

At a Glance

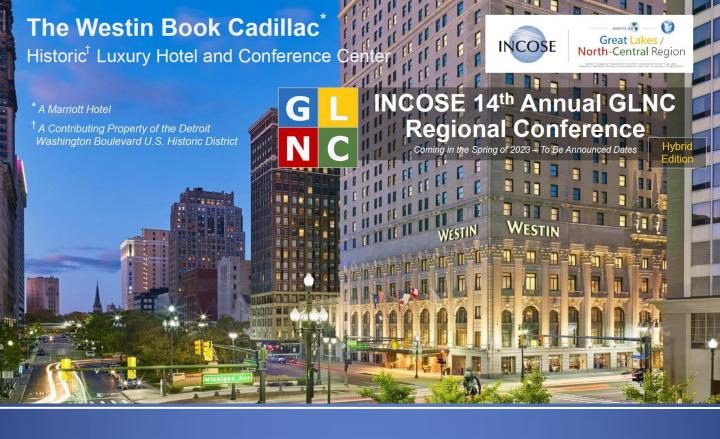
Program Schedule

Preliminary Advanced

Presentations, Workshops, Tutorials & Roundtables

3 – "Mobility Systems: Land, Sea, Air and Space"
Leveraging NASA's Technology Transfer / Small Business Programs
and Michigan's Office for Future Mobility and Electrification (OFME)
Resources & Programs for Rapid Mobility Systems Innovation.

- **2 "INCOSE Smart Cities Initiative"** Stakeholder Outreach and Exploration of System Modeling Concepts, Methods and Tools
- 1 "Transformation Through Digital Engineering"
 Presentations, Workshops & Tutorials on Systems Modeling (MBSE)



At a Glance

Program Schedule

Preliminary Advanced

An "Innovation Accelerator"
Hybrid Conference and
Workshop Event Streamed from
Detroit, Michigan, USA.

Featured Speakers and Instructors

Preliminary Advanced



Thomas M. Doehne

Partnership and Commercialization Specialist, Office of Technology Incubation and Innovation, NASA John H. Glenn Research Center





Trevor Pawl

Chief Mobility Officer, State of Michigan, Office of Future Mobility and Electrification (OFME)





Kerry Lunney

President, International Council on Systems Engineering (INCOSE), 2020-21. Engineering Director and Chief Engineer, Thales Australia





Gavin Brown

Executive Director, Michigan Aerospace Manufactures Association (MAMA); Chair, North American Space Summit (NASS)







Dr. Bruce Powel Douglass

Senior Principal Systems Engineer, MITRE; Author, MBSE Instructor in SysML/UML





Brett Hillhouse

Global Automotive Leader, IBM Artificial Intelligence (AI) Applications.



Speakers, Panelists and Instructors (Cont.)

Preliminary Advanced



Dr. Tina P. Srivastava
Co-Chair, INCOSE PM-SE Integration WG,
PMI-INCOSE Strategic Alliance;
Fellow, MIT Aeronautics and
Astronomics Engineering, Design and
Management School









Pascal Thalin
Director, Aerospace Standards, Technology and
Innovation, SAE International





Charlie TysonTechnology Activation Manager, Michigan's Office of Future Mobility & Electrification (OFME).





Claude Laporte, Ph. D.
Professor, École de Technologie Supérieure (ÉTS),
Montreal, Quebec, Canada; Committee Member,
ISO/IEC 29110, Systems and Software Engineering
Standards, Guide for Very Small Entities







Jon Mooney, PE
INCOSE Smart Cities Initiative (SCI); Principal,
Acoustics by JW Mooney, LLC.





Stephane LacrampeDirector, ObeoSoft Canada Inc.





Steve Cash, CSEPPrincipal Systems Engineer, Vitech Corporation



Quick Reference – Keynote & Featured Speaker Presentation Topics

Preliminary Advanced

Kerry Lunney

President, International Council on Systems Engineering (INCOSE), 2020-21; Engineering Director and Chief Engineer, Thales Australia.

Travelling the Trajectory of Future Mobility Solution: A System of Systems Approach

Trevor Pawl

Chief Mobility Officer, State of Michigan Michigan Economic Development Corporation (MEDC) Office of Future Mobility and Electrification (OFME).

Future Mobility & Electrification: Realizing Michigan's Vision for an Advanced Transportation Ecosystem

Thomas M. Doehne

Partnership and Commercialization Specialist, Office of Technology Incubation and Innovation; NASA Glenn Research Center.

NASA Glenn Research Center Overview: NASA Entrepreneur and Small Business Programs

Gavin Brown

Chair, North American Space Summit (NASS) Executive Director, Michigan Aerospace Manufactures Association (MAMA).

Michigan: Mid-America's Space Harbor

Brett Hillhouse

Global Automotive Leader, IBM Artificial Intelligence (AI) Applications.

The New Frontier: Artificial Intelligence (AI) and the Transformation to Digital Engineering

Dr. Bruce Powel Douglass

Senior Principal Systems Engineer, MITRE; Chief Evangelist (SysML/UML), IBM (1995-2019). Enabling Digital Engineering and Model-Based Systems Engineering (MBSE)

Jon Mooney, PE

INCOSE Smart Cities Initiative; Principal, Acoustics by JW Mooney, LLC.

