



INCOSE Chicagoland Chapter Monthly Chapter Meeting Agenda

July 15, 2021

Please MUTE your phone



Agenda

- **6:30 – 7:00 PM CT** – Welcome, Announcements, Intros
- **7:00 – 8:30 PM CT** – Feature Presentation
Reaching MBSE Adoption Maturity with System Modeling and Simulation
Dr. Saulius (Saul) Pavalkis
MBSE Transformation Leader and Senior Consultant
at Dassault Systems



MEMBERSHIP



New Members

Welcome to New Members within the last month!

Matthew Derdak

Matthew Taylor



Renewing Members

Thank You for renewing your membership

<u>Name</u>	<u>Company/Institution</u>
Subramanian Arunachalam	CNH Industrial America
Bob Barrett	Intertech Engineering Associates Inc.
Zhongmin Du	Eaton
Bela Kiraly	Natus Medical
Thomas Phillip	AriensCo
Matthew Taylor	ManTech International Corporation



Benefits of INCOSE Membership

Professional Development

1. **Monthly speakers at Chapter Meetings** on topics relevant to System Engineering (later in this meeting)
2. **INCOSE Virtual Community.** Participate live or view recorded meetings with recognized Systems Engineering experts.

SEPs can earn PDUs for attending!



INCOSE Systems Exchange Cafés



INCOSE Webinar Showcase

incose.org/about-incose/community

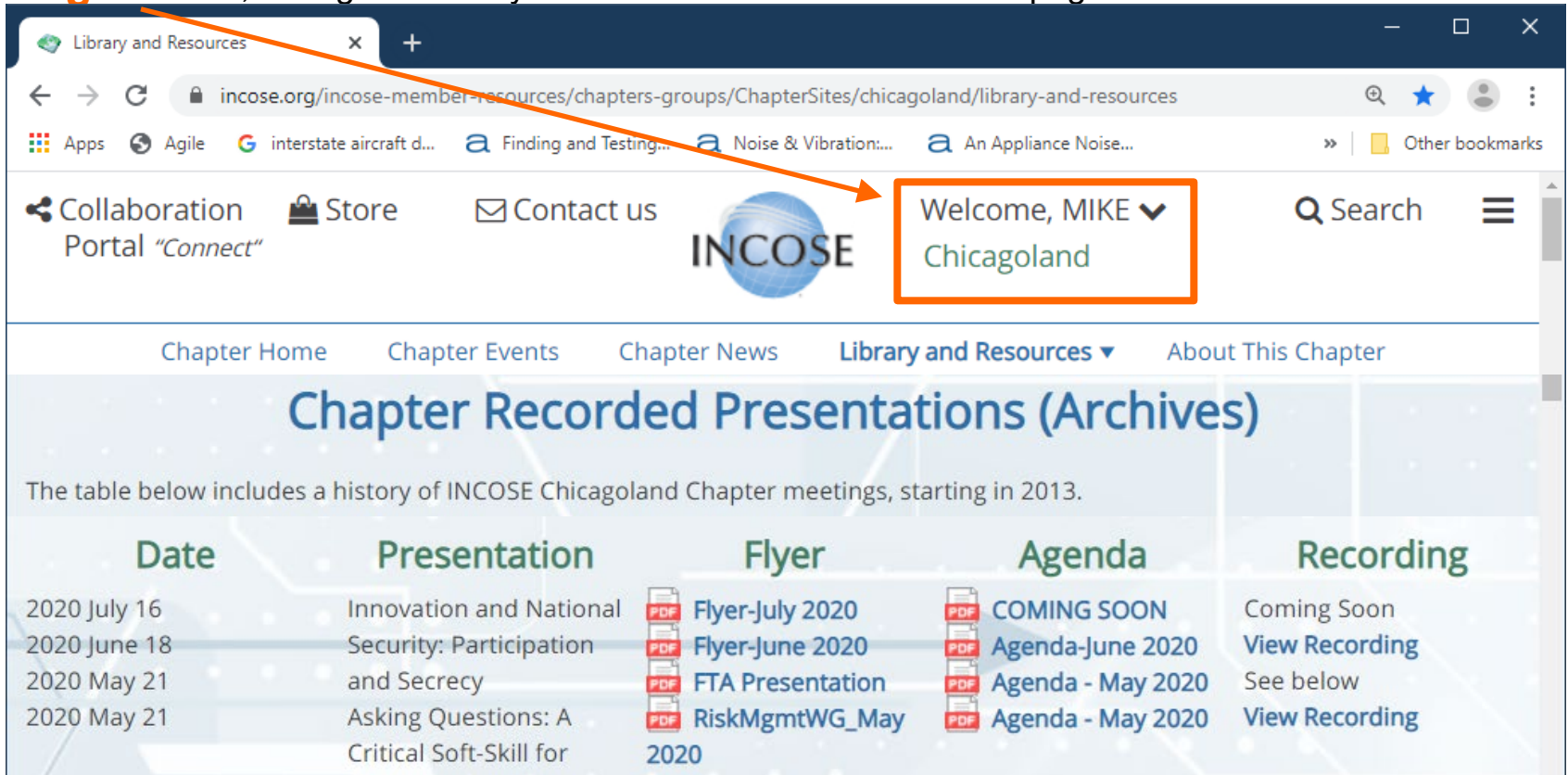


Benefits of INCOSE Membership









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



The screenshot shows a web browser window with the URL incose.org/incose-member-resources/chapters-groups/ChapterSites/chicagoland/library-and-resources. The page features a navigation bar with links for Collaboration Portal "Connect", Store, Contact us, and the INCOSE logo. A user is logged in as "MIKE" under the "Chicagoland" chapter, which is highlighted with an orange box. The "Library and Resources" tab is selected in the main navigation. Below the navigation bar, the page title is "Chapter Recorded Presentations (Archives)". A text block states: "The table below includes a history of INCOSE Chicagoland Chapter meetings, starting in 2013." The table below lists the following data:

