



# INCOSE

## CHICAGOLAND

January 19, 2023

Please MUTE your phone



## Agenda

- **6:30 – 7:00 PM CT** – Welcome and Announcements
- **7:00 – 7:30 PM CT** – Chapter Annual General Meeting
- **7:30 – 8:45 PM CT** – Feature Presentation, Q&A



# 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](http://www.ActalentServices.com)**



# Actalent at a Glance



**4,500+**  
Clients  
Supported



**1,100+**  
Dedicated  
Recruiters



**27,500+**  
Consultants  
Engaged



**2.5 Billion**  
In Revenue



- AND -  
**20**  
Delivery Centers  
Across North America,  
EMEA, APAC and India

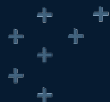
## Capabilities

### Sciences

Healthcare +  
Clinical Research +  
Laboratory Sciences +

### Engineering

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



[actalentservices.com](https://actalentservices.com)



# 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.

# 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](http://www.incose.org)



# Vision and Mission

**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](http://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

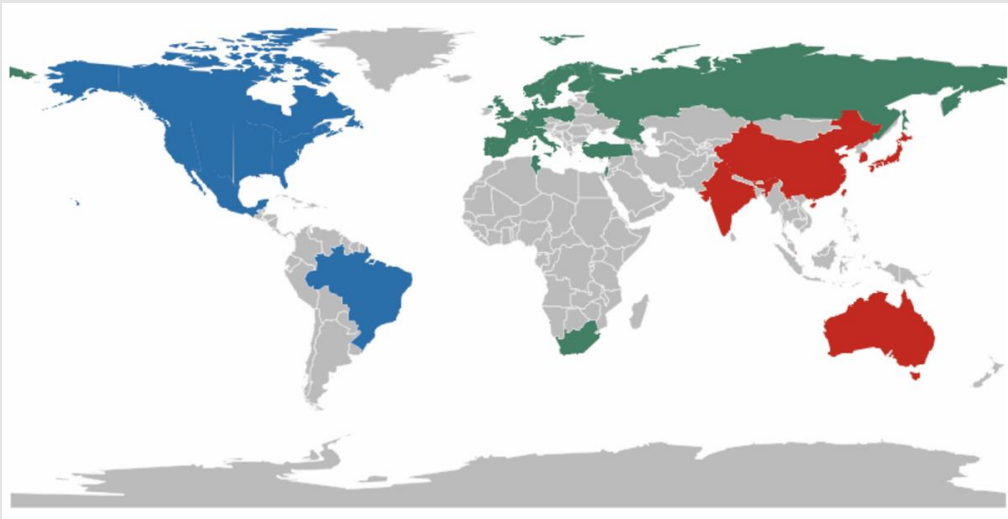
- Global Context for SE
- Current State of SE
- Future State of SE
- Realizing the Vision

*Please work with INCOSE to help realize this vision.*

Complete SE Vision 2035 available as website and pdf  
[www.incose.org/sevision](http://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

# Global Impact



# Why Join INCOSE?

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INCOSE – global SE professional society  
– providing **opportunity for life-long learning** in systems approaches

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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.

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

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INCOSE members increase body of knowledge, **advance practice** of SE

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**Network** with over 19,000 members in 76 countries

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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

**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

Collaboration Portal "Connect" Store Contact us INCOSE

Welcome, MIKE ▾  
Chicagoland

Search


Chapter Home Chapter Events Chapter News **Library and Resources ▾** About This Chapter

### Chapter Recorded Presentations (Archives)

The table below includes a history of INCOSE Chicagoland Chapter meetings, starting in 2013.

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

# Corporate Advisory Board (CAB)



INCOSE CAB is Voice  
of Customer to  
INCOSE leadership.

