



INCOSE Chicagoland Chapter Monthly Chapter Meeting Agenda

March 17, 2021

Please MUTE your phone



Agenda

- **6:30 – 7:00 PM CT** – Welcome and Announcements
- **7:00 – 7:15 PM CT** – Mini Presentation
INCOSE Competency Framework
Clifford Whitcomb
- **7:15 – 8:45 PM CT** – Feature Presentation
What Makes the Systems Engineer Successful?
Dr. Howard Eisner
- **8:45 – ???** –Raffle Drawing, Introductions, and
Networking



MEMBERSHIP



Renewing Members

Thank You for renewing your membership

<u>Name</u>	<u>Company/Institution</u>
Tom Bates	
Christopher Freund	Northrop Grumman Corporation
Jamel Marzouki	
Andrew Merrick	CNH Industrial
Ismael Torres Carino	



Benefits of INCOSE Membership

Professional Development

1. **Monthly speakers at Chapter Meetings** on topics relevant to System Engineering (later in this meeting)
2. **Monthly Webinars** on topics relevant to System Engineering (hosted by INCOSE Central). **SEPs can earn PDUs for attending!**

incose.org/about-incose/community/webinar-showcase

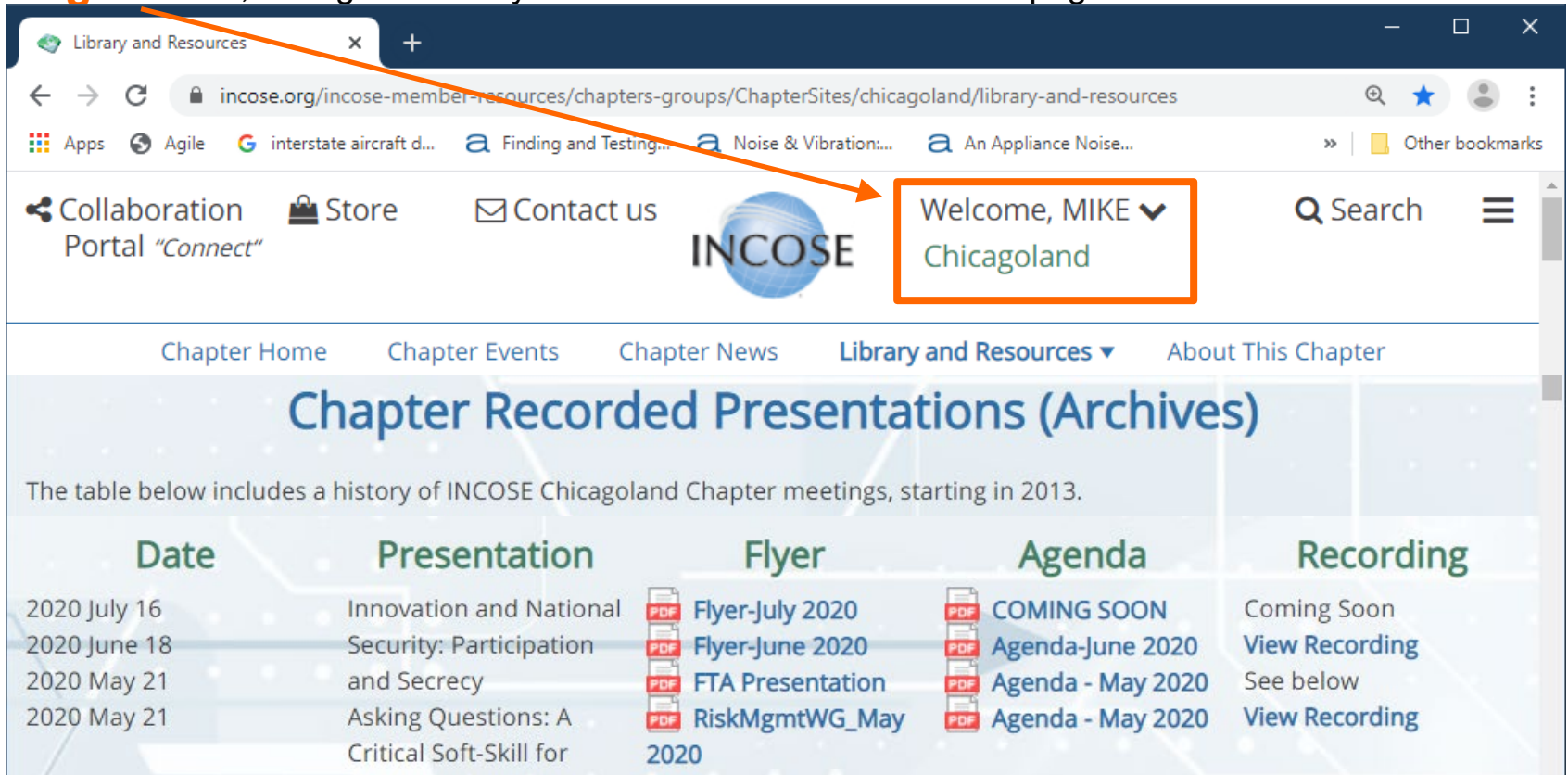


