

Meeting Name	Contact Name	Meeting day(s)	Start time	End time	Meeting Listing	Room	Meeting Description	Related WG	Type
Academic Council	Alejandro Salado	Sat, 28 Jan	15:00	17:30	Hybrid session	Salon G	Purpose: Assess status and future of the Academic Council.Objective: Share ideas and get feedback on what the Academic Council must achieve in the next 3 years.Structure: Dedicated presentations and discussions.Timing: 3 hours with a break in between.		Business Meeting
Agile Systems & SE WG General Meeting	Rick Dove	Tue, 31 Jan	08:00	10:30	Hybrid session	Salon A	Intro to the working group, a review of current project status, proposed new projects, mini-workshop maybe, and general discussion.	Agile Systems and Systems Engineering;;	Working Group
AI Effects on Systems Engineering	Barclay Brown, Ali Raz, Ramakrishnan Raman	Tue, 31 Jan	09:00	10:30	Hybrid session	Salon F	When AI is included in a system, how is the practice of systems engineering affected? At this workshop we invite leaders and SMEs from other working groups in INCOSE to come prepared to comment on what is known already and what is still to be discovered about this fascinating new technology. All are welcome at this workshop to participate or to observe. Agenda:- Introduction by AI Systems Leaders- Overview of current AI technologies and applications- Presentations/discussions by WG leaders and SMEs- Open discussion of needs: how AI affects SE	Artificial Intelligence Systems;;	Working Group
Americas Sector Chapter Leaders Orientation	renee Steinwand, Kevin Weinstein	Mon, 30 Jan	15:30	17:00	Hybrid session	Salon G	Chapter and Sector Leaders networking and training to learn more about INCOSE operations and leader responsibilities.		Business Meeting
Annual TWG Working and Planning Session	Dale Brown	Tue, 31 Jan	08:00	09:30	Hybrid session	Pier 1	Objective: Concentrated TWG planning session – in addition to both our monthly working meetings and the monthly joint webinars with APTA and RIG (UK).AGENDA: Introductions (time permitting) & Intro to the TWGTWG Organization & Call for volunteers APTA & INCOSE: MOU and on-going collaboration Member Impressions (open feedback from the last year) Overview of activities at and since IW2022- Co-chair remarks -Products Update: Standards, Newsletter, Case Studies- Events Update: IW, IS, Monthly Joint Webinars- Services Update: Website Update, LinkedIn, survey/census- Membership Update: Outreach, Contacts- Working Group Communications Plans for 2023 (see each item above) Workshops/Presentation 1 - APTA SLE Standard Project Update Workshops/Presentation 2 – Re-examining the MBSE potential	Transportation Working Group	Working Group
Applying Complexity Heuristics to RAE-UK Use Cases	Dean Beale, Dorothy McKinney	Sun, 29 Jan	16:00	17:30	Hybrid session	Pier 3	Case Study 1 (Timing set to enable Australasia sector remote participation) The purpose of this meeting is to assess the Heuristics and Complexity Assessment Tools developed by the Complex Systems Working Group against real world use cases developed by the Royal Academy of Engineering (UK) EngineeringX initiative. Objective: For participants to consider the value that the Heuristics can provide in their work with complex systems and for the CSWG to gain a view on which heuristics are most useful to the engineering community. Structure: Cases studies will be presented in increments and participants will be asked to assess the usefulness of heuristics or CAT questions for each increment. Timing: We expect the meeting to last between 1.5hrs-2hrs	Complex Systems;;	Working Group

Dean Beale, Dorothy McKinney	Mon, 30 Jan	10:30	12:30	Hybrid session	Pier 9	Case Study 1 (Timing set to enable European sector remote participation) The purpose of this meeting is to assess the Heuristics and Complexity Assessment Tools developed by the Complex Systems Working Group against real world use cases developed by the Royal Academy of Engineering (UK) EngineeringX initiative. Objective: For participants to consider the value that the Heuristics can provide in their work with complex systems and for the CSWG to gain a view on which heuristics are most useful to the engineering community. Structure: Cases studies will be presented in increments and participants will be asked to assess the usefulness of heuristics or CAT questions for each increment. Timing: We expect the meeting to last between 1.5hrs-2hrs	Complex Systems;;	Working Group
Dean Beale, Dorothy McKinney	Mon, 30 Jan	16:00	17:30	Hybrid session	Pier 9	Use Case 2 (Timing set to enable Australasia sector participation) The purpose of this meeting is to assess the Heuristics and Complexity Assessment Tools developed by the Complex Systems Working Group against real world use cases developed by the Royal Academy of Engineering (UK) EngineeringX initiative. Objective: For participants to consider the value that the Heuristics can provide in their work with complex systems and for the CSWG to gain a view on which heuristics are most useful to the engineering community. Structure: Cases studies will be presented in increments and participants will be asked to assess the usefulness of heuristics or CAT questions for each increment. Timing: We expect the meeting to last between 1.5hrs-2hrs	Complex Systems;;	Working Group
Dean Beale, Dorothy McKinney	Tue, 31 Jan	08:00	10:00	Hybrid session	Salon C	Use case 2 (timing set to allow European sector remote participation) The purpose of this meeting is to assess the Heuristics and Complexity Assessment Tools developed by the Complex Systems Working Group against real world use cases developed by the Royal Academy of Engineering (UK) EngineeringX initiative. Objective: For participants to consider the value that the Heuristics can provide in their work with complex systems and for the CSWG to gain a view on which heuristics are most useful to the engineering community. Structure: Cases studies will be presented in increments and participants will be asked to assess the usefulness of heuristics or CAT questions for each increment. Timing: We expect the meeting to last between 1.5hrs-2hrs	Complex Systems;;	Working Group

Applying the Digital Viewpoint Model	Terri Chan, Ken Zhang	Mon, 30 Jan	13:00	17:00	In person session	Salon F	<p>We strongly encourage proactive planning of the meeting agenda to maximize effectiveness and impact. The POST method is a simple way to give clarity before attendees join a meeting, and serves as a starting agenda outline. Purpose: Applying the Digital Viewpoint Model to create new digital views Objective: o The objective of the DVM workshop is to guide and promote the usage of the DVM concept for specifying digital viewpoints. An overview of DVM concepts will be presented, then the group will use such concepts to define digital viewpoints given an pre-defined user story.</p> <p>o Set up a common stakeholder definition – System Integrator (Acquirer) and Contractor (Supplier)</p> <p>o Participants will portray the Contractor with a common sample spec sheet</p> <p>.</p> <p>Maybe some want to portray the System Integrator</p> <p>Structure: Participants will be broken up into groups with a different perspective/need to address with the spec sheet. Groups will use DVM to specify and present digital view concepts (may include notional implementation ideas) for their assigned perspective and needs Timing: 4 hours with breakout sessions and table debriefs.</p>	Digital Engineering Information Exchange;;	Working Group
Architecture Working Group Meetings	Anand Kumar, Jean-Luc Garnier, Rolf Siegers	Sat, 28 Jan	13:00	17:30	Hybrid session	Salon H	<p>Purpose of the IW 2023 Architecture Working Group (ArchWG) meeting: To identify future products and activities that are in alignment with the Future of Systems Engineering initiative To improve adoption of architectures in systems engineering To liaise with external architecture communities and other INCOSE working groups and identify products and activities to which the ArchWG can contribute To explore the architecture landscape to understand what is going on outside that we need to know about and participate in To update the ArchWG about the status of the ongoing architecture-related products, activities and competencies To help each other and the community do better Architecting To brief on the new INCOSE ArchWG collaborative platform</p>	Architecture;	Working Group
	Anand Kumar, Jean-Luc Garnier, Rolf Siegers	Sun, 29 Jan	15:00	17:30	Hybrid session	Salon H	<p>Purpose of the IW 2023 Architecture Working Group (ArchWG) meeting: To identify future products and activities that are in alignment with the Future of Systems Engineering initiative To improve adoption of architectures in systems engineering To liaise with external architecture communities and other INCOSE working groups and identify products and activities to which the ArchWG can contribute To explore the architecture landscape to understand what is going on outside that we need to know about and participate in To update the ArchWG about the status of the ongoing architecture-related products, activities and competencies To help each other and the community do better Architecting To brief on the new INCOSE ArchWG collaborative platform</p>	Architecture;	Working Group