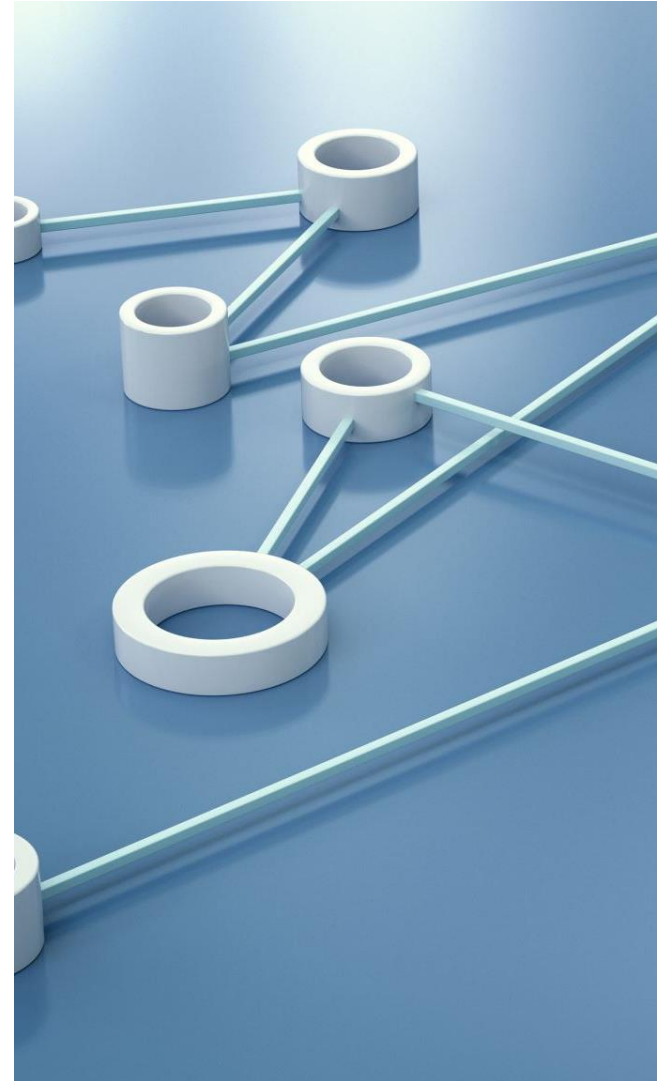
The diagram consists of two large, stylized arrows pointing towards each other. The left arrow is orange and points right, containing the text 'INCOSE CAB is Voice of Customer to INCOSE leadership.' The right arrow is grey and points left, containing the text 'CAB strategically guides technical leadership, leading to INCOSE products and influence to standards'. The arrows are positioned such that they appear to meet in the center, creating a sense of a two-way relationship or a process flow.