Date	Presentation	Flyer	Agenda	Recording
2020 July 16	Innovation and National	 Flyer-July 2020	 COMING SOON	Coming Soon
2020 June 18	Security: Participation	 Flyer-June 2020	 Agenda-June 2020	View Recording
2020 May 21	and Secrecy	 FTA Presentation	 Agenda - May 2020	See below
2020 May 21	Asking Questions: A	 RiskMgmtWG_May 2020	 Agenda - May 2020	View Recording
	Critical Soft-Skill for			



Benefits of INCOSE Membership (Cont.)

Professional Development (cont.)

4. Access to INCOSE Periodicals:

Digital versions are included with your membership. All published 4 times per year.

a) Systems Engineering (SE) Journal

Systems Engineering, INCOSE's scholarly journal, is a primary source of multidisciplinary information for the systems engineering and management of products and services, and processes of all types.

Members may access the journal online at the [Wiley InterScience - Systems Engineering](https://onlinelibrary.wiley.com/journal/15206858) site: <https://onlinelibrary.wiley.com/journal/15206858>

b) INSIGHT Magazine

INSIGHT is the Practitioners' Magazine of INCOSE.

Members may access the magazine online at the Connect site: <https://connect.incose.org/Library/InsightMagazine/default.aspx>

c) INCOSE Members Newsletter

Emailed out to members each quarter.



Benefits of INCOSE Membership

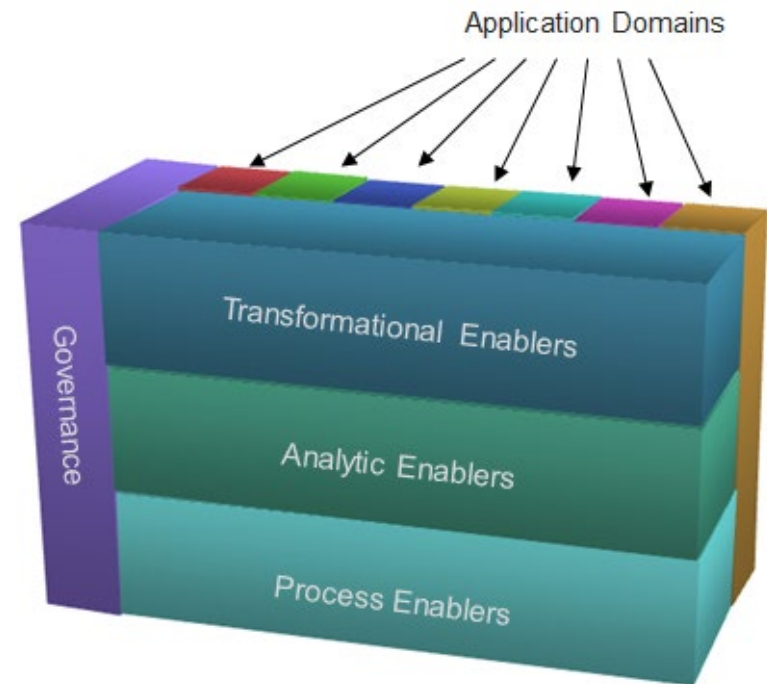
Professional Development (cont.)

5. Access to the output of **50 INCOSE Working Groups**

<https://www.incose.org/incose-member-resources/working-groups>

Just a few examples:

- Automotive
- Defense Systems
- Configuration Management
- Healthcare
- Risk Management
- Integration, Verification & Validation
- Small Business Systems Engineering
- Space Systems
- Value Proposition Initiative





Benefits of INCOSE Membership (Cont.)