	Anand Kumar, Jean-Luc Garnier, Rolf Siegers	Mon, 30 Jan	10:30	17:30	Hybrid session	Pier 7	Purpose of the IW 2023 Architecture Working Group (ArchWG) meeting:To identify future products and activities that are in alignment with the Future of Systems Engineering initiativeTo improve adoption of architectures in systems engineeringTo liaise with external architecture communities and other INCOSE working groups and identify products and activities to which the ArchWG can contributeTo explore the architecture landscape to understand what is going on outside that we need to know about and participate inTo update the ArchWG about the status of the ongoing architecture-related products, activities and competenciesTo help each other and the community do better ArchitectingTo brief on the new INCOSE ArchWG collaborative platform	Architecture;	Working Group
Automotive Working Group Session	Gary Rushton, Alain Dauron	Mon, 30 Jan	10:30	12:00	Hybrid session	Pier 2	We strongly encourage proactive planning of the meeting agenda to maximize effectiveness and impact. The POST method is a simple way to give clarity before attendees join a meeting, and serves as a starting agenda outline.Purpose: What is the purpose of the meeting? AWG Working MeetingObjective: What are you trying to achieve in the meeting, and what does success look like? Review 2022 Accomplishments and Plan for 2023Structure: What is the structure of the meeting we are having? Follow AgendaTiming: How much time is allocated to the meeting? 1 hr 30 minutes	Automotive;;	Working Group
BKCASE Governing Board	Art Pyster	Sat, 28 Jan	15:00	16:30	Hybrid session	Pier 6	Purpose: Regular meeting of the BKCASE Governing Board. INCOSE is one of the 3 stewards of BKCASE, which maintains the Systems Engineering Body of Knowledge Objective: Review status of BKCASE, discuss and revise 2023 plans as needed, and make any decisions necessary to support those plans Structure: Each of the three steward organizations, including INCOSE, has two members of the Board of Governors. They will discuss business necessary to support planned releases of the SEBoK in 2023. The meeting is open to all interested persons.Timing: The meeting is set for 90 minutes.	Business Meeting;;	Business Meeting
Break	Marilee Wheaton	Sun, 29 Jan	13:00	17:30	Closed	Pier 5			Business Meeting
	Marilee Wheaton	Wed, 01 Feb	08:00	17:00	Closed	Pier 5			Business Meeting
	Marilee Wheaton	Thu, 02 Feb	08:00	12:00	Closed	Pier 5			Business Meeting
		Sat, 28 Jan	09:30	10:00		Ballroom Foyer			F&B
		Sat, 28 Jan	15:00	15:30		Ballroom Foyer			F&B
		Sun, 29 Jan	10:00	10:30		Ballroom Foyer			F&B
		Sun, 29 Jan	15:00	15:30		Ballroom Foyer			F&B
		Mon, 30 Jan	10:00	10:30		Ballroom Foyer			F&B
		Mon, 30 Jan	15:00	15:30		Ballroom Foyer			F&B
CAB meeting	Ron Giachetti, Mike Dahlberg, Donald M. York	Mon, 30 Jan	10:30	17:00	By invitation only	Salon D	The Corporate Advisory Board (CAB) will review the status of the CAB and its operations. The CAB will review and update the CAB Needs. Invited working groups will brief the CAB. Meeting open to CAB representatives.		Business Meeting
Certification exam		Sun, 29 Jan	08:00	11:00	Registration required	Pier 11	The INCOSE knowledge exam is offered on paper for conference participants interested in pursuing certification as Associate Systems Engineering Professionals (ASEPs) and Certified Systems Engineering Professionals (CSEPs). Contact: certification@incose.net		Business Meeting

		Tue, 31 Jan	08:00	11:00	Registration Pier 11 required		The INCOSE knowledge exam is offered on paper for conference participants interested in pursuing certification as Associate Systems Engineering Professionals (ASEPs) and Certified Systems Engineering Professionals (CSEPs). Contact: certification@incose.net		Business Meeting
Closing Plenary		Tue, 31 Jan	11:30	12:00	Hybrid session and Available for Replay	Salon D			Plenary
Competency Working Group	Clifford Whitcomb, Lori Zipes	Sun, 29 Jan	10:30	18:00	Hybrid session	Salon B	WelcomeStatus of SECAG publicationAction Item List StatusPrioritize work items for IW and beyond	Competency;;	Working Group
	Clifford Whitcomb, Lori Zipes	Mon, 30 Jan	10:30	12:00	Hybrid session	Pier 11	Action Item List StatusPrioritize work items for IW and beyond	Competency;;	Working Group
	Clifford Whitcomb, Lori Zipes	Tue, 31 Jan	08:00	09:30	Hybrid session	Pier 4	Action Item List StatusPrioritize work items for IW and beyond	Competency;;	Working Group
Complex Systems Working Group Kickoff	Michael Watson	Sat, 28 Jan	15:30	17:30	Hybrid session	Pier 4	Kickoff and Overview of CSWG activities, meetings, and joint meetings at the IW2023.	Complex Systems	Working Group
Configuration Management Working Group Meeting	Aleksander Przybylo, Adriana D'Souza, Aryes Lahiry, Dale Brown	Sun, 29 Jan	10:30	12:00	Hybrid session	Pier 7	Purpose: Review achievements 2022 and plan future activities.Objective: Identification of deliverables for 2023 and leaders for the topics.Structure: Short intro into WG activities and working session for WG topics. Timing: 1h30	Configuration Management;;	Working Group
Core Events Committee	Donna Long	Tue, 31 Jan	07:00	08:00	In person session	Hideaway	IW wrap upClosing plenary slidesOther tasks as necessary	Business Meeting;;	Business Meeting
CSWG Heuristics Focus Group Update	Michael Watson	Sun, 29 Jan	15:30	17:30	Hybrid session	Salon F	Discussion of the continuing work on Complex Systems Heuristics and progress made by the focus group of the past year.	Complex Systems	Working Group
Day 1 Wrapup Q&A	Troy Peterson, Mark Sampson	Sat, 28 Jan	16:30	17:00	Hybrid session and Available for Replay	Salon E	Summary of the day's events overview of tomorrow's happenings		MBSE Workshop
Decision Analysis Data Model	Frank Salvatore, Jared Smith, Greg Parnell	Sun, 29 Jan	13:30	16:30	Hybrid session	Salon C	AgendaReview the Project Plans, goals, and success criteria for the Decision Analysis Data Model (DADM) Product being developed by the Decision Analysis Working Group. The intent is to Inform the community of the effort, to gather input and feedback, secure resource that may want to be an active participant in the effort. Review the Decision Analysis Data Model (DADM)Review Decision Analysis Data Model survey results and work to incorporate them into the DADMCrosswalk the DADM against the SysML V2 spec and the OMG DMN.	Decision Analysis;Digital Engineering Information Exchange;Knowledge Management;MBSE Initiative;MBSE Patterns;Process Improvement;Requirements;Tools Integration & Model Lifecycle Management;;	Working Group

