

INCOSE CHICAGOLAND

November 10, 2022







INCOSE Chicagoland Chapter Meeting Agenda

November 10, 2022

Please MUTE your phone







Agenda

- 6:30 7:00 PM CT Welcome and Announcements
- 7:00 9:00 PM CT Guest Speaker



CHICAGOLAND



NEW SCHAUMBURG MEETING LOCATION



1501 Woodfield Rd Suite 300N, Schaumburg, IL 60173



Actalent is an operating company of Allegis Group, the global leader in talent solutions.

www.ActalentServices.com



CHICAGOLAND



Actalent at a Glance











150+ Offices 20
Delivery Centers
Across North America,
EMEA, APAC and India

Capabilities

Sciences

- Healthcare +
- Clinical Research +
- Laboratory Sciences +

Engineering

- Power & Utilities +
- Software & Systems +
- Product & Manufacturing +
- Construction Management +
- Environmental, Architecture + & Civil

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CHICAGOLAND



Actalent Solutions

Workforce Solutions and Services that Make an Impact



Contract Talent

Gain access to the right expertise with an Actalent Contract Talent solution. Whether you're looking for a partner to contribute to a critical project, support a business expansion or you lack a certain capability in-house, we help you get the work done. We keep our consultants engaged and offer continuous learning opportunities to hone their skills, so they are ready for the next big assignment.



Engineering & Sciences Services

Transformation is constant and fueled by experts passionate about change. Actalent provides comprehensive Engineering, Laboratory, and Clinical Services to help advance the future. When you require specific technical or scientific expertise or an operational end-to-end solution, our people answer the call. Flexible delivery models ensure you have the support where and when you need it to achieve your goals.

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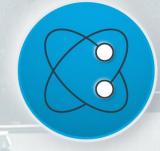
bb7 is excited and honored to host the June INCOSE event at our corporate headquarters located at 5407 Fen Oak Drive in Madison, WI.

YOUR BIG IDEA JUST GOT REAL

bb7 CAPABILITIES



+





DESIGN

DISCOVERY + RESEARCH + TREND ANALYSIS + UI/UX

ENGINEERING

MECHANICAL + ELECTRICAL + EMBEDDED SYSTEMS

TECHNICAL TALENT

ACCESS TO TOP TALENT + CUSTOMIZED SOLUTIONS

PROTOTYPING + TESTING

MODEL MAKING + CUSTOM TESTING + FABRICATION

OUR PASSION IS CRAFTING
TRANSFORMATIVE PRODUCTS
FROM GREAT IDEAS.

WE ARE AN INNOVATIVE PRODUCT
DEVELOPMENT FIRM THAT
TRANSFORMS PROBLEMS INTO
PROFITABLE PRODUCTS.

[SO 9001:2015

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Get to Know Your Fellow Chicagoland SEs

Please participate in a short poll

INCOSE: A Better World Through a Systems Approach

The global professional association for systems engineers



International Council on Systems Engineering
A better world through a systems approach

www.incose.org





VISION: A better world through a systems approach

MISSION: To address complex societal and technical challenges by enabling, promoting, and advancing Systems Engineering and systems approaches

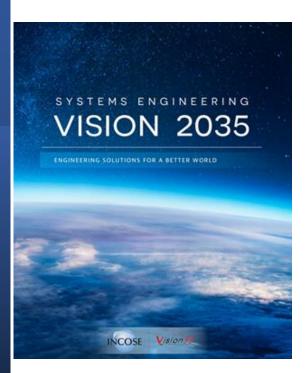
OBJECTIVE: Global leader for systems engineering professionals for career development

FUTURE: Lead the future of systems engineering, academically, in emerging domains, and in practice





Systems Engineering Vision 2035



incose.org/sevision

INCOSE-sponsored SE Vision 2035

- produced by leaders from systems community
- inputs from across industry, academia, and government

SE Vision 2035 addresses

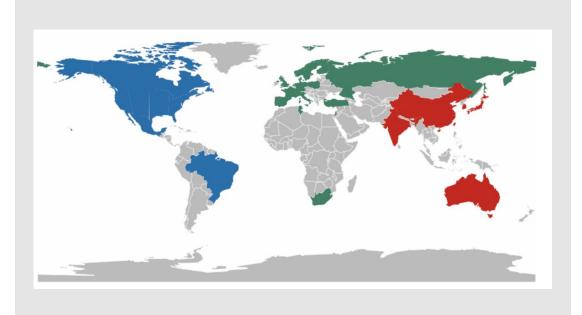
- Global Context for SE
- Current State of SE
- Future State of SE
- Realizing the Vision

Please work with INCOSE to help realize this vision.