Professional Development (cont.)

6. INCOSE Connect: content developed by Chapters and Working Groups
(Click on “INCOSE CONNECT” on the Chapter’s home page)



7. System Engineering Certification (ASEP, CSEP, ESEP)
(Click on “SEP Certification” on the Chapter’s home page)





Benefits of INCOSE Membership (Cont.)

Professional Development (cont.)

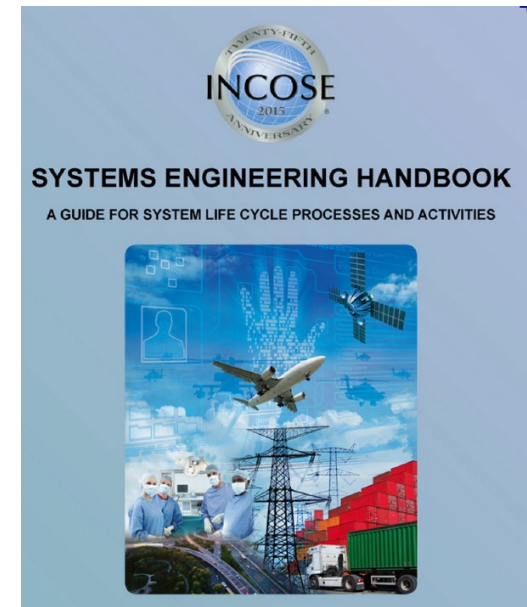
7. Access to the INCOSE Store for discounted and **free** publications:



Current texts on Systems Engineering, including

- Systems Product Line Engineering Handbook
- Guide for Writing Requirements
- System of Systems Primer
- Product Line Engineering Primer
- Systems Engineering Handbook

Free to download





Benefits of INCOSE Membership (Cont.)

Professional Development (cont.)

8. Access to Tweets on **new job leads** (from Chapter web site):

Missing out on chapter news, events and promotions? Get on our [email list](#)!

Have a question for the INCOSE Chicagoland Chapter? email us at incose.chicago@gmail.com



9. Access to INCOSE's **System Engineering Job Board**:

<http://incose.careerwebsite.com/>

10. Free Resume Review Service

Email your resume to incose.resume@gmail.com for a review by Systems Engineering managers.



Benefits of INCOSE Membership (Cont.)

11. Networking Opportunities

18,000+ INCOSE members worldwide

Networking for yourself and for employees!

- Before and after Chapter events

- Supporting your Chapter

- Supporting a Working Group

- Workshops/Symposiums

- Share SE Job postings at meetings & in members-only e-mail

12. Leadership Opportunities

Chapter Board of Directors (listed on Chapter website, under 'About This Chapter')

Chapter Committee participation

- Micro-volunteering Roles Available**

- (Roles as small as data entry or company networking)

Working Group participation (Two board members co-chair working groups!)



Benefits of INCOSE Membership (Cont.)

13. Helping Others

- Share SE knowledge/experience with:
 - New SEs
 - Professional Societies
 - K-12, college students
- Advance the art/profession of Systems Engineering
- Establish your brand
- “Pay It Forward”



How to Join INCOSE

1. Go to www.incose.org
2. Click on “Join us”
3. 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 Richard Matt, Membership Chair, at richard.matt@incose.org



A better world through a systems approach



SE CERTIFICATION



Three SE Certification Levels



If you have just started practicing – or want to start practicing – systems engineering, then ASEP is for you. This certification is for people at the beginning of their career as a systems engineer. The ASEP has “book knowledge” but not yet significant experience as a systems engineer.



If you are a practicing Systems Engineer with more than five years of systems engineering professional work experience, then CSEP is for you.



If you are a systems engineering leader with recognized systems accomplishments and have many years of systems engineering professional work experience, then ESEP is for you.

For more information on SE Certification, go to:

<https://www.incose.org/systems-engineering-certification/>



SE Certification Levels for experienced practitioners



**WE KNOW A THING OR TWO BECAUSE
WE'VE SEEN A THING OR TWO.**



Certification provides a means to be recognized for your knowledge and years of SE experience.



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
Chris Freund	ASEP	cfreund7@gmail.com



CHAPTER CIRCLE AWARDS



Circle Awards Program

- Incentive program to encourage Chapter activities that support the objectives of INCOSE
- The Chicagoland Chapter has been awarded the **GOLD** Award for 2020 !
- Chapter history: Platinum 2017 & 2019, Gold 2018, 2016 to 2012, Silver 2011, Bronze 2009



2020



2017
2019



2018
2012-2016



2011



2009



NEW SCHAUMBURG MEETING LOCATION

Actalent (formerly Aerotek's Engineering and Sciences divisions and EASi)



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

starting date pending



actalentservices.com



VOLUNTEER OPPORTUNITIES



Volunteer Opportunities

These positions are open

Ambassador (for your company)

Volunteer Coordinator

Interested in helping out?

