



Virtual Regional
Conference and Workshop

April 9-17, 2021

Systems Engineering
Capability and Competency



Presenter Orientation

INCOSE NC-GLRC14 Spring 2021 Virtual Conference

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Sector
Americas ✨
NC-GLRC
*INCOSE Chapters
Regional Conference*



14th Annual Americas
North-Central and
Great Lakes Regional



**Virtual Conference
and Workshop**

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Systems Engineering
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12 Chapters in the North (NC-GL) Region *

Canada - Chicagoland - Cleveland–Northern Ohio (C-NO) - Crossroads of America (COA)
Finger Lakes - Great Plains - Heartland - Michigan - Midwest Gateway (MGC)
North Star - Three Rivers (TRC) - Wright Brothers

** Participation by all Chapters, members and non-members is welcome!*

Themes:

Systems Engineering Capability and Competency

with select content on

“Mobility Systems: Land, Sea, Air and Space”



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Virtual Conferencing IT Platform – KMD Events (INCOSE Provider)

Examples: IS2020, IW2021, IS2021, INCOSE WSRC, SCER, etc.

The screenshot displays the website for the 2021 Annual INCOSE International Workshop Virtual Event, running from January 29 to 31, 2021. The interface features a blue sidebar on the left with navigation links: Home, Program, Program Highlights, Working Group Showcase, Sponsor Showcase, About INCOSE, Social Wall, and C@fé. The main content area has a dark blue header with a network-themed graphic and a message: "You are not connected, please connect to the platform to enjoy all the capabilities" with "Login" and "Register" buttons. Below this is a large white banner with the text: "Join us for the Annual INCOSE International Workshop Premier Systems Engineering Workshop". A dark blue button labeled "How to navigate on the platform" is positioned at the bottom of the banner.

Virtual Conferencing IT Platform – KMD (E.g., Showcase Area)

The screenshot displays a web browser interface for a virtual conference. The address bar shows the URL `conference.confir.com/IW2021/sponsorsshowcase`. The page features a navigation menu on the left with the following items: Working Group Showcase, Sponsor Showcase, About INCOSE, Social Wall, C@fé, Latest News, and Help Desk. At the top right, there is a notification: "You are not connected, please connect to the platform to enjoy all the capabilities" with "Login" and "Register" buttons. The main content area is a 2x3 grid of virtual booths. Each booth consists of a cylindrical counter with a company logo and a backdrop with silhouettes of people. The booths are for: 1. intercax (top left, blue backdrop with a network diagram), 2. jama software (top middle, blue backdrop), 3. leidos (top right, purple world map backdrop), 4. Maplesoft (bottom left, white backdrop with a network diagram), 5. PROJECT PERFORMANCE INTERNATIONAL (bottom middle, white backdrop with a globe), and 6. Tom Sawyer SOFTWARE (bottom right, blue backdrop with a flowchart). At the bottom left, there is a "THANKS TO OUR SPONSORS" section featuring the BigLever logo.

