

President's Message



The last few months have been busy for the WMA chapter. With the IS 2017 Symposium behind us, we are now, as host chapter, beginning work on IS 2018. 2018 is going to be an interesting year. For the first time in a while, both the International Workshop (IW) and the International Symposium (IS) will be on the east coast. In the past, I've mentioned how great being involved with the Working Groups (WG) can be. Those efforts, along with some fantastic networking and face to face collaboration occurs at the IW, so consider attending the IW and/or the IS in 2018.

WMA posted a notice earlier about paper submissions for IS 2018. You'll never get a better chance to publish and present to an international forum as you will at IS 2018. So, sharpen those thoughts and do the paperwork. Even if you think the topic still needs work, submit it.

2017 meanwhile, seems to be the year of the SE around this area. The demand seems to grow every day, and we want everyone to equate superior and knowledgeable systems engineering skills with being a member of INCOSE. The WMA leadership is trying to provide knowledge and growth to the chapter members through our web, social media, and email efforts, and with our efforts to attract expert speakers to our monthly meetings.

Speaking of monthly meetings, we are trying a new approach with the meetings (2nd Wednesday of the month), which are now being held at the MITRE complex in McLean. It is a one block walk from METRO (SL McLean) and dinner is included. If you haven't been to one lately, please plan on attending sometime. We also host remote sites (Noblis DC and Vencore Chantilly) where they have full two-way presentations. Finally, we are working on streaming the meetings to your local friendly network device. See the WMA web page for details and registration.

WMA has two student chapters (GMU and GW) and are looking to see if other schools with SE programs would be interested in becoming a student chapter. We think it is a great program opportunity for the students and the school. If you know of contacts in the various DC and VA schools with SE program that might be willing for an introduction and discussion about student chapters, please let Kevin Weinstein (Membership) know. We'd also be looking for advisors and support.

November will also find the WMA chapter setting up for 2018 elections. The details will be posted on the web site, and the voting will be done electronically. Several key positions, including Vice President/President Elect and Treasurer are open. Please consider volunteering, then and now. We could still use some help in key areas. As many of us struggle through the annual end of the fiscal year dance, I hope all have an enjoyable fall season.

Sincerely,
William (Bill) Scheible
WMA President

Chapter Happenings

INCOSE's International Symposium (IS) 2017

Recap by Bill Scheible

Several current and former WMA board members just returned from INCOSE's International Symposium 2017, which all refer to as IS 2017, and was held in Adelaide, Australia. More information regarding the IS 2017 symposium, next year's IS 2018 (being held here), and thoughts about 2017/2018 in general will follow in the next few weeks. Meanwhile, I suggest you check out the [INCOSE YouTube](#) site.

There were several very good keynote speakers at IS 2017, and I would suggest that you listen to [Dr. Tomohiko Taniguihi's talk about the Japanese Bullet Train](#) (very fascinating). You will have a new term to use "Shinkansen," and I would pay attention to the first 30 seconds of his presentation where he mentions how SE is used in Japanese schools. You should also see [Australian Air Vice Marshal Mel Hupfeld's discussion](#) on how they are trying to change the Australian Department of Defense acquisition and program management. AVM Hupfeld is a former F-18 pilot.

The [INCOSE YouTube site](#) also has other videos from IS 2017 and International Workshop (IW) 2017 (held in Torrance, CA last January). The videos from both events offers some good insight into INCOSE as an organization and the growing field of Systems Engineering.