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

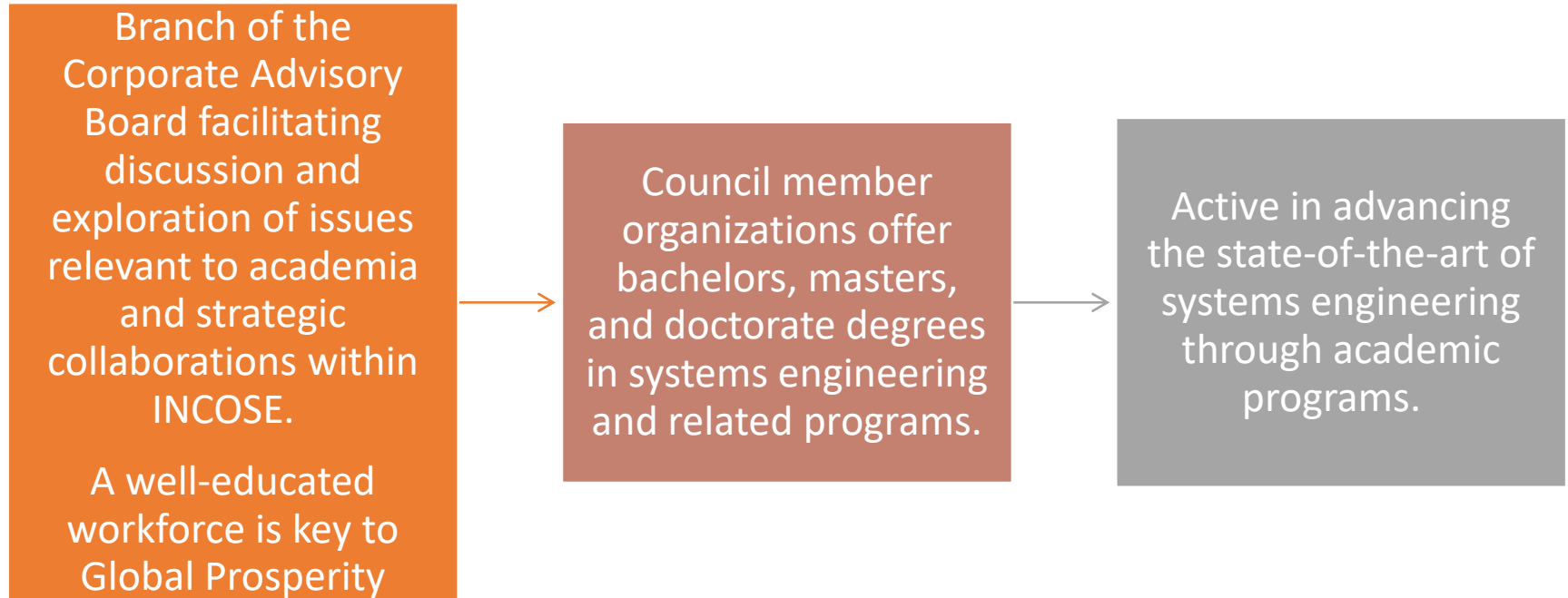


# WHY JOIN THE INCOSE CORPORATE ADVISORY BOARD?

- 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



# 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

 <p><b>Associate Systems Engineering Professional</b></p> <p>College students and those new to systems engineering may be qualified as Associate Systems Engineering Professionals (ASEP).</p> <p><a href="#">LEARN MORE</a></p>	 <p><b>Certified Systems Engineering Professional</b></p> <p>Working engineers who can perform independently in a variety of systems engineering functions can be recognized as Certified Systems Engineering Professionals (CSEP).</p> <p><a href="#">LEARN MORE</a></p>	 <p><b>Expert Systems Engineering Professional</b></p> <p>Individuals who solve the most challenging, technical problems and are seen as leaders in their community can become Expert Systems Engineering Professionals (ESEP).</p> <p><a href="#">LEARN MORE</a></p>
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## Chapter SEP Certification Mentors

If:

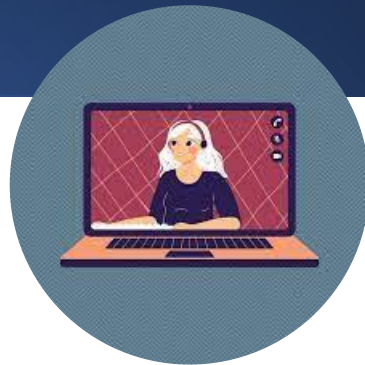
- you are an INCOSE member, and
- you are interested in becoming certified as a Systems Engineering Professional (SEP), and
- you have questions about the certification process

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 Kubychек	CSEP	crk022@gmail.com
Chris Freund	ASEP	cfreund7@gmail.com