Benefits of INCOSE Membership









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. Below the navigation bar, the "Library and Resources" tab is selected. The main content area is titled "Chapter Recorded Presentations (Archives)" and includes a table of past meetings.

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

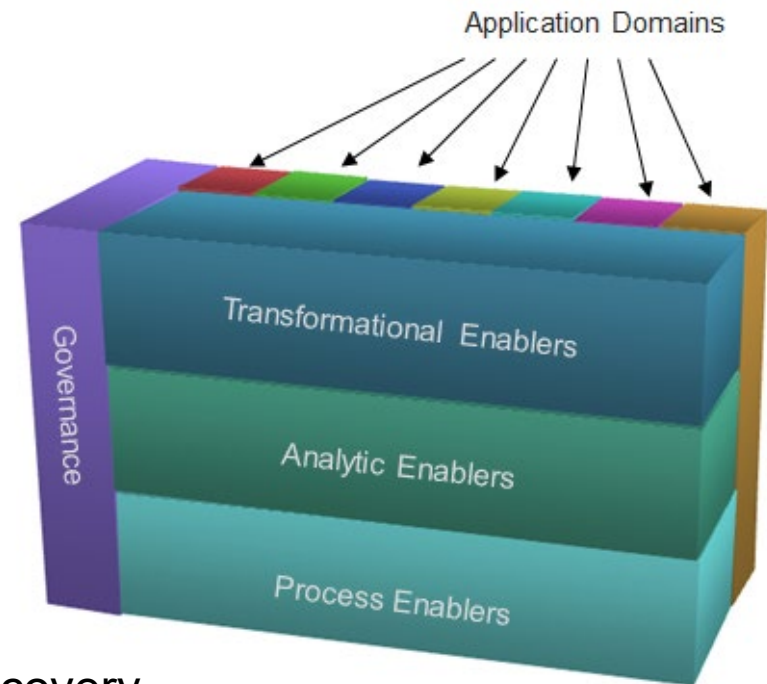
Professional Development (cont.)

5. Access to the output of **48 INCOSE Working Groups**

<https://www.incose.org/iw2020/program/working-group-information-sheet>

Just a few examples:

- Automotive
- Lean Systems Engineering
- Configuration Management
- Healthcare
- Risk Management
- Natural Systems
- Systems Security Engineering
- Training
- Critical Infrastructure Protection and Recovery





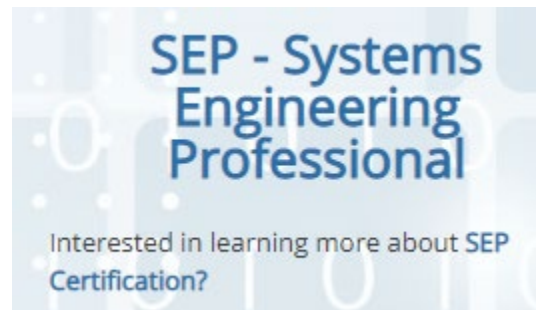
Benefits of INCOSE Membership (Cont.)

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.)

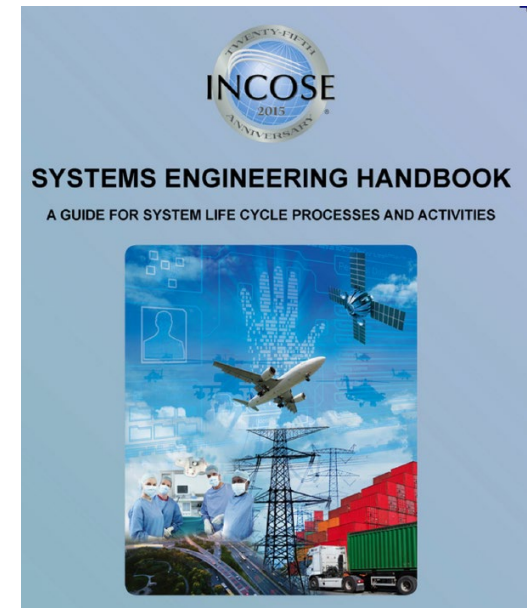
9. Access to the INCOSE Store for discounted and **free** publications:



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.)