Contact: Mike Gut, Chapter President, via email:

mike.gut@incose.org



Call for Presenters and Topics

Have a particular SE technique you would like to share?

Would you like to showcase how SE is used at your company?

Are there SE tools and skills that would benefit your career?

Let us know!

Contact Gary Oswald, Program Chair:

oswaldgary33@gmail.com



UPCOMING INCOSE EVENTS



Upcoming Board Meetings

Board Meetings on the first Thursday of each month

- Meetings are open to all members
- Next meeting: Thursday, **August 5**, 7:00 – 9:00 PM CT
(virtual mtg - attend via web conference)
- Plenty of opportunities to get involved!
 - Leadership and contributor opportunities available
 - Grow your networking!

Interested in helping out?

Contact: Mike Gut, Chapter President, via email:

mike.gut@incose.org



CHICAGOLAND



31st Annual
international symposium

Virtual Event
July 17 to 22, 2021

incose.org/symp2021



CHICAGOLAND



31st Annual international symposium

DEVELOP AND DISSEMINATE the transdisciplinary principles and practices that enable the realization of successful systems

CONNECT systems engineering professionals with educational, networking, and career-advancement opportunities

Technical program

6 Days, 5 Tracks, 4 Keynotes, 95+ Presentations, Panels, Tutorials and More!



24 Application Domains

Top Domains : Defense, Enterprise SE, Aerospace, Academia, Automotive, Social/Sociotechnical and Economic Systems, Industry 4.0 & Society 5.0, Biomed/Healthcare/Social Services, Infrastructure, Oil and Gas



39 Topics Represented

Top Topics : System Architecture/Design Definition, MBSE, Systems Thinking, Needs and Requirements Definition, Modeling/Simulation/Analysis, Processes, Systems of Systems, Resilience, decision Analysis and/or Decision Management, Complexity, Product Line Engineering, Project Planning, Project Assessment, and/or Project Control, Technical Leadership, Verification/Validation, System Security, Measurement and Metrics, Artificial Intelligence, Machine Learning



11 Panels

Including Topics Like These Discussed With Global Leaders in Systems Engineering, Academia, Defense, Industry 4.0 & Society 5.0, Enterprise SE, Aerospace



9 Tutorials

Including Topics Like These Discussed With Global Leaders in Systems Engineering, Enterprise SE, Defense, Aerospace, Automotive, Biomed/Healthcare/Social Services, Industry 4.0 & Society 5.0



CHICAGOLAND



31st Annual
international symposium

Tutorial pass – up to 2
tutorials for \$100

Tutorials

Sat/Sun Morning 0800-1200 EDT

Artificial Intelligence for Systems Engineers: Going Deep With Machine Learning and Deep Neural Networks. Barclay Brown - Ramakrishnan Raman - Ali Raz

From Operational Concept Development to Systems Architecture Definition with SysML and MBSE Grid approach. Aurelijus Morkevicius - Aiste Aleksandraviciene

Overview of the INCOSE SE Handbook Version 4.0. John Clark - Gabriela Coe

Handling Organizational Complexity. Dean Beale

Introduction to Model Simulation and Engineering Analysis with /SysML
Saulius Pavalkis - Nerijus Jankevicius

Sat/Sun Afternoon 1400-2000 EDT

Systems Security Engineering: A Loss-Driven Focus. Mark Winstead - Michael McEvilly - Daryl Hild

Modeling and Analysis of Standard Operation Procedures (Saturday 1400-1800 EDT only) Lance Sherry - Steve Dam

Leadership Skills for Systems Engineers. David Walden

Applied Systems Theory to Enhance Systems Engineering Practice for Complex Systems. Charles Keating - Richard Hodge - Joseph Bradley

incose.org/symp2021



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INTRODUCTIONS



Personal Introductions

For this online meeting, we will do individual introductions, proceeding in the order of the day of your birthday: **1st, 2nd, 3rd, etc.**

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

- Name, Title & what do you do (30 seconds)
- 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

[Start recording]



Tonight's Presentation

Reaching MBSE Adoption Maturity with System Modeling and Simulation



Dr. Saulius (Saul) Pavalkis

**MBSE Transformation Leader and
Senior Consultant at Dassault
Systems**

[Transfer Screen to Presenter - Wait for Starting Slide, Introduce Speaker, Start recording]



Thank you for attending, see you next month!

The latest INCOSE Requirements Working Group Products

Presenter, Lou Wheatcraft

Thursday, August 19!