	Frank Salvatore, Jared Smith, Greg Parnell	Mon, 30 Jan	13:30	16:30	Hybrid session	Salon C	AgendaReview the Project Plans, goals, and success criteria for the Decision Analysis Data Model (DADM) Product being developed by the Decision Analysis Working Group. The intent is to Inform the community of the effort, to gather input and feedback, secure resource that may want to be an active participant in the effort. Review the Decision Analysis Data Model (DADM)Review Decision Analysis Data Model survey results and work to incorporate them into the DADMCrosswalk the DADM against the SysML V2 spec and the OMG DMN.	Decision Analysis;Digital Engineering Information Exchange;Knowledge Management;MBSE Initiative;MBSE Patterns;Process Improvement;Requirements;Tools Integration & Model Lifecycle Management;;	Working Group
Defense Systems	Karl C. Geist, Roger Rosewall, Kevin Devaney, Mary Bridson, Carl Landrum, Shelley Higgins	Sat, 28 Jan	13:00	15:00	Hybrid session	Salon B	Defense Systems WG (DSWG) promotes development of systems engineering (SE) best practices to address any special issues faced by Defense Systems SE practitioners and managers.. become a conduit for networking and creating/exchanging best practice SE knowledge for the defense systems community.IW2023 agenda includes:Review and if needed vote for new leadershipEstablish a regular meeting schedule, at least monthlyDecide on means of sharing/information disseminationDetermine candidate topics to work and delegate leads	Defense Systems WG;	Working Group
DEIX Standards	Celia Tseng, Missy Wallace	Sun, 29 Jan	10:30	12:00	Hybrid session	Salon F	DEIX standards activity overview and definition development	Digital Engineering Information Exchange;;	Working Group
	Celia Tseng, Missy Wallace	Mon, 30 Jan	11:00	12:00	Hybrid session	Salon H	DEIX digital engineering guide standard project planning session 1	Digital Engineering Information Exchange;;	Working Group
	Celia Tseng, Missy Wallace	Mon, 30 Jan	13:00	14:00	Hybrid session	Salon H	DEIX digital engineering guide standard project planning 2	Digital Engineering Information Exchange;;	Working Group
Digital Engineering Information Exchange Working Group Leadership	Terri Chan, Ken Zhang	Sat, 28 Jan	13:00	15:00	In person session	Pier 3	Purpose: DEIXWG leadership meetingObjective: Revise WG charter; Discuss organizational structure and leadership.Structure: Business meeting for leadership team (closed session)Timing: 2 hours	Digital Engineering Information Exchange;;	Business Meeting
Digital Engineering Information Exchange Working Group Overview and 2023 Plan	Terri Chan, Sean McGervey	Sat, 28 Jan	16:00	17:30	Hybrid session	Pier 2	We strongly encourage proactive planning of the meeting agenda to maximize effectiveness and impact. The POST method is a simple way to give clarity before attendees join a meeting, and serves as a starting agenda outline.Purpose: Overview of DEIXWG as a working group, structure, and work planned for 2023-24Objective: Information and recruitment of new members to work on WG goalsStructure: Presentation and Q&ATiming: 1.5 hour	Digital Engineering Information Exchange;;	Working Group
Digital Engineering Measurement Framework	Tom McDermott	Mon, 30 Jan	16:00	17:00	Hybrid session	Pier 3	The Digital Engineering Measurement Framework version 1.1 was published in 2022 as a consensus framework across multiple professional organizations. The initial version was published despite a lack of experience in digital engineering measurement in order to provide initial guidance to the community on where to start. The group is starting to work on version 2 of the framework to capture experience to date as well as increase the number of metric specifications. This meeting will introduce the current version of the framework and discuss its development. The current framework can be downloaded from the INCOSE store or from the PSM website at https://psmsc.com/DEMeasurement.asp .	MBSE Initiative;Measurement ;;	Working Group

	Tom McDermott	Tue, 31 Jan	08:00	10:30	Hybrid session	Pier 2	The Digital Engineering Measurement Framework version 1.1 was published in 2022 as a consensus framework across multiple professional organizations. The initial version was published despite a lack of experience in digital engineering measurement in order to provide initial guidance to the community on where to start. The group is starting to work on version 2 of the framework to capture experience to date as well as increase the number of metric specifications. This meeting will enlist working members of the group, define a candidate set of metrics for version 2, and establish a roadmap for publication. If you are interested in contributing to this effort please join the meeting.	MBSE Initiative;Measurement ;;	Working Group
Digital Engineering Tool Selection Criteria	Frank Salvatore	Mon, 30 Jan	10:30	12:00	Hybrid session	Salon C	This meeting is to review and collaborate on the Digital Engineering Tool Selection Criteria product that the Department of Defense, Office Under the Secretary of Defense for Research and Engineering (OUSD(R&E)) is working on. This product will serve as guidance to help the community improve upon and accelerate the process for making tool choices. This effort is motivated by the DoD's Digital Engineering Strategy which requires organizations to be more mindful about developing their engineering environment or the Digital Engineering Ecosystem.Agenda:Present the current version of the DE Tool Selection Criteria.Breakout session to review/critique and extend the criteriaUse case DiscussionThe plan is to have this product complete in time for the 2023 International Symposium.Please join the sessions and help out.	Decision Analysis;Digital Engineering Information Exchange;Knowledge Management;Process Improvement;Requirements;SE Tools Database;Tools Integration & Model Lifecycle Management;;	Working Group
	Frank Salvatore	Tue, 31 Jan	08:00	10:00	Hybrid session	Salon H	This meeting is to review and collaborate on the Digital Engineering Tool Selection Criteria product that the Department of Defense, Office Under the Secretary of Defense for Research and Engineering (OUSD(R&E)) is working on. This product will serve as guidance to help the community improve upon and accelerate the process for making tool choices. This effort is motivated by the DoD's Digital Engineering Strategy which requires organizations to be more mindful about developing their engineering environment or the Digital Engineering Ecosystem.Agenda:Present the current version of the DE Tool Selection Criteria.Breakout session to review/critique and extend the criteriaUse case DiscussionThe plan is to have this product complete in time for the 2023 International Symposium.Please join the sessions and help out.	Decision Analysis;Digital Engineering Information Exchange;Knowledge Management;Process Improvement;Requirements;SE Tools Database;Tools Integration & Model Lifecycle Management;;	Working Group
Discovering MoSSEC - the Meta Language for SE Collaboration	John Nallon, Kyle Hall	Mon, 30 Jan	10:30	12:00	Hybrid session	Pier 5	MoSSEC (ISO 10303-AP243) is the ISO recognized definition and language for recording and sharing Modeling and Simulation metadata – enabling software solutions to digitally capture and share on behalf of the engineer the rationale, goals, assumptions, maturity levels, and limitations of their models in a common language. This workshop will discuss the latest MoSSEC tool implementations that meet specific key use cases such as PLM interoperability, model reuse and model-based collaboration with suppliers. We will also conduct interactive exercises and discuss practical activities of MoSSEC interoperability. Topics to be covered: the Value of MoSSEC, PLM Interoperability and the Digital Thread, Long Term Archival and Retrieval of models, OEM Supplier Tech Data Package collaboration, Applying MoSSEC at Airbus, Model Information Cards, MoSSEC and OSLC, and an open Discussion of MoSSEC Interoperability.	Tools Integration & Model Lifecycle Management;;	Working Group