10. 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



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

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

12. Free Resume Review Service

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



Benefits of INCOSE Membership (Cont.)

13. 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

14. 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.)

16. 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

Matt Beneke, thank you for the referral! Enjoy the gift card!



 Join us

 Login

 Search

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



NEW SCHAUMBURG MEETING LOCATION

Aerotek and EASi Engineering Services



EASi®
Amazing Begins Here™

1501 E. Woodfield Rd Suite 300N
Schaumburg, IL 60173



starting date pending



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



UPCOMING INCOSE EVENTS



Upcoming Board Meetings

Board Meetings on the first Thursday of each month

- Meetings are open to all members
- Next meeting: Thursday, April 1, 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



Sector
Americas ★
NC-GLRC

*INCOSE Chapters
Regional Conference*





CHICAGOLAND



Virtual Regional
Conference and Workshop

April 9-17, 2021

Systems Engineering
Capability and Competency



14th Annual INCOSE Americas North-Central and Great Lakes Regional Conference (NC-GLRC14)

- ☐ An all-virtual event – Expanded in 2021 (INCOSE Canada Chapter, and more)
- ☐ 30+ technical presentations, 6 tutorials, 7 Featured Presentations
- ☐ Opens Friday April 9th with 8-hour, 8-PDU, Systems Engineering Professional Development Day (SE-PDD) Livestream (available separately)
- ☐ Registration OPEN on or about March 9, 2021
- ☐ \$50 - \$100 (INCOSE member) price range

www.incose.org/GLRC



Upcoming Chapter Meetings

Chapter Meetings on 3rd Thursday of the month @ 6:30pm

Next Meeting: **Thursday, April 15, 2021**

Presenter: **Jim Streed, Distinguished Member of the Technical Staff,
DFSS Black Belt at Motorola Solutions, Inc.**

Topic: **Engineering Better Systems: the role of performance
modeling in delivering customer-perceived quality**

Meeting ideas are always welcome.

Please send suggestions for topics, speakers, meeting formats to Gary
Oswald (oswaldgary33@gmail.com)



Spring Tutorial

Systems Engineering for Legacy Systems

Instructor – David D. Walden, ESEP

Date: Friday & Saturday, 30 April – 1 May

08:00 -13:00 Central Time

Delivered Virtually, via Zoom

In this seminar, you will learn

How to effectively plan and manage a Brownfield development effort

How to perform a site survey and as-is system reconstruction

How Brownfield development affects your requirements, architecture, and design

How to effectively integrate your systems in a Brownfield development environment

Effective verification and validation in a Brownfield development environment





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Date: Friday & Saturday, 30 April – 1 May

08:00 -13:00 Central Time

Delivered Virtually, via Zoom

Attendees will earn 8 PDUs for the tutorial
Certificates will be provided.



*Eventbrite ticket sales are open! Tutorial pricing starts at \$50.
Order now for Early Bird pricing, including*

*Special offer for the INCOSE Chicagoland Chapter membership drive:
Purchase a one-year INCOSE membership and receive discounted tutorial admission.*

Register online: <https://incosechicagoland2021springtutorial.eventbrite.com>



WORKING GROUP MINI - PRESENTATION

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Update on the

INCOSE Systems Engineering Competency Framework

Mr. Clifford Whitcomb

Distinguished Professor at the Naval Postgraduate School
Chair of the Competency WG

Research and Teaching Interests

- Systems and systems-of-systems (SoS) architecture
- Naval construction and engineering
- Robust design and production
- Submarine propulsion systems