GMU Leads DHS Criminal Investigations and Network Analysis Center of Excellence

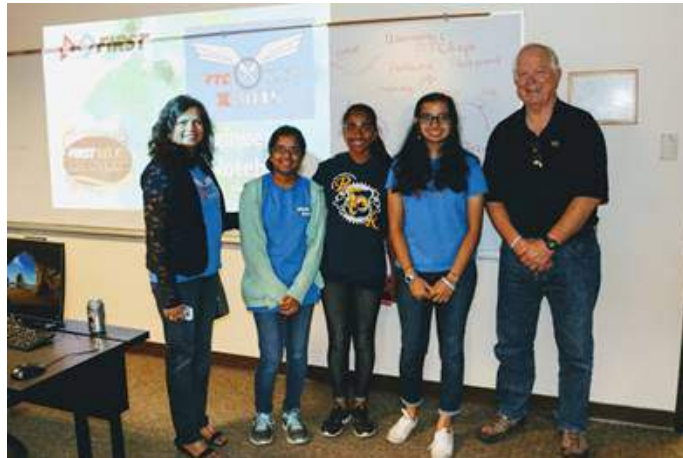
The U.S. Department of Homeland Security (DHS) [Science and Technology Directorate](#) (S&T) has selected George Mason University to create and administer a new Center of Excellence (COE) in Criminal Investigations and Network Analysis (CINA). The Center's research will focus on criminal network analysis, dynamic patterns of criminal activity, forensics, and criminal investigative processes. As the lead institution, GMU will spearhead a consortium of academic, industry, government, and laboratory partners throughout the country. Researchers and educators from departments and schools across the George Mason will work closely with partner institutions, U.S. Immigrations and Customs Enforcement, and other law enforcement organizations in a cross-disciplinary and cross-institution collaboration. The Center will be led by Prof. Anthony Stefanidis (College of Science), and the leadership team includes a system engineer, Prof. Paulo Costa, from the GMU SEOR Department.

XBOTS FTC Kickoff 2017

26 teams from Northern Virginia were present at the FTC Kickoff of 2017. The FTC included workshops in Programming with Java, and Engineering Notebook sessions. The event was a huge success! Bill Scheible was in attendance for WMA.

Photos of the event can be found here: <https://photos.app.goo.gl/wY4nm8M1Dq868gN43>

Game reveal video: <https://www.youtube.com/watch?v=7Wc1LhG2FEs>



Engineering Notebook presentation: Asha (XBOTS coach), team members Tanisha, Neha, Anoushka (presenter and team lead) and Bill Scheible



Lead programmer Charlie Wu (presenter) and team member Krish Patel with Bill Scheible.

We are looking for mentors who can help evaluate our designs or share knowledge in systems engineering. Let us know how we can reach out to INCOSE members who are interested in such opportunities. For more information please contact Dr. Muhammad Islam - Pastpresident@incosewma.org

September 2017 tutorial

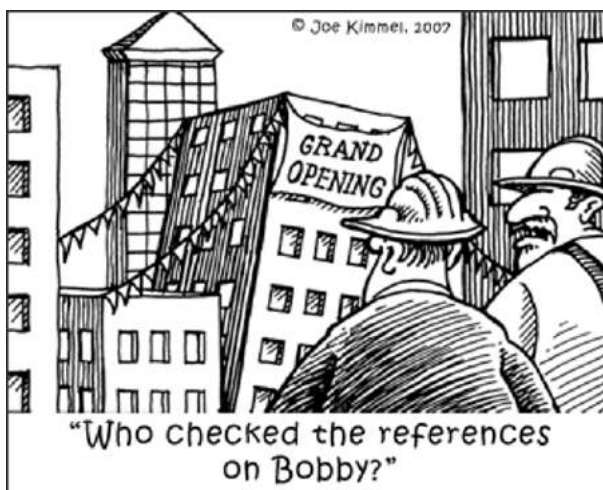
Revolutionary Quality Through Systems Engineering and Systems Thinking

On Saturday, September 30th, INCOSE WMA held an online tutorial on quality through systems engineering and systems thinking. The presenters were Larry Kennedy, Ph.D., CEO of the Quality Management Institute and Barclay Brown, Ph.D., ESEP of the Global Solution Executive of IBM. Approximately 20 registrants took part in the tutorial.

Dr. Kennedy spoke on embracing the 2nd Quality Revolution—a values-based, full-lifecycle approach to preventing defects from ever occurring in the first place, and apply systems thinking to optimize design, development and production work processes. Dr. Kennedy assigned an action item to attendees to visit the website: <http://qualitymanagementinstitute.com/> to learn from the quality course offerings and partake in the quality working group.

Dr. Brown spoke on the specific techniques that systems engineers can use to provide leadership in the organization, solve problems using systems thinking and build toward a quality-oriented values culture. The presentation covered the birth of systems, what is a system and types of systems, the larger nexus among systems disciplines including systems science, systems thinking, and systems dynamics. During the presentation of the concept of central insight, Dr. Brown brought to light the linear thinking, false cause, effects and components. Several examples were discussed on thinking through a system and deconstructing them to think about causes, failures and their effects.

Visit the INCOSE WMA website to register for the October 2017 tutorial on logistics planning and systems engineering.