	John Nallon, Kyle Hall	Mon, 30 Jan	13:00	15:00	Hybrid session	Pier 5	MoSSEC (ISO 10303-AP243) is the ISO recognized definition and language for recording and sharing Modeling and Simulation metadata – enabling software solutions to digitally capture and share on behalf of the engineer the rationale, goals, assumptions, maturity levels, and limitations of their models in a common language. This workshop will discuss the latest MoSSEC tool implementations that meet specific key use cases such as PLM interoperability, model reuse and model-based collaboration with suppliers. We will also conduct interactive exercises and discuss practical activities of MoSSEC interoperability. Topics to be covered: the Value of MoSSEC, PLM Interoperability and the Digital Thread, Long Term Archival and Retrieval of models, OEM Supplier Tech Data Package collaboration, Applying MoSSEC at Airbus, Model Information Cards, MoSSEC and OSLC, and an open Discussion of MoSSEC Interoperability.	Tools Integration & Model Lifecycle Management;;	Working Group
	John Nallon, Kyle Hall	Mon, 30 Jan	15:30	17:30	Hybrid session	Pier 5	MoSSEC (ISO 10303-AP243) is the ISO recognized definition and language for recording and sharing Modeling and Simulation metadata – enabling software solutions to digitally capture and share on behalf of the engineer the rationale, goals, assumptions, maturity levels, and limitations of their models in a common language. This session will be an open forum to discuss the continuation of information exchange using user and implementor forums. We encourage and welcome tool vendors and MBS practitioners (users) to participate.	Tools Integration & Model Lifecycle Management;;	Working Group
DoD Transition Guidance to SysML V2 Workshop	Frank Salvatore, Sanford Friedenthal, Emily Bak	Mon, 30 Jan	16:00	18:00	Hybrid session	Salon H	This workshop will review DoD’s plans to develop a transition guide that will aid the DoD with making the transition to SysML 2.0. The workshop will elicit input from attendees on the following topics: What should be included in such a guide? Who is already working on such a guide and may be open to collaborating? What challenges might there be when transitioning? How do we help organizations make the decision to transition?		Working Group
EMEA Sector II meeting	Sven-Olaf Schulze	Sun, 29 Jan	11:00	12:00	Hybrid session	Hideaway	EMEA chapter leader meeting and interested participants Proposed agenda:1) Welcome and Introduction2) Overview about INCOSE / EMEA activities & value of EMEA sector3) Try to invite President / president elect / certification4) Collection of topics from participants5) Discussion6) Summary and conclusion	Business Meeting;;	Business Meeting
Emerging Trends in Systems Engineering Leadership	Alice Squires, Maria Romero, Anabel Fraga	Mon, 30 Jan	15:30	17:00	Hybrid session	Salon A	Systems engineers are leaders and problem solvers. To be the best leaders, we need to continually adapt our leadership styles to inspire and guide our teams through an ever-changing complex global future and together realize optimal solutions to real world problems. Please join us to discuss research addressing the impact of social and technological trends on systems engineering leadership. This will be a series of interactive talks on various topics that address emerging trends in systems engineering leadership and how leadership needs to evolve. Attendees will have the chance to consider next steps in creating their own leadership vision and action plan for personal mastery in systems engineering leadership.	Architecture;Competency;Digital Engineering Information Exchange;Professional Competencies & Soft Skills;Social Systems;DEI and EWLSE;	Working Group
Events Committee Meeting	Donna Long	Sat, 28 Jan	15:30	17:00	Hybrid session	Hideaway	IS 2023IS 2024Events Portfolio	Business Meeting;;	Business Meeting
Events Committee Stakeholder Meeting	Donna Long	Mon, 30 Jan	13:00	14:00	Hybrid session	Pier 8	Purpose: To review events planning for the year with the stakeholdersObjective: An understanding of events objectives for the year.Structure: PresentationTiming: An hour	Business Meeting;;	Business Meeting
Exploring opportunity space using trade-offs	Curt McNamara, Alex Wolf	Sun, 29 Jan	10:30	12:00	Hybrid session	Salon C	Purpose: Gamify a set of universal trade-offs and parameters, finding the overlap of biology and engineering instances.Objective: We will be workshoping from Julian Vincent’s 8 years condensing the Inventive Principle and Parameter spaces as reimagined into visual graphic icons by Alex Wolf for the purpose of visualizing models.Structure: The intention is to gamify the learning process. We will print cards to play with in person and provide a link for card sets for participants to work with.	Natural Systems;;	Working Group
Fellows Policy Group	David Long	Mon, 30 Jan	07:00	07:45	Closed	Pier 1			Business Meeting