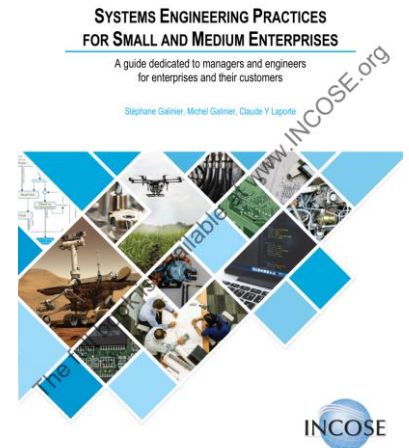
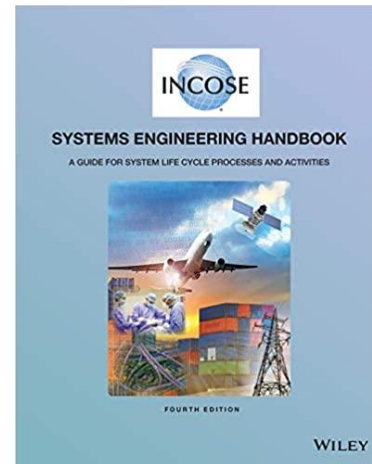
# Conferences and Connections



- <https://www.incose.org/events-and-news>
- IW2023
- IS2023



# 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 pre-college student

The Chesapeake Chapter Award

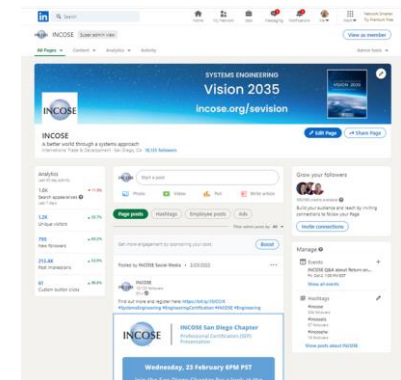
The Stevens Doctoral Award for Promising Research in Systems Engineering to a PhD Candidate

The James E. Long Award for Post Doctoral work

# Engage with INCOSE Follow us on social media

Follow, like, comment, and share on all INCOSE social media platforms.

- LinkedIn:  
<https://www.linkedin.com/company/44559/>
- LinkedIn Group:  
<https://www.linkedin.com/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, *INSIG HT* 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](http://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 Mike Gut, Chicagoland’s Secretary, at [gut\\_mike@hotmail.com](mailto:gut_mike@hotmail.com)



 Join us

 Login

 Search

A better world through a systems approach



# ANNUAL GENERAL MEETING





## Annual General Meeting – January 2023

Once a year we provide an update to our Chapter membership on the following topics:

- ☐ 2023 Board Of Directors
- ☐ State of the Chapter
- ☐ Circle Award Submission
- ☐ Chapter Membership
- ☐ Filing of Reports
- ☐ Financial Status



## INCOSE Chicagoland Chapter Board of Directors for 2023

Role	Name of Leader
President	Russell Kubycheck
Vice President	Open Position
Treasurer & Professional Society Representative	Steve Perich
Secretary	Mike Gut
Director-at-Large & GLRC Liaison	Bob Parro
Program Chair	Gary Oswald
Academic Representative & Web Master	Sachin Moghe
Membership Chair	Open Position
Communications Chair	Open Position
Industry Outreach Representative	Open Position



# Annual General Meeting – January 2023

## State of the Chicagoland Chapter

### *2022 Accomplishments:*

- Held **11** Chapter Meetings. On average, over **25%** of the chapter attended each.
- Held **12** Board of Directors (BoD) Meetings
- Published **1** Newsletter
- Submitted all required reports to INCOSE Central (**1** Financial Report)
- Chapter hosted **2** Seminars
- Chapter sponsored MBSE Lunch and Learn tutorials

### *Takeaway:*

The Chapter is vibrant, healthy, and ready for your participation and contributions!



# **Annual General Meeting – January 2023**

## **Circle Award Submission**

We filed for a GOLD Circle Award for 2022





# Annual General Meeting – January 2023

## Chapter Membership Update

- **128** INCOSE Members affiliated with the Chicagoland Chapter at the beginning of 2022.
- **153** INCOSE Members affiliated with the Chicagoland Chapter at the end of 2022.