Preliminary Program – “Final Program” Target 26Feb2021

First Rough-Cut Preliminary Program Schedule / Feb 11, 2021

FRI April 9		SAT April 10		SUN April 11		MON April 12		SAE WCX Digital Summit - April 13-15 - Potential Common (Shared) Track?			FRI April 16		SAT April 17	
TUES April 13		WED April 14		THUR April 15										
SE-PDD Livestrem														
53 - Unlimited Potential - Leveraging the Mind in Design - Randal C. Biff		54 - TBD Top - Barclay Brown		3 - The Systems M: A Variation on the Winged Vee - Robert Bordley		24 - 6 Vs and 3 Ts of Systems Engineering - David Long		26 - The Beginner's Guide to Model-Based Systems Engineering (MBSE) - David Long			Placeholder for Potential Panel Session		12 - Lean Startup Method (LSM) and Agile for Mobility System Solution Initial Project Planning (IPP) - Michael Pafford	
1 - Should individuals always avoid unfair risks, even if they expect to be short of requirements? - Robert Bordley		9 - An Introduction to Automotive SPICE - Willem Buisander		38 - Chapter Leaders Membership Roundtable - Jack Stein		17 - Usage of ISO24242/STP Processes for the Validation and Verification for ADAS/Autonomous Vehicle Systems - Jack Allen		27 - Using Effective MBSE to move up the Data-Information-Knowledge Understanding Wisdom Chain and Providing Long Term Strategic Value to the Enterprise - Brian Selby			42 - Spectacular View of the City (Potential Keynote) - Jan Mooney		47 - Risk, Opportunity, or ...? - Paul Heinegger	
2 - Building Trust - A Systems Engineer's Most Powerful Tool - Sean McCoy and Francisco Diaz		10 - Automotive SPICE Level 2 & 3: The Journey to becoming a Learning Organization - Willem Buisander		49 - (1 of 9) Keys to Effective Chapters Workshop - Jack Stein and Mary Malast		18 - Automotive Component Supplier Use of SaaS: Building the Support Ecosystem Development - David Heinegger, Andrew Dulles and Eric Conlon		28 - Requirements Management at General Motors - Approach, Successes and Challenges			37 - Putting the round peg in the square hole: Applying Agile practices to hardware development		48 - The Unforeseen Impacts of Cognitive Bias - Tim Boyd	
3 - Model of Models Methodology - Alexander Jackson		11 - Outcome: Rule-Based Training and Development for System Modelers - Michael Visevich		49 - (2 of 9) Keys to Effective Chapters Workshop - Jack Stein and Mary Malast		19 - A Model-Based Systems Engineering Approach to Assessing Mobility in System Architectures		29 - Scheduling System Confidence Efficiently through Capability-Based Verification			38 - How to Improve Software Reliability - Few easy tricks		48 - Lean-Agile Feature Selection Using Model Driven Design and Develop in a Water-Scrum-Full Environment - Daniel	
59 - INCOSE SEP Certification - Courtney Wright		13 - ModelCenter MBSE: The next generation MBSE to Analytics Integration tool - Sebott Czeisler		4 - Building Really Big Systems with Lean-Agile practices in SAFe - Harry Koehnemann		56 - Michigan Space Port: Mobility System Implications - Gavin Brown		25 - Application of PLM in MBSE including AUTOSAR variant handling use case			42 - Risk Management in International Standards - Paul Heinegger		50 - Using Clean Engineering to Improve the Reliability of Transportation - Open Physical Systems & Model Approach to the Fleet and Evaluation of Complex Systems - Mike Preece	
7 - Apollo 13: A Cautionary Tale - Curtis Pettitwell		14 - Outcome: Rule-Based Training and Development for System Modelers - Nathan Visevich and Michael Visevich		49 - (3 of 9) Keys to Effective Chapters Workshop - Jack Stein and Mary Malast		20 - Virtual Button and Graphical Interface System Safety Evaluation using System Theoretic Process		30 - With a Little Help From Our Friends: The Family of Systems Disciplines and What We Can Learn From			43 - Risk Management in Operational Standards and Processes with Feature-Based Product Line Engineering - Willem Buisander and Paul Osewsky		51 - SE Methodology & Ontology - Key Cornerstones for SE Digitization	
38 - STUDENT - Sigma Theta Mu Presentation - Not Yet Announced		15 - Building Engineering Gears: Automate Criticality Assessment and Error Detection		49 - (4 of 9) Keys to Effective Chapters Workshop - Jack Stein and Mary Malast		21 - Systems Thinking During a Global Pandemic: Applying the Value Systems Model, Critical Systems Thinking, and Soft Systems Methodology to a Small-Team Profit During COVID-19		31 - When words collide: Achieving regulatory compliance with Lean-Agile and SAFe			44 - The True Value of Creating a Failure Resume - Tim Boyd and Maria Grundmann		52 - SE Methodology & Ontology - Key Cornerstones for SE Digitization	
8 - Space Resource Management: A Study of the Impact of Space Exploration on Earth and Near-Earth Environment - Stephen Peterson		16 - Lean Startup Method (LSM) and Agile for Mobility System Solution Initial Project Planning (IPP)		55 - TBD Topic - Arthur Hyde		22 - Schemas and Metamodels and Ontologies, Oh My! - David Long		32 - Integrated Product Line Engineering and the Digital Thread			6 - DE/MBSE for Management Training - Daniel Cobb and Alexander Jackson		49 - (5 of 9) Keys to Effective Chapters Workshop - Jack Stein and Mary Malast	
57 - Sigma Theta Mu Lecture - Not Yet Announced														