FuSE Core Team	Bill Miller, Martina Feichtner	Sat, 28 Jan	17:00	19:00	Closed	Pier 6		Business Meeting
	Bill Miller, Martina Feichtner	Sun, 29 Jan	13:00	17:00	Closed	Pier 6		Business Meeting
	Bill Miller, Martina Feichtner	Mon, 30 Jan	13:00	17:00	Closed	Pier 6		Business Meeting
	Bill Miller, Martina Feichtner	Tue, 31 Jan	08:00	12:00	Closed	Pier 6		Business Meeting
FuSE Keynote	Dr. Oli de Weck, Bill Miller, Martina Feichtner	Sat, 28 Jan	10:00	11:00	Hybrid session and Available for Replay	Salon DE		Plenary
FuSE Working Sessions: Systems Engineering Application Extensions Stream	Bill Miller, Martina Feichtner, Tom Strandberg	Sat, 28 Jan	14:00	17:00	In person session	Salon C		FuSE
	Bill Miller, Martina Feichtner, Tom Strandberg	Sun, 29 Jan	08:00	10:00	In person session	Salon C		FuSE
	Bill Miller, Martina Feichtner, Tom Strandberg	Mon, 30 Jan	08:00	10:00	In person session	Salon C		FuSE
FuSE Working Sessions: Systems Engineering Foundations Stream	Bill Miller, Martina Feichtner, Dr. Oli de Weck	Sat, 28 Jan	14:00	17:00	In person session	Salon A		FuSE
	Bill Miller, Martina Feichtner, Dr. Oli de Weck	Sun, 29 Jan	08:00	10:00	In person session	Salon A		FuSE
	Bill Miller, Martina Feichtner, Dr. Oli de Weck	Mon, 30 Jan	08:00	10:00	In person session	Salon A		FuSE
FuSE Working Sessions: Systems Engineering Methodologies Stream	Bill Miller, Martina Feichtner, Christopher Hoffman	Sat, 28 Jan	14:00	17:00	In person session	Salon D		FuSE
	Bill Miller, Martina Feichtner, Christopher Hoffman	Sun, 29 Jan	08:00	10:00	In person session	Salon D		FuSE
	Bill Miller, Martina Feichtner, Christopher Hoffman	Mon, 30 Jan	08:00	10:00	In person session	Salon D		FuSE
FuSE Working Sessions: Systems Engineering Vision and Roadmaps Stream	Bill Miller, Martina Feichtner, Paul Schreinemakers	Sat, 28 Jan	14:00	17:00	In person session	Lighthouse Ballroom		FuSE
	Bill Miller, Martina Feichtner, Paul Schreinemakers	Sun, 29 Jan	08:00	10:00	In person session	Lighthouse Ballroom		FuSE
	Bill Miller, Martina Feichtner, Paul Schreinemakers	Mon, 30 Jan	08:00	10:00	In person session	Lighthouse Ballroom		FuSE
Handbook Editor Meeting	David Walden	Sat, 28 Jan	13:30	18:00	Closed	Pier 9	Coordination with the INCOSE SE Handbook editors to finalize and publish the Fifth SE Handbook; Edition of the handbook.	Working Group
	David Walden	Mon, 30 Jan	10:30	12:00	Closed	Pier 1	Coordination with the INCOSE SE Handbook editors to finalize and publish the Fifth SE Handbook; Edition of the handbook.	Working Group
	David Walden	Tue, 31 Jan	08:00	10:00	Closed	Hideaway	Coordination with the INCOSE SE Handbook editors to finalize and publish the Fifth SE Handbook; Edition of the handbook.	Working Group

Heuristics Team	Dorothy McKinney, Juan Amenabar	Sun, 29 Jan	07:30	08:00	Hybrid session	Pier 1	The Heuristics Team will meet to discuss progress and priorities going forward.	Fellows Heuristics Team;	Working Group
Horizon Scanning Initiative	Tom McDermott	Mon, 30 Jan	17:00	18:00	In person session	Pier 1	This is a closed bi-invitation only meeting of the INCOSE Horizon Scanning Initiative. We maintain it as closed/invitation-only so that organizations who are horizon scanning systems engineering futures can share proprietary/controlled information.	Business Meeting;;	Business Meeting
How to apply for Academic Equivalency	Courtney Wright	Sun, 29 Jan	13:00	15:00	In person session	Pier 7	This meeting is to share information from the INCOSE Certification Program with university representatives and other stakeholders who are interested in Academic Equivalency (AcEq). Attendees will learn whether their courses are qualified to apply for AcEq. They will gather the needed application forms and identify the next steps for their application process. This meeting will be successful if participants apply for Academic Equivalency in 2023. The meeting will be in-person only to promote comfortable, easy communication and discussion of specific situations. A follow-on will be offered remotely. Webinar 162 is a recommended accompaniment to the meeting. The meeting is scheduled for 2 hours and will be interactive; participants should bring a computer so they can download and work on application materials during the meeting.	Certification;	Working Group
How to apply for CSEP	Courtney Wright	Tue, 31 Jan	08:00	09:00	In person session	Pier 7	This meeting is to share information from the INCOSE Certification Program with individuals who are interested in applying to become Certified Systems Engineering Professionals (CSEP). Attendees will learn about the requirements for CSEP. They will gather the needed application forms and identify the next steps for their application process. This meeting will be successful if participants apply for CSEP in 2023. The meeting will be in-person only to promote comfortable, easy communication and discussion of specific situations. A follow-on will be offered remotely. The meeting is scheduled for 90 minutes and will be interactive; participants should bring a computer and a copy of their resume or LinkedIn profile. They will download and work on application materials during the meeting.	Certification;	Working Group
How to apply for ESEP	Courtney Wright	Sun, 29 Jan	15:30	17:00	In person session	Pier 7	This meeting is to share information from the INCOSE Certification Program with individuals who are interested in applying to become Expert Systems Engineering Professionals (ESEP). Attendees will learn about the requirements for ESEP. They will gather the needed application forms and identify the next steps for their application process. This meeting will be successful if participants apply for ESEP in 2023. The meeting will be in-person only to promote comfortable, easy communication and discussion of specific situations. A follow-on will be offered remotely. The meeting is scheduled for 90 minutes and will be interactive; participants should bring a computer and a copy of their resume or LinkedIn profile. They will download and work on application materials during the meeting.	Certification;	Working Group