Complete SE Vision 2035 available as website and pdf www.incose.org/sevision.



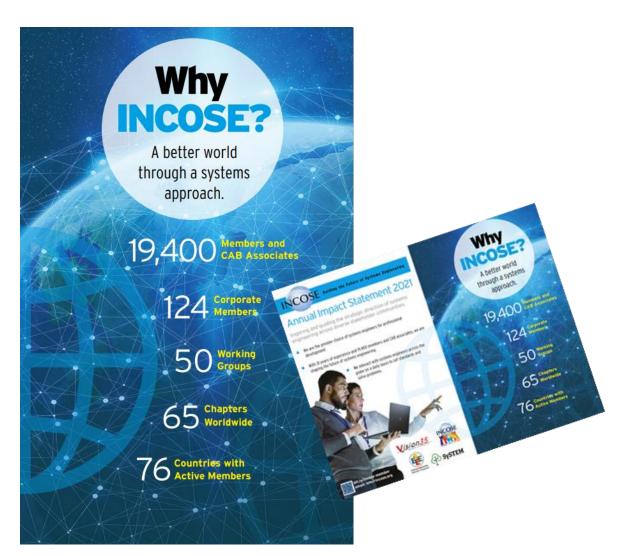
INCOSE: The International Council on Systems Engineering



- Connect systems engineers professionals
- Educational tools
- Resources they need
- Networking events
- Virtual platforms
- Handbooks and publications
- Career development
- Advancement through products and services
- Developing global community
- Problem solving through systems approaches
- Forward thinking
- State-of-the art
- Certification









Why Join INCOSE?

INCOSE – global SE professional society

 providing opportunity for lifelong learning in systems approaches

Community of peers, resources for your career, and a place to be a leader

INCOSE members stand out and are often sought after **experts**. They learn from each other.

INCOSE members create **products**, produce **events**, represent in international forums

INCOSE members increase body of knowledge, advance practice of SE

Network with over 19,000 members in 76 countries

Increase your professional stature with INCOSE SE Professional **Certification**





Chapters and Working Groups (WG)

- Connecting people the heart of INCOSE
- Best ways to increase your circle of influence or work on an issue
 - INCOSE Chapters
 - Working Groups











Benefits of INCOSE Membership

Professional Development (cont.)

3. Recordings of speakers at Chapter Meetings from previous months

Log in first, then go to Library and Resources tab of our home page Library and Resources incose.org/incose-member-resources/chapters-groups/ChapterSites/chicagoland/library-and-resources G interstate aircraft d... a Finding and Testing... Noise & Vibration... An Appliance Noise... Other bookmarks Collaboration Store Welcome, MIKE > **Q** Search Portal "Connect" Chicagoland Chapter Home **Chapter News** Library and Resources ▼ **About This Chapter Chapter Events** Chapter Recorded Presentations (Archives) The table below includes a history of INCOSE Chicagoland Chapter meetings, starting in 2013. Presentation Agenda Recording Flyer Date **COMING SOON** 2020 July 16 Innovation and National Flyer-July 2020 Coming Soon 2020 June 18 View Recording Security: Participation Flyer-June 2020 Agenda-June 2020 2020 May 21 and Secrecy FTA Presentation Agenda - May 2020 See below 2020 May 21 Asking Questions: A RiskMgmtWG_May Agenda - May 2020 View Recording Critical Soft-Skill for 2020



INCOSE CAB is Voice of Customer to INCOSE leadership.

CAB strategically guides technical leadership, leading to INCOSE products and influence to standards



WHY JOIN THE INCOSE CORPORATE ADVISORY BOARD?

