



The NorthCoast Interfacer

President's Corner



Many years ago, when I began my systems engineering journey, I took several classes at NASA taught by a Dr. Richard Evans, from George Mason University. Experiencing the recent power outages in the Cleveland area due to severe storms caused me to think back to those classes. When Dr. Evans would come to teach a class, he would often ask people who had previously taken the class to come back and share with the new class, a few of their take aways.

I had found over the years that taking a class (or other learning opportunity – presentations, conferences, etc.) was energizing and made me want to go back to my work area, share my new knowledge, and try to apply it. So, the illustration I used when talking to those in Dr. Evans' classes was a battery-powered light. Taking a class for me recharged the batteries that supplied power to that light. Over time, unless I took another class, my battery would run down, the light would flicker and go out.

As time permitted, I always tried to tie in to webinars, attend systems engineering related talks and attend chapter meetings. I also tried to attend INCOSE workshops and symposiums. You never know when you might learn something useful and if nothing else, it recharged my batteries.

Likewise, I would like to encourage you to find ways to recharge your systems engineering batteries, whether it is chapter meetings, INCOSE workshops, symposia, or webinars, or other learning opportunities. INCOSE recently released and is continuing to develop an online tool to help with learning. The Professional Development Portal (<https://www.incose.org/learn/incose-pdp>) is a comprehensive solution for Systems Engineers and other professionals who want to enhance their systems engineering knowledge and skills. There is also a competency assessment tool you can use to help guide your learning. The Professional Development Portal is a great resource available with your membership and if you don't know where to start to recharge you batteries, it might be the place.

I challenge each of you to stay curious and participate in our chapter meetings, events and activities, invite colleagues to attend with you, and encourage them to join INCOSE.

As usual, if you have any suggestions for chapter meeting topics, event, or activities, feel free to reach out to us.

- Dennis Rohn

2024 C-NO Chapter President

Chapter Meeting Recaps– C-NO Café #4 and #5

Our July Chapter meeting was held in Columbus, as an opportunity to meet members who live in the Columbus area. We had three members at two guests in-person in addition to those on-line. One of the guests is a professor at The Ohio State University and was a first-time attendee. There was a great discussion regarding system design, system analysis, and system implementation.

Our August Chapter meeting was led by Carl Dister and was held as a noontime meeting. Carl led us through discussions on integration, verification and validation. He talked about the distant past and current efforts, and gave us insights into potential approaches in the future.

Our next Chapter meeting is planned for September 9, 2024 at 6:00 PM. Watch for details to be sent via an Eventbrite email.

Don't miss out on this chance to expand your knowledge, share your experiences, and ask questions of like-minded professionals. We look forward to seeing you there. Consider inviting a colleague to join you and pass meeting information along to anyone else in your organization who may be interested.

Welcome to New Chapter Members

Welcome to new Chapter members since our last Newsletter! The Board of Directors hopes the Chapter can aid you in your professional development and looks forward to getting to know you.



- James Cooper
- Alex Erdman
- Mohammad Fahim Shahriar
- J Nicci Thomas

Get to know **James Cooper**: Jimmy Cooper attained his Bachelor of Science in Aerospace Systems Engineering in 2017 from the University of Akron and his Master of Engineering in Systems Engineering from Penn State University in 2023. He has worked as a systems engineer for Meggitt Aircraft Braking Systems (Akron, OH) and Bendix Commercial Vehicle Systems (Avon, OH), and currently works for General Motors (Milford, MI). He currently lives in Independence, OH with his wife, daughter and dog.

To all members, I would encourage you to invite co-workers and other systems engineers you know to join INCOSE and become active in the Chapter.

- Dennis Rohn
Cleveland-Northern Ohio Chapter Membership Chair

INCOSE 2025 International Workshop and 2025 International Symposium

INCOSE conducts two major event every year, the International Workshop and the International Symposium.

The 2025 International Workshop is scheduled for February 1-4, 2025 in Seville, Spain. More details can be found at the website (<https://www.incose.org/IW2025>) as they become available. The Workshop centers around technical working groups and other business meetings.

The INCOSE symposium has a rich history that dates back to 1991, and has continued uninterrupted every year to the present. INCOSE's Annual International Symposium is the largest worldwide annual gathering of people who do systems engineering. While the International Workshop tends to be working meetings, the International Symposium is focused on presentations of papers. The call for papers comes out in the fall and papers are due around the end of the year. One way to get involved if you don't want to write a paper, is to become a paper reviewer. They are always looking for more reviewers, and it doesn't require attending the Symposium to be a reviewer. The 2025 International Symposium will be held July 26-31, 2025 in Ottawa, Canada (<https://www.incose.org/symp2025>).