How to renew ASEP or CSEP certification	Courtney Wright	Tue, 31 Jan	09:00	10:00	In person session	Pier 7	This meeting is to share information from the INCOSE Certification Program with ASEPs, CSEPs, INCOSE chapter leaders, and other stakeholders who are interested in helping SEPs renew their INCOSE certification. Attendees will learn activities they can do to continue their professional development, and how to document it. They will gather the needed forms and plan their future renewal. This meeting will be successful if participants find certification renewal easier. The meeting will be in-person only to promote comfortable, easy communication and discussion of specific situations. The meeting is scheduled for 1 hour and will be interactive, with time for questions and hypotheticals.	Certification;	Working Group
Human Agency in Large Social Systems: A Systems Science Transdisciplinary Journey	Sue Gabriele, Charlotte Dunford	Sat, 28 Jan	15:30	17:30	Hybrid session	Pier 5	1. Given: In large social systems (SS), there is great difficulty in pinpointing and understanding cause-effect2. A GST framework helps clarify two key types of cause: material/mechanical/technical cause vs. human cause3. Root Causes are found in each human's CAP (Cognitive, Affective, Physical) drivers, with evidence, elaboration4. Implications for human relationships in small SS—pair, team and room size5. Implications for human relationships in large SS—multisite corporations and institutions	Social Systems Working Group;	Working Group
IEC Meeting	Richard Martin	Tue, 31 Jan	09:30	10:00	Hybrid session	Pier 4			Business Meeting
INCOSE 2023 IW OpenMBEE Workshop	Fatma Karagoz, Robert Karban, Chris Delp, Karina Martinez, Daniel Siegl, Lucas Aviles, Robbie Robertson	Mon, 30 Jan	10:30	17:00	Hybrid session	Salon E	As in recent years, the 2023 workshop is a joint collaboration between OpenMBEE/NumFOCUS and the INCOSE Digital Ecosystems (DECO) Challenge Team (which is part of the INCOSE MBSE Initiative).Location: Torrance, CA in person and virtually Aerospace Lead: @Karina Martinez LieberLieber Lead: @Daniel Siegl Boeing Lead: Lucas AvilesAgenda: The OpenMBEE workshop will consist of presentations and talks on Monday, followed by a vendor digital poster session on Tuesday morning. TimePresentersPresentation TitleDescription9:00 AM - 9:10 AMOpening and Welcome 9:10 AM - 9:40 AMKeynote (Karina will check with Aerospace)9:40 AM - 10:00 AMRussell MBSE Metrics and INCOSE WG Break10:00 AM -10:20 AMRobert KarbanOpen Space IntroOpen Space concept and organization10:20 AM - 10:45 AMAerospace MTIP 10:45 AM - 11:10 AMGoogle 11:10 AM - 11:35 PMBlackburnSpace Force 11:35 AM - 12:00 PMBoeing 12:00 PM - 1:00 PMLunch1:05 PM - 3:00 PMOpen Space/Unconference sessions3:00-3:30 PMBreak3:30 PM - 3:55 PMOpen Space Outbrief3:55 PM - 4:00 PMBreak (Fishbowl preparation)4:00 PM - 5:00 PMFishbowl	OpenMBEE Community; Working Group	
	Fatma Karagoz, Robert Karban, Chris Delp, Karina Martinez, Daniel Siegl, Lucas Aviles, Robbie Robertson	Tue, 31 Jan	08:00	10:00	Hybrid session	Salon E	Time 9:00 AM - 10:30 AMVendor Poster Sessions10:30-11:00Break11:00 AM - 11:45 AMOpen Space/Unconference Sessions11:45 AM - 12:00 PMWrap-up		OpenMBEE Community; Working Group
INCOSE EMEA WSEC 2023 committee meeting	Anabel Fraga	Tue, 31 Jan	09:00	10:00	Hybrid session	Pier 8	This meeting is set to discuss the EMEA WSEC program, reviews, and the status of the event. It replace the regular meeting of the committee that week. It will be a hybrid session.Agenda: Event Organizing Team Stable Event Planning/Schedule Timing / Timeline Program and Reviews Finances AOB It is a closed event.	Business Meeting;Events EMEA;	Business Meeting

INCOSE Fellows Meeting	Danielle DeRoche, Bob Kenley, Michael Ryan	Mon, 30 Jan	10:30	12:00	Closed	Salon A	Purpose: General Fellows Business / PresentationsObjective: Structure: Agenda will be set closer to IW. Timing: 90 minutes	INCOSE Fellows;	Business Meeting
INCOSE Fellows Selection Committee	Danni DeRoche, Bob Kenley, Michael Ryan	Sun, 29 Jan	10:30	12:00	Closed	Salon A	Purpose: Review & selection of INCOSE Fellows NominationsObjective: The 9 FSC members will vote on the Fellows nominations. Structure: Open discussion; followed by a closed vote. Timing: 90 minutes, but will go through lunch if needed.	INCOSE Fellows;	Business Meeting
INCOSE Foundation Board Meeting	Holly Witte	Sat, 28 Jan	13:00	15:00	Hybrid session	Hideaway	INCOSE Foundation Q1 Board Meeting	Business Meeting;INCOSE Foundation;	Business Meeting
INCOSE Foundation Soirée sponsored by the Corporate Advisory Board		Sat, 28 Jan	19:00	21:00	In person session	Lighthouse Ballroom			Social Event
INCOSE IT and INCOSE Services Office Hours	Heidi Davidz, Molly Kovaka	Mon, 30 Jan	15:30	17:00	Hybrid session	Pier 1	Representatives from the INCOSE IT and INCOSE Services organizations will be available to answer member questions about current offerings.Purpose: Provide answers for member questions regarding INCOSE IT and INCOSE ServicesObjective: Questions answered, and any actions identifiedStructure: Question-and-answer session in first-come, first-served orderTiming: 90 minutes	INCOSE IT and Services; Working Group	
INCOSE Services - how can they help your working group (or you help services)?	Richard Beasley	Mon, 30 Jan	10:30	12:30	Hybrid session	Pier 10	The purpose of this meeting is to share information about INCOSE services (current and in-development) with members of WGs - and generate an understanding of what Working Groups can contribute to services, and what services can do to help make their product / working group output more useable and accessible (in line with trying to be sharing the emerging standards / practices in SE and contributing to professional development) I want this session to go beyond what the Certification and Events (which everyone should know about) and the Professional Development Portal (which will be discussed in separate sessions) and to discuss other services - both those existing and in development (e.g. Mentoring, SE online Lab for MBSE etc.) , and if appropriate generate ideas for new services The agenda for session will be as follows:General introduction to services – what we currently do, what we are developing and what we currently have planned / in developmentGroup discussion on how can these (or other as yet undetermined) services help the WGs (fulfil the mission of INCOSE and meet the expectations of INCOSE members)?Group discussion on how the WGs can help the services (e.g., provide content, prepare specific material, etc.)Conclusion - main points raised to feed either to Service owners or to Working Groups	Services;	Working Group
INCOSE Services Integration Model: Overview and Discussion	Heidi Davidz, Randall Satterthwaite	Mon, 30 Jan	13:00	14:00	Hybrid session	Salon G	An INCOSE Services Integration Model is being used to optimize delivery of INCOSE services to members. The vision is to link strategy, stakeholder needs, technical operations, service delivery, and member feedback to ensure the INCOSE Services team provides timely, relevant value to members. Existing services have been captured, and linkage to the SE Vision 2035 is in work. In this session, an overview of the model and current efforts will be given. Instructions on how to access the model information in the new INCOSE Online SE Lab will be provided. Participants will be encouraged to provide feedback and discuss additions.Purpose: Communicate the INCOSE Services Integration Model activities and solicit feedbackObjective: Overview of modeling activity provided, and participant feedback gatheredStructure: 20-minute overview of modeling activity and 40-minute discussionTiming: One hour	MBSE Initiative;Services;	Working Group

