

INCOSE Canada Chapter Member Newsletter - March 2025



In this newsletter

Highlights

- [INCOSE Canada Student Competition - call for Judges and Sponsors!](#)
- [SEP Study Group](#)

Upcoming Events

- [April 14th - Webinar: A Systems Engineering Approach to Functional Perseverance](#)

INCOSE Canada Student Competition

In preparation of the INCOSE Canada Chapter Student Competition, we are looking for volunteers as **Selection Committee judges** and **Sponsors**. If you are interested, please contact: [Qifang Wang](#).

Selection Committee Judges

Eligibility:

- Membership in the INCOSE Canada Chapter
- INCOSE certification (ASEP, CSEP, or ESEP)

Time commitment (throughout 2025):

- 1-3 hours to review submissions
- 9 hours to attend mentorship sessions and support students (optional)

Benefits:

- Professional Development Units (PDUs)
- Invitation to join mentorship sessions and interact with students

Sponsors

Sponsorship Levels:

- Bronze: 500 CAD

- Silver: 1000 CAD
- Gold: 2000 CAD
- Platinum: 3000 CAD

Benefits:

- Enhanced Brand Visibility: Sponsors gain prominent exposure to a wide audience, including students, educators, and industry professionals.
- Community Engagement: Sponsorship demonstrates a commitment to supporting education and the local community, enhancing your company's reputation.

INCOSE Student Competition 2025

Systems Engineering Professional (SEP) Study Group

We are pleased to announce that the INCOSE Canada Chapter has kicked off a Systems Engineering Professional (SEP) Certification Study Group in collaboration with the Seattle Metro and San Francisco Bay Area Chapters. Participants will engage in a series of educational sessions over 13 weeks to study the Systems Engineering Handbook v5 alongside fellow members.

Please note that the first Study Group of 2025 is now full, and we are no longer accepting new applicants. However, if there is sufficient interest, the Canada Chapter will organize another Study Group in Q3 2025. If you are interested, please email [Arman Nikkhah](#), the SEP contact person for the Canada Chapter, to express your interest.



Aligned with the Canada Chapter's Strategic and Operational Plans, we are happy to announce that while program funds last for 2025, we are supporting Canada Chapter members with a SEP certification award.

Learn More

Upcoming Event

Webinar: When Malicious Actors Control Your Subsystems: A Systems Engineering Approach to Functional Perseverance. This session will be presented by

Date: Mon, Apr 14, 2025

Time: 8:00 PM - 9:15 PM EDT

Presenters: David Hetherington and Ivan Taylor

Abstract: Security is essential for modern engineered systems. Systems engineers must ensure operational integrity despite threats. This presentation explores how System-Theoretic Process Analysis (STPA) and System Dynamics (SD) enhance security-aware engineering. We address resilience as a system property, ensuring function under adversarial conditions. Adaptive redundancy models and failure response strategies mitigate threats while maintaining capacity. The framework helps engineers quantify trade-offs, design adaptive security mechanisms, and integrate security into system functionality



David Hetherington
Principal,
System Strategy Inc.

Ivan Taylor
President,
Policy Dynamics Inc.

Register Now!

Interested in presenting at one of the Canada Chapter's events? Contact us at canada@incose.net. As a presenter, you'll receive a certificate of appreciation and a gift certificate from the INCOSE Canada Chapter in recognition of your contribution.

2025 Year in Review

Past Events

- **Webinar - January 13th:** David Long, INCOSE Director for Strategic Integration, presented "Systems Engineering Vision 2035," outlining the future of systems engineering and INCOSE's strategic plan.
- **Webinar - January 20th:** Stéphane Lacrampe, co-founder of Obeo, introduced SysON, an open-source SysML v2 modeling tool, showcasing its potential for digital engineering transformation.
- **Webinar - February 10th:** Prof. Alex Ellery discussed lunar industrialization with self-replicating machines and in-situ resource utilization, highlighting new possibilities in space exploration.
- **Webinar - March 17th:** Shahram Pourazadi, Technology Entrepreneur and IP Specialist, discussed building IP portfolios and commercialization strategies. He highlighted the use of Model-Based Systems Engineering (MBSE) to enhance IP and technology management for high-tech companies.

View Event Recordings

Past Newsletters

Spotlight

Do you know someone who deserves recognition or have an article you'd like to share? We want to hear from you! To get featured in our next newsletter, contact us at canada@incose.net.



The International Council on Systems Engineering (INCOSE) is a not-for-profit membership organization founded to develop and disseminate the trans-disciplinary principles and practices that enable the realization of successful systems. INCOSE is designed to connect systems engineering professionals with educational, networking, and career-advancement opportunities to develop the global community of systems engineers and systems approach to problems. We also focus on producing state-of-the-artwork products that support and enhance this discipline's visibility worldwide.