- Allows your organization to guide direction of SE
- Employees gain access to state-of-the-art products
- Align with fellow industry leaders, grow your global footprint
- Learn how other industry leaders apply SE to solve business problems
- Gain better access to talent through your INCOSE network





Academic Council

Branch of the
Corporate Advisory
Board facilitating
discussion and
exploration of issues
relevant to academia
and strategic
collaborations within
INCOSE.

A well-educated workforce is key to Global Prosperity

Council member organizations offer bachelors, masters, and doctorate degrees in systems engineering and related programs.

Active in advancing the state-of-the-art of systems engineering through academic programs.



INCOSE Student Divisions

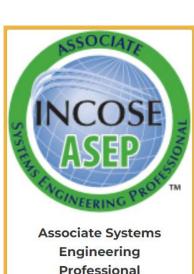
- Undergraduate / graduate students enrolled in accredited curriculum
 - Want active involvement in INCOSE

Student Divisions operate under INCOSE chapter, require:

- 1) interested student body,
- 2) faculty member and member of INCOSE willing to act as Division mentor and, and
- 3) active sponsorship and participation by INCOSE chapter



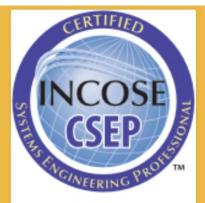
Certification



Professional

College students and those new to systems engineering may be qualified as Associate Systems Engineering Professionals (ASEP).

LEARN MORE



Certified Systems Engineering Professional

Working engineers who can perform independently in a variety of systems engineering functions can be recognized as Certified Systems Engineering Professionals (CSEP).

LEARN MORE



Expert Systems Engineering Professional

Individuals who solve the most challenging, technical problems and are seen as leaders in their community can become Expert Systems Engineering Professionals (ESEP).

LEARN MORE









SEP Certification Mentors

If:

- you are an INCOSE member, and
- you are interested in becoming certified as a Systems Engineering Professional (SEP), and
- you have questions about the certification process

Then:

 you can contact one of our SEP Certification Mentors for assistance in getting your questions answered:

INCOSE Member	SEP Level achieved	Email Address
Steve Perich	CSEP	chitownse2@yahoo.com
Russell Kubycheck	CSEP	crk022@gmail.com
Chris Freund	ASEP	cfreund7@gmail.com

Conferences and Connections









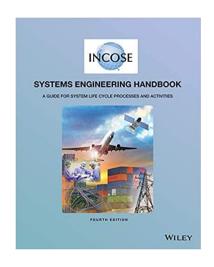
• https://www.incose.org/events-and-news

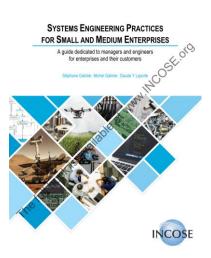


Publications









https://www.incose.org/products-and-publications/se-handbook



INCOSE Foundation

Committed to rewarding skills through scholarships for those engaged in finding solutions to complex technical challenges at all stages of their education or career.



Offers possibilities for people to pursue goals that anticipate the future – for them and for the world.



Scholarships Include:

ISEF, the International Science and Engineering Fair INCOSE Award to a precollege student

The Chesapeake Chapter Award

The Stevens Doctoral Award for Promising Research in Systems Engineering to a PhD Candidate

The James E. Long Award for Post Doctoral work



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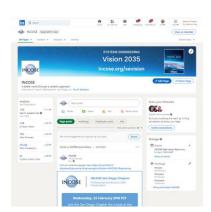
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- LinkedIn Group: <u>https://www.linkedin.co</u> m/groups/7499834/
- Facebook
- Twitter
- Instagram
- More to come













Membership Benefits



A global network of colleagues who understand systems engineering



Certification opportunities



Access to quarterly ePublications, INSIGHT and Journal of Systems Engineering



Electronic version of the Systems Engineering Handbook



Collaborate with experts and practitioners worldwide



Exclusive access to INCOSE Connect, the collaborative space for **INCOSE** Members Only



Member discounted registration to the International Workshop and International Symposium.





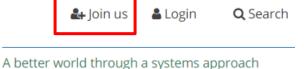




How to Join INCOSE

- 1. Go to www.incose.org
- 2. Click on "Join us"





- Provide information, including your company / institution. This helps the chapter identify programs that will be of interest to
- the greatest number of chapter members.
- 4. Select chapter affiliation "Chicagoland"
- 5. Pay \$160 for 1-year membership (or select a longer term at a lower rate)
 - Student membership \$50

Refer a new member? Get an Amazon gift card!