INCOSE/ISSS Roundtable: Theories about modeling social domains for science and practice	Randy Anway, Gary Smith	Sat, 28 Jan	14:00	15:30	Hybrid session	Pier 10	This session will explore the theme of systemic activity as theory-building: how various systems thinking and engineering heuristics, and systems engineering principles trace to tangible work products in the context of continuous change and evolution, with a focus on modeling social domains. Learning goals: - Understand how systemic activity theory-building can be used in system science and engineering- Develop and test connections between systemic activity theory-building and tangible work products- Map benefits of using a human activity system framework in system science and engineering- Explore the modeling of social domains	Social Systems;	Working Group
Intro to bio-inspired design	Curt McNamara, Dennis Tuckowski, Brandon Ruffridge	Sat, 28 Jan	13:00	15:00	Hybrid session	Pier 1	The Natural Systems WG has released the primer on Natural Systems for SE. Part 1 of this session will review the major tools and how to use them. In Part 2, there will be an overview of circular design and how to use natural systems inspiration for it.	Natural Systems;;	Working Group
Introduction to the Social Systems WG	Dana Polojarvi	Sun, 29 Jan	10:30	11:30	Hybrid session	Pier 10	This session will introduce the Social SystemsWorking Group to new members on those people interested in joining.	Social Systems;	Working Group
IS 2023 TPC meeting	Robert Wirthlin, Anabel Fraga	Sat, 28 Jan	15:00	17:00	Hybrid session	Pier 3	Purpose: Technical Planning meeting for the International Symposium 2023 Technical ProgramObjective: Review status of all activities. By the end of the series of meetings, a draft 2023 Technical Program for IS2023Structure: Working groupTiming: Daily meeting - 2-4 hours daily	Business Meeting;;	Business Meeting
	Robert Wirthlin, Anabel Fraga	Sun, 29 Jan	11:00	16:00	Hybrid session	Pier 3	Purpose: Technical Planning meeting for the International Symposium 2023 Technical ProgramObjective: Review status of all activities. By the end of the series of meetings, a draft 2023 Technical Program for IS2023Structure: Working groupTiming: Daily meeting - 2-4 hours daily	Business Meeting;;	Business Meeting
	Robert Wirthlin, Anabel Fraga	Mon, 30 Jan	11:00	16:00	Hybrid session	Pier 3	Purpose: Technical Planning meeting for the International Symposium 2023 Technical ProgramObjective: Review status of all activities. By the end of the series of meetings, a draft 2023 Technical Program for IS2023Structure: Working groupTiming: Daily meeting - 2-4 hours daily	Business Meeting;;	Business Meeting
	Robert Wirthlin, Anabel Fraga	Tue, 31 Jan	08:00	10:00	Hybrid session	Pier 3	Purpose: Technical Planning meeting for the International Symposium 2023 Technical ProgramObjective: Review status of all activities. By the end of the series of meetings, a draft 2023 Technical Program for IS2023Structure: Working groupTiming: Daily meeting - 2-4 hours daily	Business Meeting;;	Business Meeting
Knowledge Management	Robert Nilsson, Jean Duprez	Sun, 29 Jan	14:00	16:00	Hybrid session	Pier 2	Purpose: Working Session on the PrimerObjective: Establish a baseline for the primerStructure: On site decisionTiming: 2hr	Knowledge Management;	Working Group
	Robert Nilsson, Jean Duprez	Mon, 30 Jan	10:30	12:00	Hybrid session	Pier 8	Collaboration meeting based on PrimerPurpose: New ideas and refinement of primer workObjective: CollaborationStructure: 1. Presentation of primer2. Presentation by Gary Smith 3. CollaborationTiming: 1.5 hrs	Knowledge Management;	Working Group
	Robert Nilsson, Jean Duprez	Mon, 30 Jan	14:00	15:30	Hybrid session	Pier 8	Purpose: Collaboration based on DIKW-pyramid in context of KM PrimerObjective: Insight and alignmentStructure: External presenter related to PrimerTiming: 1.5 hrs	Knowledge Management;	Working Group
Knowledge Mangement	Robert Nilsson, Jean Duprez	Sun, 29 Jan	10:30	12:00	Hybrid session	Pier 5	Purpose: Inform attendees of the year activity and plan aheadObjective: Information out and actions for 2023Structure: Outline based on 2022 core activitiesDetails of the conceptual primer with script will be presentedTiming: 1.5 hrs	Knowledge Management;;	Business Meeting
Laws of nature and systems science	Curt McNamara, Dennis Tuckowski, Swami Natarajan, Javier Calvo	Sun, 29 Jan	13:00	14:30	Hybrid session	Pier 1	How can we make the natural system models available to systems engineers? Please join us as we explore a variety of topics identified at IW2022 to advance the work.	Natural Systems;Systems Science;;	Working Group
Lunch		Sat, 28 Jan	12:00	13:00		Lighthouse Ballroom			F&B
		Sun, 29 Jan	12:00	13:00		Lighthouse Ballroom			F&B
		Mon, 30 Jan	12:00	13:00		Lighthouse Ballroom			F&B

Marketing and Social Media 101 Tutorial	Honor Lind, Jorge DaSilva	Mon, 30 Jan	15:30	16:30	In person session	Pier 8	The Marketing and Communications Team will share with members how to access INCOSE marketing and communication recourses and how to utilize them. The goal is to teach members how to build a basic branding marketing plan, a landing page for their website, and how to set up their social media for their working groups and chapters. Attend the session to learn tips and tricks for your marketing strategy		Business Meeting
MBSE Patterns Working Group	William Schindel	Sun, 29 Jan	13:00	15:00	Hybrid session	Salon A	Purpose: An open meeting of the INCOSE MBSE Patterns Working GroupMeeting Objectives: Refresher on MBSE Patterns Review of the MBSE Patterns WG Projects Planning future MBSE Patterns WG ProjectsAgenda13:00 – 13:15 PT Welcome and introduction to the MBSE Pattern Working Group's goals and focus 13:15 – 13:30 PT Introductions and interests of meeting participants (optional if group is too big) 13:30 – 14:00 PT Overview of MBSE Patterns subject matter and relevance 14:00 – 14:30 PT Status of current working group projects and activities; related Q&A and interests 14:30 – 15:00 PT Discussion of additional and future interests of attendees 15:00 PT Adjourn MBSE Patterns WG wiki site with historical materials: http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:patterns	MBSE Patterns;;	Working Group
MBSE Social with MBSE Propeller Hat Awards		Sun, 29 Jan	18:00	19:00	In person session	The Strand			Social Event
MBSE Standards Update	Bob , James Martin, Matthew Hause, Richard Martin	Sat, 28 Jan	13:50	15:00	Hybrid session and Available for Replay	Salon E			MBSE Workshop
Modeling Cognitive Diversity Across the System Lifecycle	Alice Squires, Maria Romero, Anabel Fraga	Mon, 30 Jan	13:00	15:00	Hybrid session	Salon A	Please join us in an open discussion followed by interactive small group exercises to model cognitive processes - including various forms of neurodiversity - to investigate alternative creative thinking approaches and their benefits across the system life cycle. The two primary objectives of this session are:1) To explore various benefits of cognitive diversity and neurodiversity in performing systems engineering, and 2) To broaden our personal awareness of atypical out-of-the-box creative solutions that result through cognitive diversity and neurodiversity.This is an interactive workshop to both share research and also allow participants to brainstorm and develop new models of cognitive diversity and neurodiversity. The goal is to investigate alternative ways to consider the benefits of cognitive diversity across the system life cycle and to better understand the value of those who think differently than we might. An engaging two hours!	MBSE Initiative;NAFEMS-INCOSE Systems Modeling & Simulation;Professional Competencies & Soft Skills;Social Systems;Training;DEI and EWLSE ;	Working Group

