



Chesapeake Chapter INCOSE

Champions and Practitioners of Systems Engineering

Monthly Newsletter

Next Dinner Meeting: Wednesday, 17 April 2019



Cloud-Based Telemetry Processing?

Speaker: Dr. Chandru Mirchandani

Historically, ground systems for space telemetry and commanding have been developed on a mission-by-mission basis. Ground telemetry system designs were rarely reused across projects because reuse often required

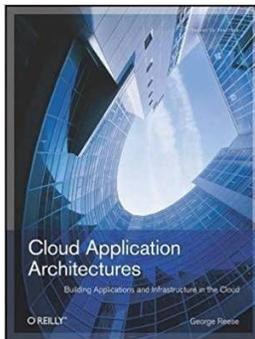
extensive changes in software, hardware, and firmware to meet new mission needs. A new generation of processing modules and systems using a cloud-based architecture will afford up to an order of magnitude in cost reduction and improved reliability and flexibility over present generation systems.

Networking and Dinner at 6pm
and **FREE Lecture** at 7pm
(Earn 1 PDU)



Location: Applied Physics Laboratory, Johns Hopkins University, 11100 Johns Hopkins Rd Laurel MD 20723 (Main Entrance – Lobby 1)

Meal: Sesame-ginger stir fried chicken; Jasmine rice and Stir fried Asian vegetables served with garden salad, dressing, rolls and butter, dessert



Every month at our dinner meeting we have a drawing for the latest in Systems Engineering literature. So come on out for a chance to win. **This month's door prize is: Cloud Application Architectures: Building Applications and Infrastructure in the Cloud** *By George Reese*

Register for this Event at our Website

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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



President's POV

Roadmaps – Taking the Complexity Out of Today's Complex Systems

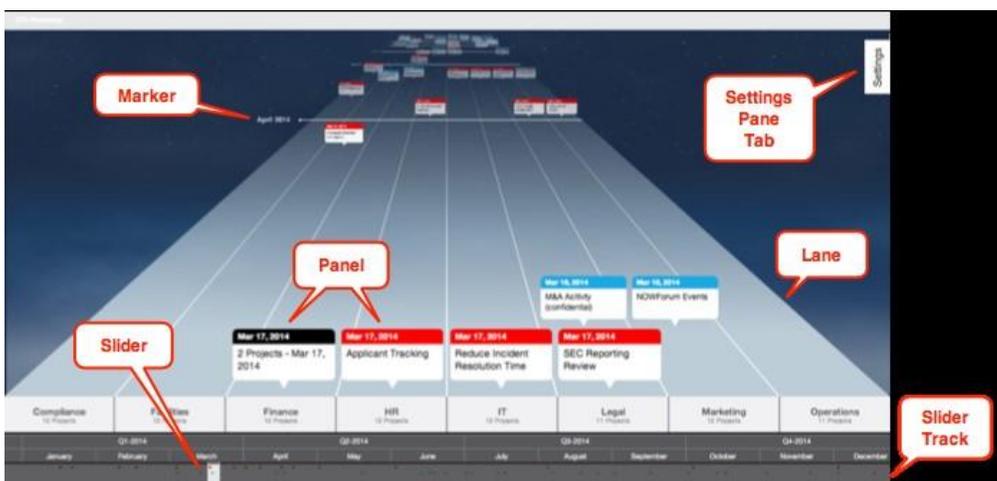


Mr. Taras Alexander Mykytyn

Managing a complex system development being developed is extremely challenging and requires extensive coordination between the all stakeholders, technical teams, leadership and decision makers, operational support teams, and the customer/end users. Delivering complex systems capabilities into operations in a timely and efficient manner, requires a thorough understanding of each product/service teams planned deliverables, as well as the inter-dependencies for achieving integration, testing, deployment, and support milestones. It sounds like a daunting task, but bringing together streamlined processes, program management tools, and technology can address this challenge, and provide a management capability to plan, track, monitor, and execute their yearly executable and multi-year projected plans.

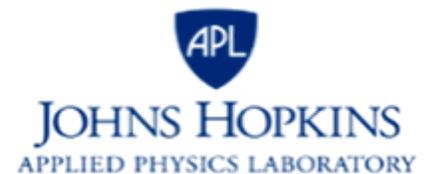
Understanding baseline management, having disciplined configuration/change control processes, mapping out key inter-dependencies between interfaces, and generating integrated tracking plans for phased deliverables, can breakdown the complexity and bring great efficiencies to the program management of a complex system development effort. Strong systems engineering processes supporting program managers can ensure greater success in a program and buy down risk tremendously for all stakeholders.

[Read more at our Website](#)



The Chesapeake Chapter is always looking for volunteers to speak at our upcoming meetings! Please contact our [Programs Director](#) if you would like the opportunity to speak or 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:



Chapter Participation at the 2019 Science Fairs

This March, Chesapeake Chapter volunteers again participated as independent sponsor judges at two of Maryland's premier youth STEM events: The 51st Anne Arundel County Science Expo on March 9th and the 64th Baltimore County Science Fair on March 2nd. Our team of volunteers this year was comprised of ten members: George Anderson (ESEP), Bob Muth (ESEP), Thom Platt (ESEP), Christy Best, Peter Hoffensetz (CSEP), Danny Yue, Bob Koppelman, Jim Campbell (ASEP), Stephanie Miskiewicz (CSEP), and Clinton Hilliard (CSEP).