Email Mike Gut, Chicagoland's Secretary, at gut_mike@hotmail.com







UPCOMING INCOSE EVENTS







Upcoming Board Meetings Board Meetings on the first Thursday of each month

- Meetings are open to all members
- Next meeting: Wednesday, Dec 1, 7:00 9:00 PM CT (virtual mtg - attend via web conference)
- Plenty of opportunities to get involved!
 - Leadership and contributor opportunities available
 - Join us!

Interested in helping out?

Contact: John Bayless, Chapter President, via email: john.bayless@brunswick.com







2023 Elections Are Coming...









Upcoming Chapter Meetings Chapter Meetings on the third Thursday of each month

 Dec 15, Granite City, Schaumburg, IL







INTRODUCTIONS







Personal Introductions

Stay muted, then unmute when you want to speak, then mute yourself when finished

- Name, Title & Company / locale
- Are you an INCOSE member, and if so, for how long?
- Job opportunities at your company, if any, or announce if you are looking for an opportunity







FEATURE PRESENTATION









<u>Topic:</u> Future of Workforce <u>Presenter:</u> Dejan Milojicic

Distinguished technologist & director Hewlett Packard Labs

<u>Presentation Site</u>: Onsite Actalent + Online

Agenda: 6:30 - 7:00 PM CT - Announcements & Introductions

7:00 - 7:15 PM CT - Working Group Update, Dale Brown Co-chair INCOSE Transportation WG

7:00 - 8:15 PM CT - Feature Presentation and Q&A

Abstract

The pandemic has created STRESS on current existence, values, and daily lives, global work organization, privacy vs. societal benefits, supply chain logistics and much more. Acceleration of the Digital Transformation was forced upon work, education, and private life. In many cases, it was not an acceleration, rather a Digital Crutch that will be discarded as soon as conditions allow. In other cases, change will stay with us well beyond the pandemic. Technologies increasingly play a crucial role and are becoming essential for our survival. Predicting Future of Workforce (FoW) help address the pandemic, but it goes well beyond that. It helps rebalancing the workforce demand and supply, work-life balance, ecological, economical and social changes we undergo.

This presentation discusses issues and technologies that impact the future of the workforce at the corporate and regional scale as well as effects on individuals. The panel addresses personal technologies, automation, technology infrastructure, and security. Outcomes from 10 globally held workshops engaging high-profile individuals from industry, government, and academia are presented, predicting the direction of how the workforce will evolve due to pandemics and beyond. Recommendations to industry, legislators, academia, and professional organizations to consider when planning for the future of workforce are discussed.

About Our Speaker

Dejan Milojicic is a distinguished technologist at Hewlett Packard Labs, Milpitas, CA. He leads research on Future Architectures and is the Principal Investigator of the Heterogeneous Serverless Computing that spans all Hewlett Packard Labs. Earlier he has led the software of the Dot Product Engine, an in-Memory AI accelerator. In his lengthy HP(E) career, he contributed to numerous research efforts spanning software, distributed computing, systems management, and HPC. Dejan led large industry-government-academia collaborations, such as Open Cirrus for the HPC in Cloud program and New Operating System for The Machine program. Dejan has written over 200 papers, 2 books and 79 patents. Dejan is an IEEE Fellow, ACM Distinguished Engineer, and HKN and USENIX member. Dejan was on 8 PhD thesis committees, and he mentored over 50 interns. He founded and taught Cloud Management class at San Jose State University.

Dejan was president of the IEEE Computer Society (2014), IEEE presidential candidate (2019), editor-in-chief of IEEE Computing Now and IEEE Distributed Systems Online and he has served and continues to serve on many editorial boards, technical program committees and steering committees. Previously, Dejan worked in the OSF Research Institute, Cambridge, MA and Institute "Mihajlo Pupin", Belgrade, Serbia. He contributed to novel systems software and parallel and distributed systems that were deployed throughout Europe. Dejan received his Ph.D. from the University of Kaiserslautern, Germany; and his MSc/BSc from Belgrade University, Serbia.