Dr. Larry Kennedy is the Founder and CEO of the Quality Management Institute. His inter-disciplinary background in engineering and business, together with his practical experiences as a nonprofit trustee and foundation executive have uniquely prepared him to evaluate and train managers. With over thirty years of Quality Management experience in aerospace, business, and as a management consultant and trainer, he has a broad perspective on management reform processes. He was also mentored by Phillip Crosby, the world-renowned Quality Management executive, and he has provided consulting services to businesses and nonprofit organizations over a broad spectrum.

<http://qualitymanagementinstitute.com>



Dr. Barclay Brown is the Global Solution Executive for the Aerospace and Defense industry and IoT Solution Architect, in the IBM Watson IoT division. He is co-author of the book Model Driven Systems Engineering with Rational Tools. Dr. Brown received his bachelor's degree in Electrical Engineering with master's degrees in Psychology and Business and PhD in Industrial and Systems Engineering. He is a certified Expert Systems Engineering Professional (ESEP), the former INCOSE Director for the Americas and an Adjunct Teaching Professor at Worcester Polytechnic Institute and a Graduate Faculty Scholar at the University of Central Florida.

Dr. Kennedy and Dr. Brown are the co-founders of the new INCOSE International Working Group on Systems Engineering and Quality Management.

Annual SEP GALA hosted by Chesapeake Chapter

by Laurie Nasta, ESEP-Acq., former INCOSE-WMA Past-President

Both Ken Zemrowski and I attended the Annual INCOSE Systems Engineering Professional Gala on 18 August 2017 at the Engineer's Club in Baltimore, MD hosted by the INCOSE Chesapeake Chapter where I was recognized for receiving the Expert Systems Engineering Professional (ESEP) certification this year. We were joined by another INCOSE-WMA member, David Long, also receiving recognition for attaining his ESEP certification this year. David is also the immediate Past-President of INCOSE. It was great to see David there at the event! Other WMA members present at event included current WMA president Bill Schieble, and DAU Professor John Snoderly. I have been an INCOSE Certified SE Professional since 2004, having added the Acquisition extension in 2009. In order to receive this certification --which is the only recognized certification for Systems Engineers in the International community -- I had to demonstrate *30 years of SE work in multiple (6) domains, 5 years of demonstrated leadership experience in the SE community, professional recommendations from SE peers, and pass a rigorous interview on SE questions/challenges from a panel of randomly selected ESEPs. (*I had to demonstrate 30 years vice the regular 25 since I did not have an Engineering undergrad degree.) Ken is already an ESEP (along with being an INCOSE Fellow), and graciously mentored me through the process, and was there to welcome me "to the (ESEP) club" in the receiving line held after all the recognition certificates were passed out. (All new Associates SE Professionals [ASEPs], Certified SE Professional [CSEPs] and ESEPs from Chesapeake and Washington Metro Area [WMA] Chapters are acknowledged at this event.)

It was wonderful to be recognized at the event, and receive the recognition certificate from Ms. Courtney Wright, the current INCOSE Certification Program Lead, and our current INCOSE WMA President Bill Scheible. Ironically, I worked with Courtney when she first entered consulting business at Booz Allen Hamilton where she was doing performance modeling, and frankly not enjoying it too much, which she readily admitted then and at the event! I provided some mentoring to her back then on how she might broaden her skillsets, and encouraged her to join INCOSE and learn about other SE domains, and start the certification process as she began to learn about SE and as she grew her career. Luckily, she took my advice, she branched into other domains, her career took off, she became active in INCOSE, and she did so well that years later she was asked to head up the Certification program! To learn more about the levels of certification (Associates SEP, Certified SEP, Expert SEP) check out this link here for the requirements: <http://www.incose.org/certification/CertWhichOne>).

The Gala also featured a discussion on the contributions of Systems Engineering, specifically featuring Dr. Ron Luman, from John Hopkins University who spoke about an early JHU program which significantly contributed to reversing the course of the war in WWII. The event would not have been complete without a presentation also from Courtney Wright on the state of the Certification program, after a lighthearted fun brief about the solar eclipse! It was a great night to connect with old friends and make new ones. Some pictures from the event are provided here; to see all of the photos from the event check out this link: <https://amandamations.smugmug.com/Events/Business/SEP-Gala-2017/>

INCOSE WMA Newsletter Volume 2017, Issue 4

SEP GALA August 2017 PHOTOS



Congratulations to our newest SEPs!!!!!!