Virtual options are provided for both, if you cannot attend in person.

The INCOSE Systems Engineering Journal



One of the INCOSE member benefits, is the opportunity to read articles in the INCOSE Systems Engineering Journal. It is an international scholarly journal and a primary source of multidisciplinary information for the systems engineering and management of products and services, and processes of all types. The issues can be accessed via: <https://incose.onlinelibrary.wiley.com/journal/15206858>, after logging in to the INCOSE domain.

The following articles can be found in the July 2024 issue.

- REGULAR ARTICLES
 - Leveraging epoch-era analysis and digital twin for effective system concept and execution: A CO2 storage salt-cave project
 - Systemic innovation for countering violent radicalization: Systems engineering in a policy context
 - Mapping industry workforce needs to academic curricula – A workforce development effort in model-based systems engineering
 - Model-based user experience-focused roadmapping
 - The SoS conductor: Orchestrating resources with iterative agent-based reinforcement learning
 - Model-based analysis and specification of functional requirements and tests for complex automotive systems
 - Impact of graph energy on a measurement of resilience for tipping points in complex systems

- Enhancing conceptual models with computational capabilities: A methodical approach to executable integrative modeling
- REVIEW ARTICLES
 - Path to modeling dynamic performance shaping factors in nuclear power plants operation – A review
 - Challenges for trustworthy autonomous vehicles: Let us learn from life

Volunteer Opportunities

In the last two newsletters, we mentioned that there are opportunities for individuals to get involved with the Chapter. Some of those opportunities can be one-time efforts, or on-going small efforts. Some examples include: coordinating a chapter meeting location, coordinating food for a chapter meeting, preparing this newsletter, writing an article for this newsletter, leading a discussion at a chapter meeting. There are many more.



There are four needs to highlight here:

1. The Chapter Bylaws require a review periodically to see if any updates are needed. This review has begun, but more members are welcome. Contact Amber Waid, Chapter Vice-President, if interested.
2. Next month a Nominations and Elections Committee will be established to run the election process for 2025 Chapter officers. One member has typically taken this on, but it would be good to have additional helpers.
3. That Nominations and Elections Committee will be looking to put a slate of officers together for 2025. Please consider filling one of these vital roles. At least two current officeholders do not intend to run again, so we definitely need additional folks to step up. Information on the roles can be found in the Bylaws and Operating Plan, or by contacting Dennis Rohn. Watch for a call from the Nominations and Elections Committee in September.
4. Just as important, are other non-elected positions in 2025. We have been without a Program Chair and a Communications Chair in 2024 and would be good to fill these in 2025. It is also time to start thinking about identifying an assistant webmaster, who could take over in the future.

The Board would welcome anyone interested in giving a hand. Contact us if interested. As the idiom goes, many hands make light work.

Associated Groups

As has been mentioned, the Chapter is an Affiliate Member of the Cleveland Engineering Society. They have an event coming up later this month that may be of interest. On August 28, as part of their Leadership Breakfast Series, they will have guest speaker Michael O'Donnell - MAGNET COO, VP Operations and Innovation, who will talk on Blueprint for Manufacturing Success. For more information, see: <https://www.cesnet.org/events-2-1/leadership-breakfast-3>.

They are also offering a tour of the NASA Neil Armstrong Test Facility in Sandusky on Tuesday, September 17. For more information, see: <https://www.cesnet.org/events-2-1/industry-tour-nasas-neil-armstrong-test-facility>.

The Chapter is also looking to strengthen a connection with the Project Management Institute Northeast Ohio so we will be trying to pass along information on their events. They have several events coming up, including: Apex Leadership and Technology Webinar Series: How to Coach Employees while Meeting Deadlines; Leading Agile Transformation with Discipline; and Great Lakes Brewery Tour. More information can be found on their website: <https://pmineo.org/>.

Welcome Center Cafes



Do you ever wish you knew a little bit more about INCOSE? Whether you are a new member or have been a member for several years, you might want to check out the New Member Welcome Center Cafes archives. This is program featured topics each month to introduce our new members to various communities, initiatives, and individuals that make INCOSE thrive and are now available to be replayed.

Details can be found at: <https://www.incose.org/engage-with-incose/new-member-welcome-center>. If you want to see past cafes, they can be found in the New Member Welcome Center Cafe Archive (<https://www.incose.org/engage-with-incose/new-member-welcome-center/new-member-welcome-cafe-archive>).

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