The Glass Bead Game: Bridging the Gap Between Complex Smart City Models and Practical Applications

Claude Laporte, Ph. D.

Professor, École de Technologie Supérieure (ÉTS), Montreal, Quebec, Canada.

The ISO/IEC 29110 Systems and Software Engineering Standards and Guides for Very Small Entities

Charlie Tyson

Technology Activation Manager, Michigan's Office of Future Mobility & Electrification (OFME).

Overview of Michigan Economic Development Corporation (MEDC) and Office of Future Mobility and Electrification (OFME) Programs and Services

Dr. Tina P. Srivastava

MIT Aeronautics and Astronomics Engineering Fellow, MIT System Design & Management School; Co-Chair, INCOSE PM-SE Integration WG.

Innovating for the Future: Why Integrating Project/Program Management (PM) and Systems Engineering (SE) is Important

Pre-Event Tour:

Tour & Overview Presentation, American Center for Mobility (ACM) Willow Run Site, Ypsilanti, Michigan USA.

Preliminary Advanced

Program Schedule – Day 1

EDT	Track 1 - Presentations	Track 2 – MBSE Workshops
0800 - 0900	Networking / Showcase / Social	
0900 - 0945	Dr. Bruce Powel Douglass Enabling Digital Engineering and MBSE	MBSE Workshop Prep: Participant Arrival and Class Readiness
0945 - 1030	Brett Hillhouse The New Frontier: AI and Transformation to Digital Engineering	
1030 - 1100	Morning Break (30m)	
1100 - 1230	Jon Mooney, PE The Glass Bead Game: Bridging the Gap Between Complex Smart City Models and Practical Applications	MBSE Workshop: Scenario-Based Use Case Analysis (90 minutes) Instructor: Dr. Bruce Powel Douglass
1230 - 1330	Lunchtime Break / Showcase / Networking (60m)	
1330 - 1415	Trevor Pawl Future Mobility & Electrification: Realizing Michigan's Vision for an Advanced Transportation Ecosystem	
1415 – 1500	Thomas Doehne NASA Glenn Research Center Overview and Entrepreneur/Small Business Programs	MBSE Workshop:
1500 - 1530	Afternoon Break (30m)	Test-Driven Modeling with State Machines (3 hours)
1530 - 1615	Charlie Tyson Accelerating Mobility Innovation: An Overview of the OFME's Land, Sea and Air Test Site Network, Grant Programs and Projects	Instructor: Dr. Bruce Powel Douglass
1615 - 1700	Claude Laporte, Ph.D. The ISO/IEC 29110 Systems and Software Engineering Standards and Guides for Very Small Entities	

Program Schedule – Day 2

Preliminary Advanced

EDT	Track 1 – Presentations and Workshops	Track 2 – Tutorials / Panel / Closing Keynote
0800 - 0900	Networking / Showcase / Social	
0900 - 0945	Kerry Lunney Travelling the Trajectory of Future Mobility Solutions	MBSE Tutorial: - Arcadia and Capella Discovery (3 hours) Instructor: Stephane Lacrampe
0945 - 1030	Gavin Brown Michigan: Mid-America's Space Harbor	
1030 - 1100	Morning Break (30m)	
1100 - 1230	Workshop / Q&A Session NASA Glenn Research Center Technology Transfer Office Overview and Mobility Related Technologies (90 minutes) Facilitator: Thomas Doehne	MBSE Tutorial (continued): Arcadia and Capella Discovery (3 hours) Instructor: Stephane Lacrampe
1230 - 1330	Lunchtime Break / Showcase / Networking (60m)	
1330 - 1415	Jon Mooney, PE Smart Cities Operational Analysis Workshop (3 hours)	Panel Roundtable: System Engineering and Technology Challenges and Opportunities –Enabling Electrification of Future Mobility Systems
1415 - 1500		Moderator: R. Beach (NASA, Retired) Panelists: P. Thalin (SAE), B. Douglass (MITRE), B. Hillhouse (IBM), T. Srivastava (INCOSE-PMI)
1500 - 1530	Afternoon Break (30m)	
1530 – 1700	Jon Mooney, PE (continued) Smart Cities Operational Analysis Workshop (3 hours)	Tina P. Srivastava, Ph.D. Innovating for the Future: Integrating Project Management and Systems Engineering

Day 3:

MBSE Workshop: "Systems Engineering an Off Grid Electrical Supply"

Instructor: Steve Cash, Vitech

9:00am - 5:00pm EDT

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SAE-INCOSE Collaboration Partnership and Joint Membership Discount Program





PMI-INCOSE Strategic Alliance on Integrating Project/Program (PM) and Systems Engineering (SE)









INCOSE is a not-for-profit membership organization founded in 1990 to develop and disseminate trans-disciplinary principles and practices that enable the realization of successful systems. INCOSE is designed to connect systems engineering professionals with educational, networking, and career-advancement opportunities in the interest of developing the global community of systems engineers and systems approaches to problems. We are also focused on producing state-of-the-art work products that support and enhance this discipline's visibility in the world.