10th Annual Systems Engineering in Healthcare Conference

April 29 - May 1, Minneapolis, MN

The INCOSE Conference on Systems Engineering in Healthcare enables participants to share the best practices in the latest Systems Engineering topics as applied to both Medical Devices and Healthcare Delivery.

Keynote Speaker

Jim Peichel, VP Cardiac Implantables Technology Development Center, Medtronic Cardiac Rhythm Management

"Why Systems Engineering is Critical to the Future of Healthcare"

Invited Speakers

o   Beyond the System: **David Long**, INCOSE past President, Director for Strategic Integration and President, Blue Holon "Succeeding Beyond the System: Embracing the Socio and the Technical*"

o   AI/ML: **Steve Zielinski**, Vice President of Systems and Software Engineering at Future Cardia "Peering into the Crystal Ball: The Future of AI/ML in Healthcare Technologies*"

o   Cyber Security: **Michelle Jump**, CEO MedSec "Emerging Topics in CyberSecurity*"

o   Digital SE: **Joseph Green**, Distinguished Engineer and Technical Fellow | Chief Systems Engineer, Patient Care Systems and Software | Medtronic, "Engineering the Leap: Model Transformation as a Springboard to Digital Engineering*"

*Working title

Audience

The audience is Systems Engineers, product developers and testers, Certifiers, and leaders of organizations developing complex healthcare products and services, from large Healthcare IT systems to medical devices to healthcare delivery organizations.

Conference Theme

Practitioners share their knowledge and experience through presentations and collaborative sessions. We encourage sessions on experience reports and case studies, interactive panel sessions, and instructional tutorials. Tracks include:

➢ Requirements and Test Mgt
➢ "Beyond the System"
➢ Digital SE (MBSE, Simulation)
➢ Safety and Risk Management
➢ Cybersecurity
➢ Agile and Lean Methods
➢ Machine Learning/AI
➢ Fundamentals of SE (basics)

LEARN, CONTRIBUTE, COLLABORATE: Back by popular request, April 29th will have tutorials, while April 30th – May 1st includes multiple session learning tracks as well as collaboration session opportunities to advance the state of the community.

EASILY REACHED LOCATION: The conference venue is Crowne Plaza Aire, 3 Appletree Square, Bloomington, MN 55425, near the MSP airport and the Mall of America. Breakfast, lunch, and snacks will be provided at the venue each day, with a banquet included on the first night. A special conference rate is available at INCOSE or call 952-854-9000 and ask for the "INC" rate.

Register now! Early registration ends March 30th

Conference Homepage

What's Special This Year?

We have more content than ever before…we have added a fifth room to handle the additional talks and made a substantial investment in improving our audiovisual experience. The tentative layout (pending author acceptances) of the tracks is:

30-Apr

Time	Ballroom 1	Ballroom 2	Wright	Runway	Apollo
7:00-8:00	Breakfast				
8:00-8:30	Introductions				
8:30-10:00	Keynote:				
10:00-10:30	Break				
10:30-12	Beyond the System	SE Fundamentals	Cybersecurity	Digital SE	Safety & Risk Management
12:00	Lunch				
1:00-2:00	Beyond the System	Artificial Intelligence & Machine Learning	Cybersecurity	Digital SE	Safety & Risk Management
2:00	Mini-Break				
2:10-3:30	Sponsor Presentations				
3:30-3:45	Mini-Break				
3:45-5:15	Requirements & Test	Artificial Intelligence & Machine Learning	Cybersecurity	Digital SE	Safety & Risk Management
5:15	Day Adjourns				
5:30-7:00	JAMA Reception / Happy Hour				
7:00-9:00	Banquet				

1-May

Time	Ballroom 1	Ballroom 2	Wright	Runway	Apollo
7:00-8:00	Breakfast				
8:00-9:00	Beyond the System	Artificial Intelligence & Machine Learning	Lean/Agile Methods	Digital SE	Safety & Risk Management
9:00-9:30	Break				
9:30-11:30	Beyond the System	Artificial Intelligence & Machine Learning	Lean/Agile Methods	SE Fundamentals	Requirements & Test
11:30	Lunch				
12:30-2:00	Unconference				
2:00-2:30	Conference Retrospectives				
2:30	Conference Adjourns				

Click here for the preliminary downloadable list of talks.

Beyond the System

Systems Engineering extends beyond traditional requirements, architecture, and verification; it can influence the enterprise, the business, and the entire ecosystem. This track offers valuable methods and lessons learned that can empower you to create significant advancements in your organization, surpassing the limitations of the system at hand. The two days of presentations will cover topics such as Socio-Technical Mastery, System of Systems, Product Line Engineering, Platform Management, and Interoperability.

We are pleased to announce that David Long will be initiating the Beyond the System track this year. As the former President of INCOSE, current INCOSE Director for Strategic Integration, and President of Blue Holon, David brings exemplary leadership practices to our event.

Fundamentals

This year, we are introducing a Fundamentals Track targeted for participants who are:

- *New to systems engineering and building their foundation*
- *New to INCOSE and wanting to understand its terminology and framing for SE*
- *Experienced practitioners looking for a refresher on the fundamentals*

The Fundamentals Track is particularly focused on key systems engineering concepts tailored to MedTech, targeting participants in their first five years in systems engineering. This track will consist of a full-day Fundamentals tutorial on April 29th, followed by focused talks during the main conference. The Fundamentals tutorial will be taught by a team with over 200 years of SE experience.

Contact christopher.unger@incose.net or kelly@agilequalitysystems.com for more information.