INTERNATIONAL COUNCIL ON SYSTEMS ENGINEERING

CENTRAL VIRGINIA CHAPTER

www.incose.org/central-virginia
Apr 2025

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Cordially invites you to attend a joint dinner meeting of INCOSE/CVC and PMI/CVC and presentation by:

Philip Sage

John Hopkins University
Applied Physics Lab

Topic:
AI Assurance: Policy, Technology, Processes and T&E

At:
Park Lane Tavern

Spotsylvania Towne Centre, 1 Towne Centre Boulevard, Fredericksburg, VA (see map)

Wednesday, 23 April 2025

Times:	Social (Cash Bar)	1800	(Everyone Welcome)	
	Dinner	1830	INCOSE Members:	$15.00
	Presentation	1930	INCOSE Guests:	$15.00
			INCOSE Students:	$15.00

Menu: A variety of dinner choices are available for the given price and one coffee, tea or soft beverage.

Contact: Note: New for our Apr 23 dinner, Park Lane Tavern has asked for a head count, so please RSVP to me early, and no later than COB Apr 16th via email at gchambers426@msn.com. We expect to hit capacity for this event.

We ask you to help us out by reserving early. You can always cancel later if things change so you cannot make it. Please come out and support this event so that the Chapter can continue to hold meetings in Fredericksburg on occasion. Thank you.

Abstract: The presentation outlines the concept of AI assurance as the process of evaluating and communicating the trustworthiness of AI systems, particularly for the Department of Defense (DoD). It emphasizes the importance of building justified confidence in AI through structured assurance cases, effective policy, robust technologies, and comprehensive test and evaluation (T&E) processes. A trustworthy system is one that reliably performs its intended functions, avoids harmful behavior, and integrates well with human operators. Key efforts include runtime assurance, continuous monitoring, and the work of Task Force Lima on generative AI, supported by APL's development of T&E frameworks and experimentation strategies.

Business Meeting: A short INCOSE business meeting will be held after the presentation to discuss and update on Chapter initiatives and business.

Speaker: Philip "Phil" Sage is a seasoned leader in AI, autonomy, and national security technologies. He currently serves at Johns Hopkins University Applied Physics Lab (APL), helping lead the Lab's Autonomy and AI initiatives within the QAT sector. This includes work with SOCOM on interoperable architectures for uncrewed systems and machine learning competency.

Through the Intergovernmental Personnel Act (IPA), Phil was Director of the Analytics Technology Office at the National Geospatial-Intelligence Agency (NGA), starting this office for NGA Research. He oversaw advanced research in image and video analytics, GEOINT forensics, and predictive analytics. His extensive government experience also includes key roles at DARPA, IARPA, and Project Maven, where he led efforts in machine learning, cyber defense, and emerging technology development.

Phil has served as Chief of Staff at DARPA's Strategic Technology Office and led numerous high-impact programs in cybersecurity, sensor analytics, and AI-driven threat detection. He holds an MS in Information Systems and Electrical Engineering and a BS in Electrical and Computer Engineering from George Mason University.

President Corner: "WOW" sums up our last dinner meeting! Pacifique Munezero gave a great presentation on Model Base Systems Engineering (MBSE) that was part of her doctoral research. I am happy to report that she defended her dissertation research at Old Dominion University the next day! Congratulations to her from all of us. We also broke our attendance record at Park Lane with her presentation!

Now for "BIG NEWS!" Our members have been asking for a presentation on Artificial Intelligence and at our next meeting on Apr 23rd we will deliver.

Mr. Philp Sage, from John Hopkins University Applied Physics Lab, will give a presentation on "Artificial Intelligence Assurance: Policy, Technology, Processes and T&E." Previously he was a Director at NGA and DARPA. Our Systems Engineers and Program Managers will be listening closely to hear the latest research in AI as it relates to the Dept. of Defense. Can AI be integrated with humans? I am really looking forward to the presentation! The cost of dinner is only $15 each. Networking and social at 6:00 pm, dinner at 6:30, and presentation at 7:30.

We will hit capacity for this event, so RSVP to me early!
Sincerely,
Dr. Gregory L. Chambers, INCOSE/CVC President
Gchambers426@msn.com, (540) 287-1191 mobile
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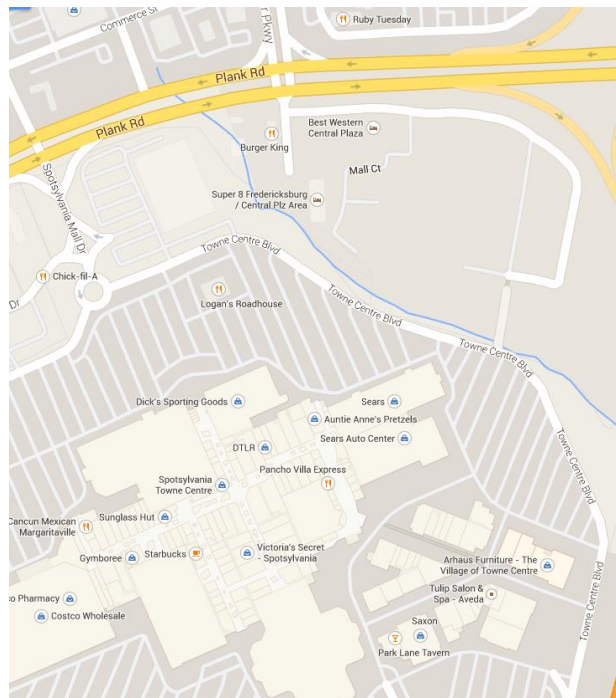
The International Council on Systems Engineering (INCOSE) is a not-for-profit membership organization founded in 1990. Our mission is to advance the state of the art and practice of systems engineering in industry, academia, and government by promoting interdisciplinary, scalable approaches to produce technologically appropriate solutions that meet societal needs.