Student Career Fair (Showcase) | INCOSE Regional Chapter Showcase | INCOSE Showcase (with "About", Bookstore, Membership, SEP, etc.) | Sponsor Showcase

- 42 Technical Presentations (45 minutes each, including Q&A)
- 6-8 Tutorials - We are assuming all are 4 hours, but have to double check
- 7-10 Keynotes, Featured and Invited Speakers
- INCOSE Internal Sessions - 9 K-TEC Sessions (16 hours) and a 2 hour Roundtable

NOTES: (1) The numbering of the presentations and tutorials in the boxes in the schedule corresponds to the EasyChair submission number (see "EasyChair Export Tab"). (2) The presentations in the above schedule have NOT YET been put into the order of presentation. They are generally in the EasyChair submission numbering order.

49 - (3 of 9)
Keys to Effective Chapters Workshop
Jack Stein and Mary Malast

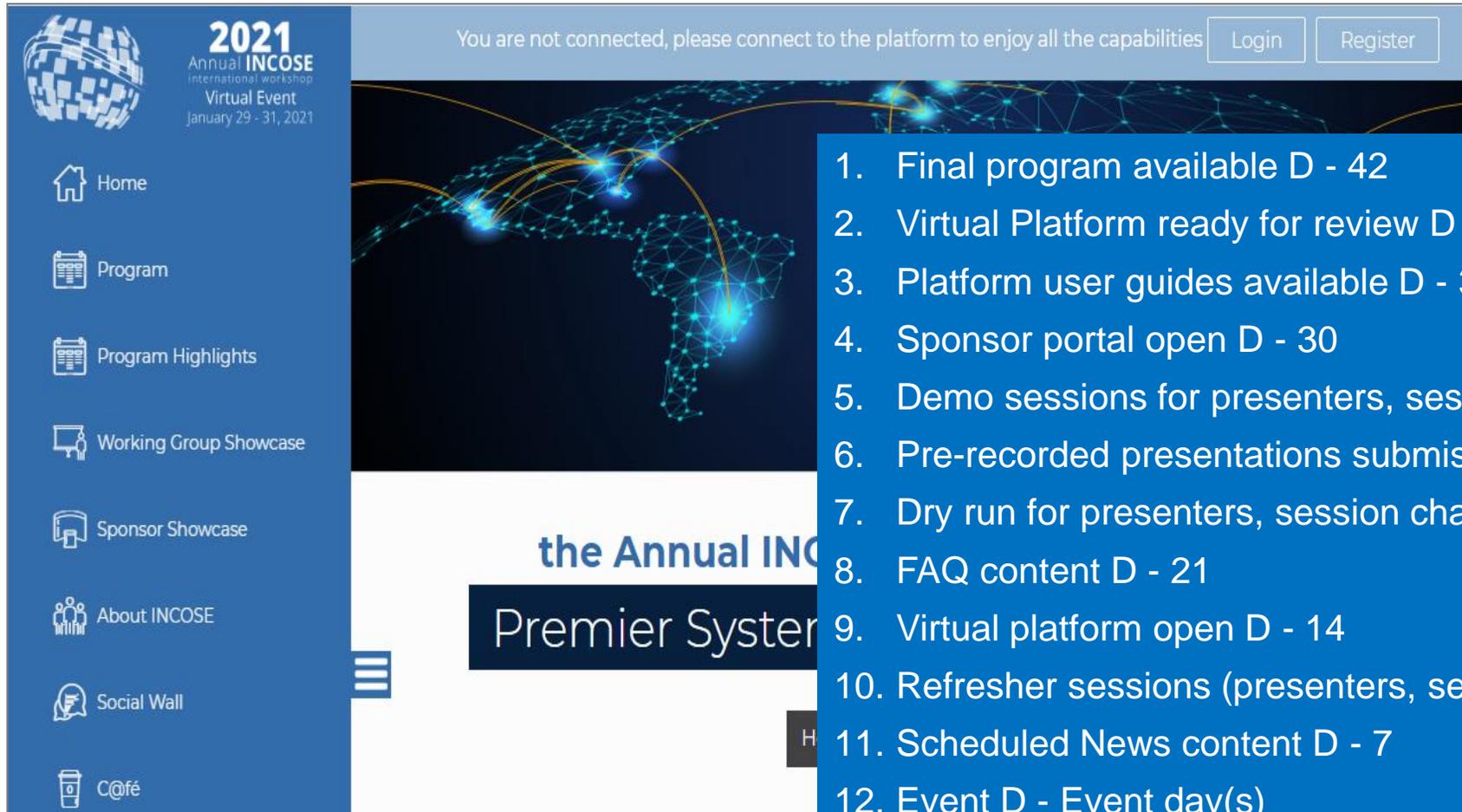
49 - (4 of 9)
Keys to Effective Chapters Workshop
Jack Stein and Mary Malast