# **Annual General Meeting – January 2023**

## **Filing of Required Reports**

The 2022 Chapter President and Treasurer filed the following reports with INCOSE Central (on-time):

- 2022 End of Year Financial Report





## Annual General Meeting – January 2023

### 2022 Financial Status of Chapter

Description	Amount
Dues (Chapter Share)	\$3,189
Spring Seminar Registration Fees	\$3,825
Fall Seminar Registration Fees	\$ 390
Chapter Meeting Food	(\$ 585)
Chapter Logo and Raffle Tickets	(\$ 100)
Chapter Shirts (qty 24)	(\$ 915)
Zoom Subscription	(\$ 150)
Spring Seminar Expenses (Speaker Fee, New Membership Fees, Misc. Fees (Eventbrite & PayPal))	(\$1,713)
Fall Seminar Expenses (Speaker Fee, Speaker Travel Expenses, New Membership Fee, Food and Beverage Expense, Misc. Fees (Eventbrite & PayPal))	(\$1,515)
Net	\$2,426



# Annual General Meeting – January 2023

## Financial Status of Chapter – 2022 Totals

2021 Year Net (Income - Expenses) = \$

2022 Year Net (Income - Expenses) = \$

2020 Year End Bank Account Balance: \$

2021 Year End Bank Account Balance: \$

2022 Year End Bank Account Balance: \$

**Restricted  
information**

All invoices have been paid. There are no outstanding invoices or debts.



## Annual General Meeting – January 2023

**Open** Leadership Opportunities in the Chapter for 2023:

- Chapter Vice President
- Communications Chair
- Membership Chair
- Volunteer Coordinator
- Ambassador for your company or organization
  - If interested in volunteering, please contact:  
Russell Kubychek, Chapter President



# UPCOMING INCOSE EVENTS



## Upcoming Board Meetings

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

- Meetings are open to all members
- Next meeting: Thursday, Feb 2, 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: Russell Kubychek, Chapter President, via email:  
[incose.chicago@gmail.com](mailto:incose.chicago@gmail.com)



## Upcoming Chapter Meetings

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

- Feb 16, 2023: Randall Iliff Genius Everywhere – SE Guide to Helping Stakeholders Help them selves.
- Mar 16, 2023: Lou Wheatcraft Requirements WG update
- Apr 20, 2023 : Lou Wheatcraft Writing well formed Requirements Overview

### Spring Seminar

- May 6, 11, 20, 2023: Requirements





## Annual General Meeting – January 2023

Questions?





# 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

[Start recording]



## **Topic: Beyond Digital: Bridging the Divides**

### **Presenter: David Long**

### **Presentation Site: Onsite Actalent + Online**

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

7:00 - 7:30 PM CT - Annual General Meeting (AGM)

7:30 - 8:45 PM CT - Feature Presentation and Q&A

### **Abstract**

We live in the age of digital, leveraging unprecedented computational power and storage to improve our lives. As we apply digital to our organizations, the critical business and engineering concepts of today – digital transformation, digital thread, digital twin, digital engineering – are far more than technology. All live at the intersection of human and technology, world view and workflow, culture and organizational change. How can we look beyond digital, embrace the greater scope, and bridge the divides to transform our approaches and deliver success in the digital age?

### **About Our Speaker**

David Long has spent over 30 years helping organizations increase their systems engineering proficiency while simultaneously working to advance the state of the art. David was the founder and president of Vitech where he led development of innovative, industry-leading methods and software to engineer next-generation systems. He co-authored *A Primer for Model-Based Systems Engineering* and frequently delivers keynotes, tutorials, and workshops around the world. An INCOSE Fellow and Expert Systems Engineering Professional, David was the 2014/2015 president of INCOSE.

David holds a bachelor's degree in Engineering Science and Mechanics, as well as a master's degree in Systems Engineering from Virginia Tech.