

INTERNATIONAL COUNCIL ON SYSTEMS ENGINEERING

CENTRAL VIRGINIA CHAPTER

www.incose.org/central-virginia
Feb 2023

President (2023)
Eileen B. McConkie, PhD
(540) 845-3438
eileenmc@gwmail.gwu.edu

Vice President (23-24)
Greg Chambers, PhD
(540) 287-1191
gchambers426@msn.com

Secretary (2023)
Rod Cutright
(540) 760 5347
Roderick.cutright@gmail.com
Roderick.cutright.ctr@navy.mil

Treasurer (23-24)
Vacant

Director (23-24)
Laurence L Thayer
(540) 623-3994
laurence.thayer@navy.mil

Director (23-24)
Vacant

Director (23-24)
Vacant

Director (22-23)
Alan W. Brown
(540) 653-5412
alans.systems@gmail.com

Director (22-23)
Vacant

Director (22-23)
Vacant

Newsletter Editor
Laurence L Thayer
Dan Vavrick
danvavr1c@gamil.com

Webmaster
Alan W. Brown

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

Eileen B. McConkie, PhD
System Engineer
Johns Hopkins University
Applied Physics Laboratory

Topic:

**Membership in the International Council Of Systems
Engineering (INCOSE)**

At:
Park Lane Tavern

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

Wednesday, 22 Feb 2023

Times: Social (Cash Bar)	1800	(Everyone Welcome)
Dinner	1830	Charge: Attendees order from the menu and are
Presentation	1930	responsible for their bills

Menu: A variety of dinner choices are available from the menu including entrees and salads.

Contact: Eileen B. McConkie, PhD, (540) 845-3438, eileenmc@gwmail.gwu.edu or Greg Chambers, PhD (540) 287-1191 gchambers426@msn.com to make your INCOSE reservation and for PMI contact Rod Cutright, (540) 760 5347, Roderick.cutright@gmail.com or Roderick.cutright.ctr@navy.mil.

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: Over the last couple of years INCOSE has been adjusting and shifting. Dr. McConkie will present the benefits of membership in INCOSE as well as Vision 2035. She will discuss how you can get involved and how being involved may increase your potential as a System Engineer. She will discuss the certification process as well as how INCOSE as a whole is reaching out to expand system thinking into the early education and introduce and advance digital engineering.

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

Speaker: Dr. Eileen McConkie is a System Engineer with Johns Hopkins University, Applied Physics Laboratory. Dr. McConkie has over 30 years of experience with the federal government, industry, and academia. Before coming to JHU APL, Dr. McConkie was lead System Engineer for NAVSEA Warfare Center Fleet Engagement Community of Practice, Served as the USA technical representative and lead for the Force Level Open Architecture Technical standards (FLOATS) task in support of the Maritime Theater Missile Defense, Lead System Engineer for the Missile Defense Agency Joint Integrated Air and Missile Defense and Safety Engineer for Gun Weapon Systems. Dr. McConkie has a PhD in Systems Engineering, a MS in System Engineering, and a BS in Mechanical Engineering.

President's Corner: Hello 2023! We are excited to begin another year of our local INCOSE chapter. We have monthly meetings planned from Feb 22 through May 24 at Park Lane Tavern in Fredericksburg, Va. We will have guest speakers at each meeting. Please mark your calendars so you can join us for many of the upcoming meetings! Our meetings are set up as joint endeavors with the local PMI chapter. Can't wait to see many of you at each meeting.

Our chapter needs a treasure and guest speakers. If you have topics, you would like to present or to hear more on please send our way. If you are willing and able to join us as a treasure, please let us know.

This month's topic will be INCOSE Vision for 2035. I will present the direction INCOSE sees System Engineering is looking towards and ways that we, as individuals and as a chapter, can get involved and help promote Systems Engineering.

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 go to the Central Virginia Chapter website to view the Bylaws and Constitution, <http://www.incose.org/central-virginia/>.

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.

