley Jenkins, Space Exploration Sector
Wesley.Jenkins@jhuapl.edu

Upcoming Events and Announcements

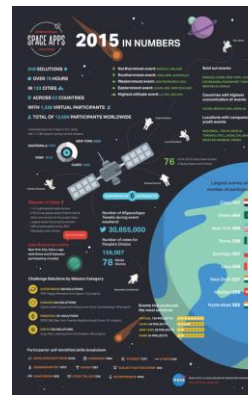
- February 10, 2016: INCOSE Chesapeake Chapter Board of Directors Meeting ¹
- February 17, 2016: INCOSE Chesapeake Chapter Dinner Meeting ^{2,3} New Horizons –The Adventure to Pluto, by Mark 'Indy' Kochte, JHU APL.
- March 9, 2016: INCOSE Chesapeake Chapter Board of Directors Meeting ¹
- March 16, 2016: INCOSE Chesapeake Chapter Dinner Meeting ^{2,3} Matt House, PCT, presenting an Overview of MBSE Integrity Modeler with DoDAF 2.02 Using UPDM 2.1 Tools.
- March 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)



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, ESEP
- Past President: Mr. George Anderson, ESEP
- President Elect: Mr. Michael Pafford
- Treasurer: Mr. Kent de Jong, CSEP
- Secretary: Mr. Craig Tyler, ESEP
- Communications: Mr. Pat Williams, CSEP
- Programs: Mr. Gundars Osvalds, ESEP
- Membership Committee: Mr. Mark Kaczmarek

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