The entire Chesapeake Chapter judging team came away from both these events extremely impressed with the sophistication and level of effort observed with all the talented students. INCOSE CC's Youth STEM Outreach chair Clinton Hilliard summed up this year's participation in a statement he made prior to presenting awards on stage at the Baltimore Fair ceremony to fair attendees: "That while we professionals, educators, parents, and fair promoters have come here today to offer inspiration to these students, we find that it's these students who have really inspired us."

[Read more about the results and winners at our Website](#)

Please consider volunteering for INCOSE-CC's STEM initiatives. Send your contact info to stem@incose-cc.org

Upcoming Scheduled STEM Outreach Event

Thursday April 25th from 6-8 PM.
Bryant Woods Elementary School
Science Invention Fair
5450 Blue Heron Ln, Columbia, MD 21044
More info at [the BWES Science Fair Website](#).

INCOSE Systems Engineering Professional (SEP) Certification training course.

Back by Popular Demand

Date: May 6-10, 2019 8:00 am to 5:00 pm

The 5-day course will be held at **Johns Hopkins University Applied Physics Lab, in Laurel, Maryland**

We are pleased to announced Certification Training International (CTI) will be offering an INCOSE Systems Engineering Professional (SEP) Certification training course.

[Event Registration at our Website](#)



Applying UPDM 2 with MagicDraw

Two 5-day classes to choose from

Dates: April 08 – 12, 2019

Will be held at **JHU/APL** in
Laurel, Maryland



[Register at our Website](#)

Date: April 22 – 26, 2019

Will be held at **The Aerospace Corporation**, in **Chantilly, VA**



[Register at our Website](#)

No Magic will be teaching these courses which focuses on the implementation of UPDM 2 using core MagicDraw functionality and the MagicDraw UPDM 2 plug-in.

Did you miss last month?



Mr. Millán discusses his research the ability to tailor the ISO/IEC/IEEE 15288 technical processes to incorporate the DARPA's META design flow and extend it into an end-to-end Systems Engineering methodology.

[Read the After Action Report at our Website](#)

[Our YouTube Channel has all our previous lectures. Check it out!](#)

More Systems Engineering Events to Consider

- **April 3-4, 2019: 17th Annual Conference on Systems Engineering Research (CSER).** Location: National Press Club in Washington, DC. [\(More info\)](#)
- **May 1-2, 2019: 5th annual Systems Engineering in Healthcare Conference.** Location: Crowne Plaza AiRE Hotel, Bloomington, Minnesota [\(More info\)](#)
- **July 20 to 25, 2019: 29th Annual INCOSE International Symposium.** Location: Hyatt Regency Grand Cypress, Orlando, FL [\(More info\)](#)

Membership Arena

Mark Kaczmarek, ASEP, Membership Director

INCOSE membership is over 17,000 world-wide. Over 100 corporate members, 70+ Global chapters in over 35 countries. The Chesapeake Chapter of INCOSE serves the systems engineering community in Baltimore and its surrounding areas. Our Chapter is very active and prides itself in the many endeavors it has undertaken. An organization such as ours relies on the willingness of its membership to put as much effort into it as they receive in return.

Learn more about the [benefits of joining INCOSE](#) and consider being part of this thriving organization and fill out an [INCOSE Membership Application](#) today!

INCOSE-CC Membership Breakdown 313 Total Members



The Chesapeake Chapter proudly welcomes our new members:

March 2019

- *Miller, Michael*, Terumo Medical Corporation

February 2019

- *Rodriguez, Noel*, Newport News Shipbuilding
- *Sating, Joseph*
- *Simons, Mark*, Vitech

January 2019

- *Collins, Michael*, Johns Hopkins University
- *Lucas, John*, WR Systems
- *Mineart, Avin*, Leidos
- *Walker, Zachary*, Space and Naval Warfare Systems Command

Jobs! Jobs! Jobs!

There are current openings being advertised on the web site [here](#). Take a look and pass along to colleagues that are interested. Consider advertising your openings by being part of an email campaign as well as a web site announcement. We have over 1200 contacts on our mailing list. Contact me at membership@incose-cc.org

Plus, there is and upcoming job fair that the chapter will have a booth at near Baltimore with [reStart](#) on April 8, 2019. Please consider staffing the booth as well – you'll be able to earn some Professional Development Units (PDUs) towards your CSEP or ASEP renewal.

Upcoming Events: Mark your Calendars

Date: 17-Apr-19

Presentation: Cloud-Based
Telemetry Processing

Speaker: Chandru
Mirchandani

Date: 15-May-19

Presentation: Systems
Engineering Problem-
Solving

Speaker: Prof. Howard
Eisner

Date: 17-July-19

Presentation: Earned
Value Management for
Agile

Speaker: Caitlin Kenney,
P.E.



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 [Communications Officer](#). We value your feedback.