Expert Systems Engineering Professional (ESEP)



Mr. Peter Butziger
Ms. Robin Hershey
Mr. James Hubbell
Mr. David Long
Ms. Laurie Nasta
Ms. Vantresa Scott

Certified Systems Engineering Professional (CSEP)



Mr. Tony Gigioli
Ms. Linnea Wright

Associate Systems Engineering Professional (ASEP)



Dr. Grace Crowder, PhD
Mr. Joseph Dougherty
Mr. Mark Kaczmarek
Ms. Tammy Kolarik
Mr. Anthony Millan Figueroa

New INCOSE WMA Members

Let's welcome everyone who joined the Chapter this Summer!

Last	First	Company	Join Date
Abed	Aladdin	Booz Allen Hamilton	9/7/2017
Adams	Shawnette	Northrop Grumman Corporation	9/1/2017
Barr	Charles	NSS	6/19/2017
Beacham	Laura	Logistics Management Institute (LMI)	6/20/2017
Belcher	Gerald		6/12/2017
Bosack	Michael		8/16/2017
Boussouf	Seghir	MITRE Corporation, The	7/5/2017
Bragg	Edward	Optical Systems Consultant	9/11/2017
Bryan	Hammond	SAIC	6/13/2017
Conate	Heinzdell	The MITRE Corporation	8/20/2017
Corbett	Donald	DigitalGlobe	6/4/2017
Coy	Kevin		8/5/2017
Creedon	Michael	Logistics Management Institute (LMI)	7/3/2017
Davenport	Deb	321 Gang	7/27/2017
DeCamp	James		6/14/2017
Enugu	Manohar	Logistics Management Institute (LMI)	6/20/2017
Forsbacka	Matt		6/16/2017
Garabelli	Bettina	Logistics Management Institute (LMI)	6/27/2017
Glenn	Sean	Logistics Management Institute (LMI)	6/22/2017
Green	Susan	Chenega Federal Systems	9/8/2017
Guertin	Nickolas		7/24/2017
Hans	Carl		7/18/2017
hardy	keenan	Logistics Management Institute (LMI)	7/6/2017
Harleston	Evelyn	Logistics Management Institute (LMI)	6/29/2017
Hirschman	Keith		6/18/2017
Hixson	Michael	Booz Allen Hamilton Inc.	6/8/2017
Howard	Rhiannon	Quality	6/4/2017
Jamieson	Daniel	Logistics Management Institute (LMI)	7/5/2017
Johnson	David	ICS	9/5/2017
Kelly	Shannon		9/5/2017
Kilduff	Sean	Logistics Management Institute (LMI)	6/28/2017
LeBlanc	EJ		6/15/2017
Mahady	Carole	Logistics Management Institute (LMI)	6/27/2017
Margetson	Chad		7/21/2017
Mayville	Martha		7/2/2017
Park	Anthony	Logistics Management Institute (LMI)	7/8/2017
Pettit	Christina	Northrop Grumman	7/26/2017
Ray	Yolanda	Logistics Management Institute (LMI)	7/18/2017
Rich	Chad	Logistics Management Institute (LMI)	7/17/2017
Robinson	Chris	Director, Major Defense Acquisition Programs	7/15/2017
Russo	Pat		7/13/2017
Sakhrani	Vivek		6/25/2017
Seaton	Michael	US Department of Defense	7/7/2017
Siroonian	Kristie	Logistics Management Institute (LMI)	6/19/2017
Street	Lolita	Johns Hopkins University	6/6/2017
Taylor	Kristin	Systems Engineering	7/24/2017
Trumbo	Davida	Customer Satisfaction	6/23/2017
Uyeda	Charles		7/20/2017
Vandenberghe	Jack	Logistics Management Institute (LMI)	7/30/2017
Walchinsky	Matthew	Vencore	6/15/2017
Wilson	Elizabeth		6/20/2017
Wilson	Susan	Northrop Grumman Corporation	7/5/2017
Yu	Sena		7/30/2017
Zunic	Jamie	Logistics Management Institute (LMI)	6/29/2017



Local Upcoming Events

Mark Your Calendars!