49 - (5 of 9)
Keys to Effective Chapters Workshop
Jack Stein and Mary Malast

Preliminary DRAFT

Please do not forward or distribute.

KMD Events (Deliverables and Timeline)



1. Final program available D - 42
2. Virtual Platform ready for review D - 35
3. Platform user guides available D - 30
4. Sponsor portal open D - 30
5. Demo sessions for presenters, session chairs, hosts D - 25
6. Pre-recorded presentations submission deadline D - 21
7. Dry run for presenters, session chairs, hosts D - 21
8. FAQ content D - 21
9. Virtual platform open D - 14
10. Refresher sessions (presenters, session chairs, hosts) D - 7
11. Scheduled News content D - 7
12. Event D - Event day(s)
13. Virtual platform closed D + 14
14. Archive video content link D + 31

Timeline and Deliverables to KMD Events

Virtual Event Project Timeline

Countdown

Dates

- Final program available	D - 42	26-Feb
- Virtual Platform ready for review	D - 35	5-Mar
- Platform user guides available	D - 30	10-Mar
- Sponsor portal open	D - 30	10-Mar
- Demo sessions for presenters, session chairs, hosts	D - 25	15-Mar
- Pre-recorded presentations submission deadline	D - 21	19-Mar
- Dry run for presenters, session chairs, hosts	D - 21	19-Mar
- FAQ content	D - 21	19-Mar
- Virtual platform open	D - 14	26-Mar
- Refresher sessions (presenters, session chairs, hosts)	D - 7	2-Apr
- Scheduled News content	D - 7	2-Apr
- Live Event	D - Event days	April 9-17

Presenter Deliverables and Dates (to be firmed up with KMD week of Feb 22)

1. Draft presentation slides – ASAP but please by Feb 23
 - (1) “Draft” does not mean perfect. (2) NC-GLRC slide template is OPTIONAL.
2. Finalized date and time of presentation(s) – Feb 25
 - This includes Presentation Title, and Author/presenter names and title/affiliation
3. Bio, head-shot photo, updated abstract – ASAP but please by Mar 3
4. Signed IP Release Form and updated Presentations – Mar 8-19
5. OPTIONAL: Pre-recorded presentation – Upload by Mar 19
6. Participate in the KMD dry run – approximately Mar 19
7. Participate in KMD refresher session – approximately April 2



Things to Consider and Decide On In the Very Near-term

1. Are there specific dates and times in the April 9-17 conference schedule that you absolutely **CANNOT** support? Communicate now (today) if known.
2. Are there dates and times that you prefer strongly?
3. Do you want to pre-record your presentation? If so, would you use the recording as a primary or as a back-up?
4. Does your presentation involve live use of potentially problematic features or technologies (e.g., animation, playing videos)? If so, be sure to let your session chair and KMD know at the first opportunity.
5. Do you believe you will need conference support to do your recording, or are you comfortable doing it on your own or with support/resources from your employer, school, colleagues, family, friends, etc.?



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