FEATURE PRESENTATION

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Tonight's Presentation

What makes the Systems Engineer Successful? Various Surveys Suggest An Answer



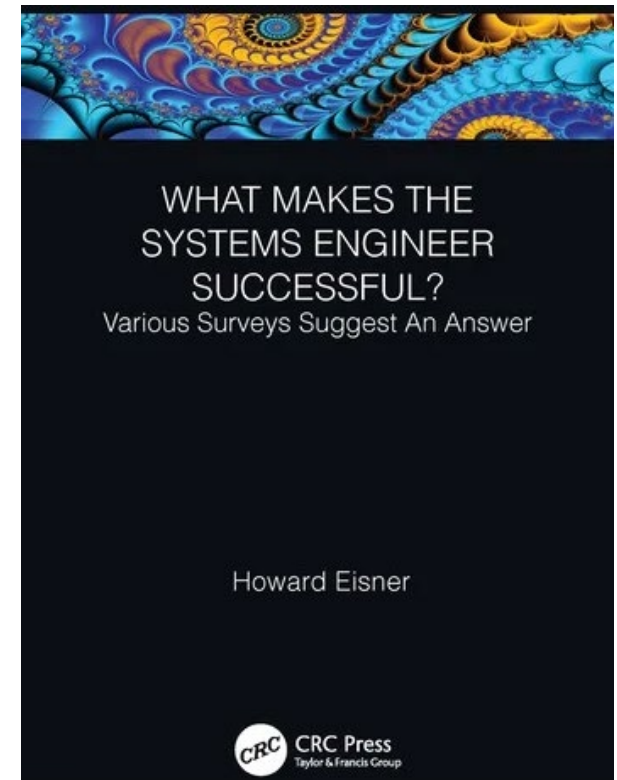
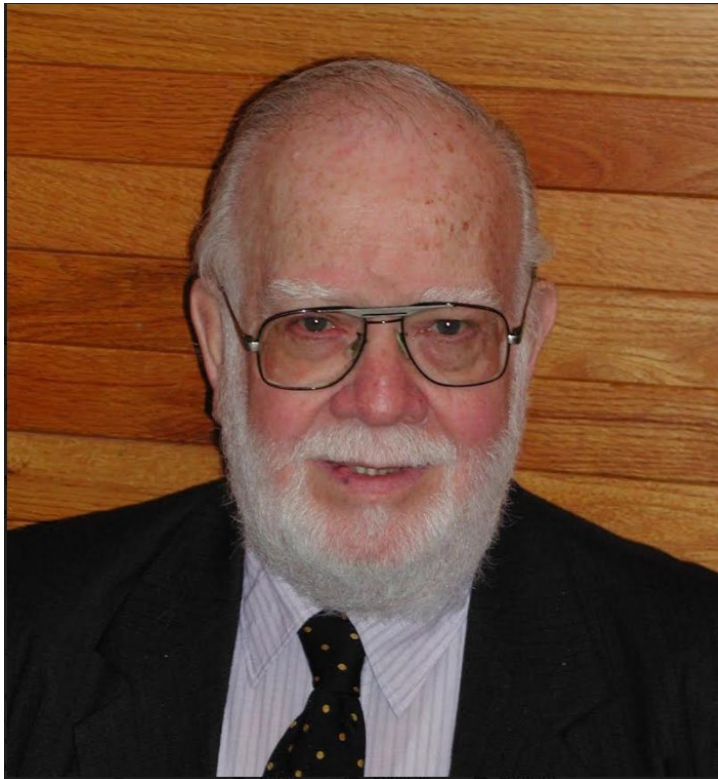
Dr. Howard Eisner, Professor Emeritus, George Washington University

Dr. Howard Eisner spent 30 years in industry and 24 years in academia. In the former he was a working engineer, manager, executive (ORI, Inc. and the Atlantic Research Corporation) and president of two high-tech firms (Intercon Systems Corporation and the Atlantic Research Services Corporation). In academia he was professor of engineering management and distinguished research professor in the engineering school of the George Washington University. At GWU, he taught courses in systems engineering, technical enterprises, project management, modulation and noise, and information theory. He has written ten books that relate to engineering, systems and management. He has also given lectures, tutorials, and presentations to professional societies such as INCOSE, government agencies (such as the Departments of Defense and Transportation, and NASA) and the Osher Lifelong Learning Institute (OLLI). In 1994 he was given the outstanding achievement award from the GWU Engineering Alumni. Dr. Eisner is a life fellow of the IEEE and a fellow of INCOSE and the New York Academy of Sciences. He is also a member of various honor and research societies - Tau Beta Pi, Eta Kappa Nu, Sigma Xi and Omega Rho. He received a Bachelor's degree in electrical engineering from the City College of New York, a Master's degree in electrical engineering from Columbia University and a Doctor of Science degree from the GWU 1966. Since 2013, he has served as Professor Emeritus of Engineering Management and Distinguished Research Professor at the GWU, where he has continued to explore advanced topics and write about engineering, systems and management.

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



Raffle Drawing – Hard copy of the book **What makes the Systems Engineer Successful?**





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