20th Annual NDIA Systems Engineering Conference

October 23-26, 2017

The 20th Annual Systems Engineering Conference will be convened on October 23-26, 2017 in Springfield, VA. This conference will focus on improving acquisition and performance of Defense programs and systems, including system - of - systems engineering, systems security, net-centric operations and data/information interoperability, and all aspects of system sustainment. This conference is sponsored by the National Defense Industrial Association, Systems Engineering Division, in cooperation with IEEE Aerospace and Electronic Systems Society, IEEE Systems Council and the International Council on Systems Engineering, and is supported by the Office of the Deputy Assistant Secretary Defense for Systems Engineering in the Office of Under Secretary of Defense for Acquisition, Technology and Logistics.

[Registration](#)

Andrew P. Sage Memorial

Systems Engineering

Capstone Design

Invitational Competition

George Mason University, Volgenau School of Engineering

May 7, 2018

As society's challenges and technologies have become more complex, the traditional approach to solving engineering problems grows increasingly unwieldy. Systems Engineers thrive on managing complexity to produce systems that meet stakeholders' needs in a cost-effective manner. In memory of one of the Founding Fathers of Systems Engineering and the Founding Dean of George Mason's Volgenau School of Engineering, this event challenges student teams to demonstrate their ability to tackle complex design problems in a rigorous, peer-reviewed competition.

For more information contact Lance Sherry <lsherry@gmu.edu> or George Donohue <gdonohue@gmu.edu>

SE Eminence Opportunities

INCOSE Technical Leadership Institute

INCOSE Technical Leadership Institute is a development program for active INCOSE members seeking to improve their leadership skills in open, collaborative environment.

Purpose:

The purpose of the Institute is to accelerate the development of systems engineering leaders who will exemplify the best of INCOSE and SE profession.

Program Overview:

The technical leadership institute is two-year program where new cohort is formed annually. There are four events per year: two face-to-face and two webcast. There are individual projects work between the events. Each cohort mentors the one following. The candidate for the cohort must be nominated by an INCOSE Chapter leader by submitting an application package and be recommended by their home organization.

The Benefits:

- Individual members will become more capable leaders within their organizations
- INCOSE will have a growing pool of capable leaders from which to draw on, filling leadership positions
- INCOSE's international reputation will be enhanced by helping to develop systems engineering leaders of the highest caliber

INCOSE Technical Leadership Institute is accepting nominations for their new cohort that is going to kick-off summer 2018. If you have a candidate you would like to nominate, please reach out to INCOSE WMA chapter BOD bodall@incosewma.org

Calling an WMA authors!

This is the chance you've been waiting for! The opportunity to submit an internationally reviewed Systems Engineering paper and you only have to take a METRO ride to present it! All the details are at: <http://www.incose.org/docs/default-source/events-documents/is2018/is2018-call-for-papers-panels--amp--tutorials-final.pdf?sfvrsn=2> and it is free to submit.

Key Dates for IS 2018 Papers:

Submission deadline 10th November 2017

Notification of acceptance and referee comments 16th February 2018

Final Manuscript 30th March 2018

Up Coming Local Events



Our mission is to serve the systems engineering community in Washington, DC and its suburbs. INCOSE is an international professional organization dedicated to advancing the practice of Systems Engineering.

October 11th, 6pm to 9pm: Achieving Systems Engineering and Development (SE&D) Excellence: Shifting Outdated, 1980's SE Paradigms that Contribute to Project Performance Issues

Monthly Meetings are typically held on the 2nd Wednesday of each month. Meetings are a combination of business, presentation and socializing. All are welcome. And INCOSE membership is not required to attend.

Main Meeting Site: MITRE Building 1, Room 1H 00, in McLean, VA; parking available in parking lot in the front of the venue. Closest Metro, McLean

Satellite Locations:

Washington D.C.

Joblis - The Capital Gallery Building
social hour starts at 5:30 pm at the "After Hours Bar" (in the building). U.S. citizens only.

Fairfax, VA

George Mason University – Fairfax, VA

Chantilly, VA

Zencore - U.S. citizens only

For more details and to register go to the INCOSE WMA web site at:

www.incosewma.org

Next Meeting:

Future Directions for SysML v2

Presenter: Sanford Friedenthal

Date: Wed Nov 8, 2017

Presenter: Charles Wasson

Systems Engineering & Development (SE&D) projects continue to exhibit performance issues ... despite investments over the past 30 years in Engineering education, training, Capability Maturity Model Integration (CMMI), ISO 15288, Organizational Standard Processes (OSPs), and SE certification by industry, government, academia, professional, and standards organizations.