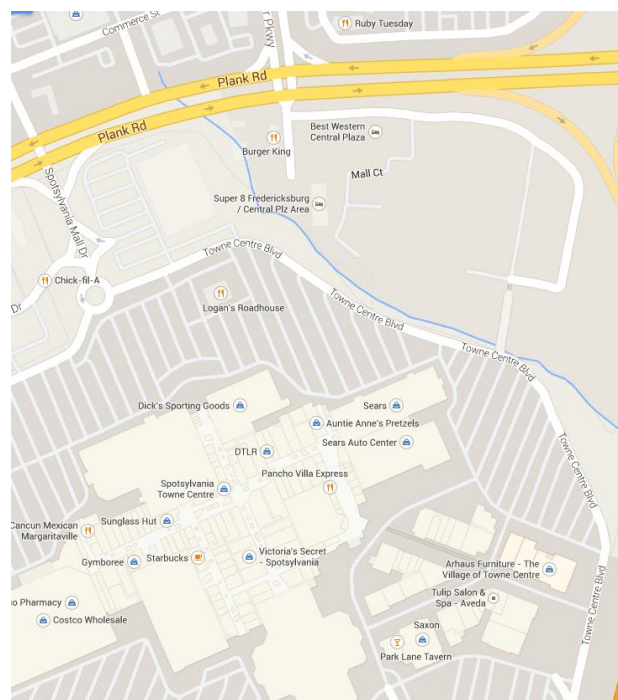
Order Coffee Cups with Chapter Logo: The Chapter will have some coffee cups with the new Chapter logo imprinted on them for mementos for our meeting speakers and for responding members, in the near future. If you would like us to include you on this order, contact Eileen McConkie (see front page). The approximate (at cost) price will be \$13 if you pick the cup at a meeting.

Stem Corner. The Central Rappahannock Regional Library has now opened "Idea Space" at 1616 Princess Anne Street, in Fredericksburg. They have *Maker Lab* items such as 3-D printers, laser cutters, and also an AV booth for use. See www.librarypoint.org/ideaspace, for more info and the limited hours of operation. POC: Dr. Greg Chambers

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.

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.



Science Fair Judges and Supporters: On March 5, 2022, the Chapter presented awards at the Virginia Piedmont Regional Science Fair (VPRSF).

The awards consisted of a certificate and check. The first place award was \$100, the second place was \$75 and third place award was \$50, along with Certificates. Dan Vavrick, Director and Science Fair Committee Chairman attended the Regional Fair as judge.

If interested in volunteering or wish for more information on opportunities to participate in Science events, please contact Dan Vavrick or any INCOSE Officer.

The Piedmont Regional Science Fair Web site address is <http://www.vprsf.org> (Mar 4th) to sign up to be a judge, The 2023 Virginia State web site is <http://www.vssef.org> (Apr 14 & 15th).

From the Desk of the Editor: If you are not on our Chapter's newsletter emailing list, please send me an email and I will make sure to get your name on the list. You will then get future newsletter and meeting announcements. My contact info is on front page.

Again, I 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.

I 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:

Feb 22 2023, 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

Mar 22, 2023, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; TBD; Topic: TBD; Coord: Eileen McConkie

Apr 26. 2023, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; TBD; Topic: TBD; Coord: Eileen McConkie

May 23. 2023, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; TBD; Topic: TBD; Coord: Eileen McConkie

Past Meetings and Events:

Nov 29 2022, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Quan Boatman Topic: Risk Management; Coord: Anthony Sirico

Oct 26 2022, 1800: Rescheduled: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Quan Boatman Topic: Risk Management; Coord: Anthony Sirico
Sept 28, 2022, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Dan Vavrick; Topic: Zr and Air Reaction after Impact Modeled with Modified Hydrocode CTH; Coord: Anthony Sirico

May 25 2022, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Rob Notman.; Topic: Take your Project Management knowledge and skills and find success in business ownership; Coord: Anthony Sirico

Apr 27 2022, 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: Anthony Sirico

Feb 23 2022, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Michael L. Orr.; Topic: The Challenges and Victories of Transitioning to Digital Engineering; Coord: Anthony Sirico

Nov 30 2021, 1730: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Byron Knight, PhD.; Topic: The Art of NRO Systems Architecting; Coord: Greg Chambers, PhD

Oct 13 2021, 1730: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; David Maurer, LTC; Topic: The Cuban Missile Crisis 1962; In Extremis Project Management; Coord: Greg Chambers, PhD

Aug 18, 2021, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Anthony Sirico; Topic: Machine Learning Techniques for Systems Engineering; Coord: Rod Cutright

Jun 23, 2021, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Eileen B. McConkie; Topic: Mathematical Properties of System Readiness Levels; Coord: Rod Cutright

Jan 15, 2020, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; Gordon J. Gattie; Topic: What Were You Thinking? Investigating Human Judgement Through Probabilistic Functionalism; Coord: Eileen B. McConkie

May, 21 2019, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; TBD; Topic: A General Theory of System Safety; Coord: Alan Brown

Mar 26, 2019, 1800: Chapter Dinner Mtg; Loc: Park Lane Tavern, Fredericksburg; Spkr.; George Meadows; Topic: From Virtual to Physical and Back Again: 3D printing and Augmented Reality; Coord: G Chambers