Want to get more involved? The Chapter is looking for people who want to do more for the Chapter. There are Chapter committee positions that need people to fill them. There are Chapter positions suited for those who can make small or large commitments. Contact the Chapter President for information or attend one of the regularly scheduled Dinner or Executive Committee meetings.

To get information on leadership responsibilities, contact any of members of the Executive Committee of the Chapter listed on the letterhead located on the first page.

Map to Park Lane Tavern: Get off Interstate 95 at Exit 130 and go west on Route 3 (Plank Road) and turn left into Spotsylvania Towne Centre Mall. At roundabout go left on Towne Centre Blvd and follow it around to the back of the Mall where one turns right to get to the restaurant as shown on map.

Interested In Becoming an INCOSE Member?
If you would like more information about the international Council on Systems Engineering (INCOSE) or you are

interested in obtaining information about becoming a member, please contact any of the members of the Executive Committee of the Central Virginia Chapter. Their names and contact information are listed in the "letterhead" located on the first page.

From the Desk of the Editor: If you are not on our Chapter's newsletter emailing list, please send Laurence and Dan an email and we will make sure to get your name on the list. You will then get future newsletters and meeting announcements. Our contact info is on front page.
Again, we want to remind the membership of the efforts that go into organizing a meeting and the efforts of the speaker to prepare his/her presentation. These dinner meetings can only continue with your support. The Officers of the Chapter will continue to arrange excellent programs and the Chapter will continue to subsidize the cost of some of the meal for all INCOSE attendees.
We hope that you decide to support this engineering event, of which there are only a few per year. Also, I hope to meet you and get to know you.

Meeting and Events Schedule:

Future Meetings and Events:
Apr 23, 2025, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Philip Sage; Topic: AI Assurance: Policy, Technology, Processes and T&E; Coord: Eileen McConkie
May 21, 2025, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; TBD; Topic:TBD; Coord: Greg Chambers

Past Meetings and Events:

Mar 26, 2025, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Pacifique Munezero; Topic:Digital Engineering Modeling for Systems Safety with Considerations for Human System Integration and Cybersecurity; Coord: Carlos Perez-Luna
Feb 26, 2025, 1800 (Canceled): Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; TBD; Topic:TBD; Coord: Greg Chambers
Jan 22, 2025, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Robert Aftel; Topic: Dieselgate; Coord: Greg Chambers
Oct 23, 2024, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Jim Cech; Topic: Naval Integrated Fire Control Program; Coord: Greg Chambers
Sep 25, 2024, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Greg Buchanan; Topic: The Latest Developments in the Extreme Power Internal Combustion (EPIC) Engine ; Coord: Greg Chambers

May 22, 2024, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; No Show; Topic: INCOSE member's topics; Coord: Greg Chambers
Apr 24, 2024, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Nicholas Fronzo ; Topic: AEGIS Engineering Processes and the Program Management Organization for Execution Monitoring and Controls; Coord: Greg Chambers
Mar 27, 2024, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Kerrie Arkwell; Topic:; Leading Project Management Teams; Coord: Greg Chambers
Feb 28, 2024, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Marion Karol, PMP, DASM; Topic: Transformative Journey from PMBOK 6 to PMBOK 7; Coord: Greg Chambers
Nov 29, 2023, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Brett Sheffield; Topic: This is not your Dad's Raid Log: A Project Manager's Real-World Approach to Risk Management; Coord: Eileen McConkie
Oct 25, 2023, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Heather Crampton; Topic: Project Management Communication; Coord: Eileen McConkie
Sep 27 2023, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Andrew V Karpov; Topic: Not Your Typical Agile Transformation or How Agile Can Change Your Life; Coord: Eileen McConkie
Aug 23, 2023, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Steven H. Dam; Topic: Can Data-Driven Systems Engineering Meet the Goals of SE Modernization?; Coord: Eileen McConkie
May 23. 2023, 1800: Cancelled: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Mickey Skamangas; Topic: System Engineering; Coord: Eileen McConkie
Apr 26. 2023, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Anthony I Hennig; Topic: Measuring System Architecture Properties; Coord: Eileen McConkie
Mar 22, 2023, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Steve Brand; Topic: Using Emotional Inteligence to Improve Project Preformance; Coord: Eileen McConkie
Feb 22 2023, 1800: 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Eileen McConkie; Topic: Membership in the International Council Of Systems Engineering (INCOSE); Coord: Eileen McConkie