The state of Systems Engineering today is rooted in outdated, 1980's SE practices characterized as "abstract 'brands' of SE" across academic, industry, government, professional, and standards organizations, not competency standards.

Rhetorically, would you board an aircraft with a flight crew qualified on abstract philosophies of flying? Yet, contracts are released every day to developers proposing "what they think

... they think" SE is. Then, if the project fails or has poor performance, Systems Engineering is blamed.

Most Engineers spend, on average, from 50% to 75% of their total career hours making "systems" decisions for which they have no bona fide SE courses. Yet, they graduate with hours of courses in subject matter that most will spend < 1% of their total career hours. Exacerbating the problem are SE courses taught by instructors who lack in-depth, industry-based, SE experience over many years of projects. Unfortunately, Systems Engineering research has largely ignored these issues, which cost industry and government billions of dollars every year applying SE practices that are typically ad hoc, ineffective, and inefficient. As Dr. Albert Einstein observed, "Insanity is continuing to do the same thing over and over expecting a different result."

Join us for an informative presentation for new and seasoned professionals – Systems, Electrical/Electronic, Mechanical, Software, et al Engineers and Managers; Project Managers (PMs); Business Analysts; and Executives – by international award winning SE textbook author, Charles S. Wasson, one of today's leading Thought Leaders in SE&D. This presentation provides insights that will enable you to "lead and shift" outdated SE paradigms in your Enterprise, organization, or project, which are often ad hoc, ineffective, and inefficient, to achieving 21st Century SE & D excellence.

What You Can Expect to Learn

1. Understand how to recognize outdated 1980's SE paradigms thriving within your SE projects.
2. Understand how these paradigms evolved and reduce SE capabilities and project performance.
3. Learn how you can "lead and shift" these outdated paradigms.

GDIISE

National Capital Chapter

ON

UNIVERSITY



Affordability and Lean Six Sigma

11 October + Wednesday Evening + 6:30 to 9:00pm

Presenter

Paul Odomirok
Sr. Trainer and Consultant Performance Excellence Inc.

Sponsor

UNIVERSITY

Institute of Industrial & Systems Engineers (IISE) National
Capital Chapter

Cosponsors

Systems Engineering and Operations Research (SEOR)
Department, George Mason University

Institute for Operations Research and the Management Sciences,
Washington, DC Chapter (WINFORMS)

International Council on Systems Engineering (INCOSE),
Washington Metropolitan Area Chapter

Abstract

More and more organizations are turning to continuous improvement techniques to increase the affordability of their organization. Cutting production costs, increasing marketing share, improving quality, and increasing speed of production or delivery of services, all fall under the affordability umbrella. In his presentation, Paul Odomirok will outline the framework for implementing affordability using lean six sigma methodology. His new book, *Affordability: Integrating Value, Customer, and Cost for Continuous Improvement*, further elaborates on what affordability has to offer industries seeking to become faster, more capable, and more profitable.



Date: Wednesday, October 11, 2017

Time: 6:30pm Registration and Refreshments + 7:00pm Program + 9:00pm Adjourn

Price: \$10 for professionals. Students, free. Net proceeds to INCOSE student chapter at George Mason University. Light refreshments available.

Place: Johnson Center, Room 333, Meeting Room D (3rd floor), George Mason University+ Park in the Mason Pond Deck Parking Deck. See map at:

<http://www.gmu.edu/resources/welcome/Directions-to-GMU.html> The parking deck is Building 40 shown in purple. The Johnson Center is Building 30 shown in red.

To insure adequate seating and refreshments, please register on or before October 2 at [TICKETS](#)

Questions/Directions: contact Neal Schmeidler at 703.562.6625 or neal.schmeidler@us.gt.com

*Limited Seating + Act Now + Reserve Your Seat
Bring your boss... a friend... a coworker... a client!*

Chesapeake Chapter Upcoming Events

18 October 2017 Monthly Networking, Dinner and Lecture

October 18, 2017 Johns Hopkins University Applied Physics Laboratory Map and Directions | Register Integrated Program Management and Systems Engineering Randall Iliff and Stephen Townsend Presentation: One major effort of the INCOSE alliance with MIT and PMI has develop a book incorporating research our organizations have supported over the past three years focused on [...]



[Read the full article →](#)

CSEP/ASEP Exam Preparation Training – January 29-Feb 2, 2018

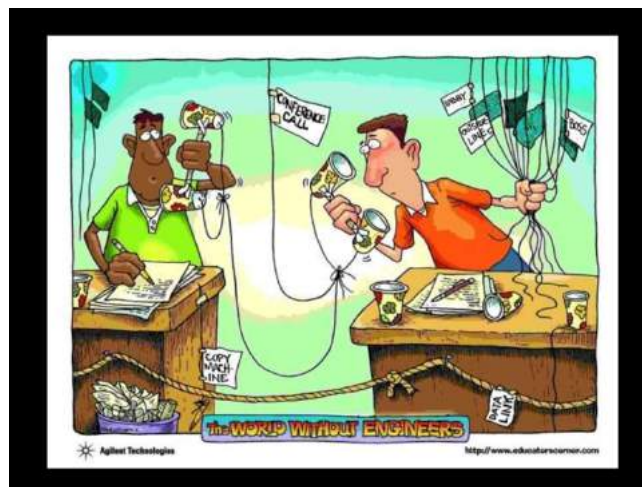
January 29, 2018 – February 2, 2018 Johns Hopkins University Applied Physics Laboratory Map and Directions | Register CSEP/ASEP Exam Preparation Course January 29 – Feb 2, 2018 8:00am – 5:00pm We are pleased to announced Certification Training International (CTI) will be offering an Associate Systems Engineering Professional (ASEP) and Certified Systems Engineering Professional [...]

[Read the full article →](#)

No Magic Training 2018 Feb

February 5, 2018 – February 9, 2018 Johns Hopkins University Applied Physics Laboratory Map and Directions | Register Applying UPDM 2 with MagicDraw Training February 5 – 9, 2018 8:00am – 5:00pm Description: Applying UPDM 2/DODAF/MODAF with MagicDraw is a 5-day course for Unified Profile for DoDAF and MODAF (UPDM 2). The course [...]

[Read the full article →](#)



SE Education and Volunteering Opportunities

Upcoming Tutorials

Month	Date	Time	In-person or On-line	Presenter(s)	Topic
October	14	8:30am Arrival; 9am-Noon Presentation	GMU Online	Dr. Andrew McDonald, Logistics Planning	Logistics Planning within a Systems Engineering Life Cycle
November	4	8:30am Arrival; 9am-Noon Presentation	GMU Online	Dr. Danny Moore	Systems Healthcare topic
December	TBD	8:30am Arrival; 9am-Noon Presentation	GMU Online	TBD	TBD

Volunteer Opportunities



STEM

Interested in STEM? Join the INCOSE STEM Committee. We are charged with advocating STEM programming across the Washington Metro Area. Click here:

<https://groups.google.com/forum/#!forum/incose-wma-stem-wg> and hit “Apply for Membership.”

Our vision:

Science, Technology, Engineering, and Mathematics (STEM) are at the cornerstone of being a consummate system engineer and are vital to our future. In a world that is becoming increasingly complex, it is often through practicing STEM professionals we are able to move the needle on invention and innovation for the better good of all society. All young people should be able to think critically and reason deeply so that they have the opportunity to become scientist, innovators, educators, and researchers solving current and to-be discovered global challenges. INCOSE’s mission is to “share, promote and advance the best of systems engineering from across the globe for the benefit of humanity and the planet.” The best way to share, promote, and advance the SE practice is through the enablement of our future leaders, equipping them today with the skills and ability to tackle our toughest global problems of tomorrow. INCOSE WMA will be standing up a STEM working group whose purpose is to address the very issues identified above and instill the strategic long term ‘systems’ thinking in our young leaders. Please join our Google group for more information.

Get Connected with the WMA

LinkedIn Groups

INCOSE's Certification Program Office oversees three groups on LinkedIn: [INCOSE SEPs](#), [the Official Interest Group](#) is open to all [INCOSE SEP](#), [the Official Group for Systems Engineering Professionals](#) is limited to those individuals who are already ASEPs, CSEPs, or ESEPs. [INCOSE ESEP](#), [the Official Group](#) is limited to those individuals who are already ESEPs.

Official Twitter Account for INCOSE WMA: <https://twitter.com/incosewma>

Official Facebook: <https://www.facebook.com/incosewma/>



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