Modeling Nature I	Curt McNamara, Dennis Tuckowski, Paul McGoey	Sat, 28 Jan	15:30	17:00	Hybrid session	Pier 1	- Exploration of Natural Systems and opportunities to leverage for use in Model Based Systems Engineering and Digital Engineering processes. Dennis Tuckowski, SAIC- Overview of system dynamics modeling. Presentation is a quick overview of basic terminology and concepts, some important in-use models coupled with a reference and resource section. Paul McGoey	Natural Systems;;	Working Group
							- A literature review on conceptualized and descriptive agent-based models and a presentation of templates of agent-based models using SysML with case studies. Terry Fitzgerald		
	Curt McNamara, Dennis Tuckowski, Paul McGoey	Sun, 29 Jan	15:00	16:30	Hybrid session	Pier 1	- Intro to natural systems design and the natural systems primer. Curt McNamara	Natural Systems;;	Working Group
							- Overview of circular design challenges and opportunities. Kai Constantini		
NAFEMS-INCOSE SMS Community Meeting	Phyllis Marbach, Peter Coleman	Tue, 31 Jan	08:00	10:00	Hybrid session	Pier 10	Following previous years' IW events, the SMS WG invites participants to come together with the wider NAFEMS & INCOSE community for an extended session of our regular SMS community session. The main purpose is to provide an overview of the group's current organisation and plans. This includes several focus teams covering SMS WG products and community events, evolution of related terms & definitions, promotion of relevant standards. We then welcome feedback and suggestions for group activities and expressions of interest to get involved. Note, this meeting is in addition to and complements the SMS WG Planning Meeting during IW23 on Sunday 29 January.	NAFEMS-INCOSE Systems Modeling & Simulation;;	Working Group
NAFEMS-INCOSE SMS WG Planning Meeting	Peter Coleman, Phyllis Marbach	Sun, 29 Jan	10:30	12:00	Hybrid session	Pier 6	Members of the Systems Modeling & Simulation WG participating at IW23 and online, plan to review current scope of group activities and discuss plans for 2023:* Updates to current SMS WG Charter/ToR, webpages and overview comm kit content* Status of existing products and proposals to progress new products in 2023* Proposals to enhance collaborations between NAFEMS & INCOSE* Proposals for SMS WG participation at key events in 2023* Schedule of core WG and related SMS community meetings for 2023Note, this meeting is in addition to and complements the SMS Community Meeting planned during IW23 on Tuesday 31 January.	NAFEMS-INCOSE Systems Modeling & Simulation;;	Working Group
Networking Lunch - WG Market Place		Tue, 31 Jan	12:00	14:30	In person session	Lighthouse Ballroom			Social Event
Opening Plenary		Sat, 28 Jan	08:00	09:30	Hybrid session and Available for Replay	Salon DE			Plenary
Opening: Our View on state of MBSE	Troy Peterson, Mark Sampson	Sat, 28 Jan	13:00	13:20	Hybrid session and Available for Replay	Salon E	Kickoff MBSE Workshop with a review of where we are in transforming systems engineering to a model-based discipline.		MBSE Workshop
OpenMBEE Tutorials	Robert Karban, Fatma Karagoz, Karina Martinez, Chris Delp	Mon, 30 Jan	13:00	17:00	Hybrid session	Pier 11	Purpose: OpenMBEE TutorialsObjective: Inform the community about OpenMBEE projectsStructure: TutorialTiming: 4h	OpenMBEE Community; Working Group	

Organising to do Systems Engineering - what information is out there	Richard Beasley	Tue, 31 Jan	08:00	10:00	Hybrid session	Pier 9	This meeting is to follow up from the strategy session held in July on the subject of Embedding Systems Engineering into an organisation - recognising that there will need to adaptations and tailoring based on both the state / size / systems maturity of the organisation and the nature of the systems the organisation works on.It is likely that a Working Group will be set up to address this, and this session is part of the preparation for that, especially looking at the scope for a working group. The particular focus for this meeting is to look at what information is already available, or in development, across the range of working groups. From the strategy session it was clear that there is a lot of material already around - and the role of the working group will most likely include collating and organizing disparate outputs from working Groups The agenda isSummary of output from the July strategy session (scene setting)Discussion / capture of what different working groups have done, are doing or could do to2.1) Presentation of analysis / synthesis / affinitisation of the material that came from the strategy session to set the scene2.2) Extension / development of those ideasSpecific attention to integrate across INCOSE, discuss and define material / ideas / work from across the Technical work of INCOSE. The strategy sessions identified a number of potential links. Discussion of scope, feasibility, interest and timeline in standing up a formal WG in this area The purpose of this session can find more material or ideas to consider in the development of a guide to embedding Systems Engineering into an organization. Additionally, to create a strand of thinking in a range of working groups regarding what they could provide as input to a potential WG in this field	Organising to do Systems Engineering;	Working Group
PDP Workshop # 1 - Getting to Know the PDP	Kirk Michealson, Don Gelosh	Sat, 28 Jan	13:00	15:00	Hybrid session	Pier 8	This is the first of 3 PDP Workshops. For this one, a sub-title would be "The Professional Development and You, a "Hands-On" Demonstration" for users. The PDP is a service to all members. Purpose: To provide a "hands-on" interactive demonstration of the PDP.Objective: To allow attendees to experiment with the PDP during the demonstration, answering all questions. Success would be answering all questions and getting attendees enthusiastic about using the PDP for their professional development. Structure: The structure is a "hands-on" demonstration with the leaders going over the PDP pages and then walking around the room to answer questions. Timing: 2 hours is requestion for this meeting.	Professional Development Portal (PDP);	Working Group
PDP Workshop # 2 - Future Capability Needs for the PDP	Kirk Michealson, Don Gelosh	Mon, 30 Jan	13:00	15:00	Hybrid session	Pier 2	This is the second of 3 PDP Workshops (first is ID # 9243. third is # 9246). For this one, a sub-title would be "What capabilities would users like to see after the Full Operational Capability (FOC)?" The PDP is a service to all members.Purpose: The PDP is a service to all members / CAB associates. The purpose is to solicit INCOSE member / CAB associate inputs for future capabilities.Objective: To get actionable capability ideas to work with INCOSE IT to create in the PDP.Structure: Starts with a short brief overview, transitions into a brainstorming session, and then ends in an affinitizing session to group ideas. Timing: 2 hours is requested for this meeting.	Professional Development Portal (PDP);	Working Group
PDP Workshop # 3 - Providing Content for the PDP	Kirk Michealson, Don Gelosh	Tue, 31 Jan	08:00	10:00	Hybrid session	Salon B	This is the third of 3 PDP Workshops. For this one a sub-title would be "Getting involved with the PDP by providing content."Purpose: To solicit more learning resources for the PDP.Objective: Success would be working with the working groups, CAB companies, and Academic Council members for follow-on sessions to obtain more content. Structure: Going over the topics of providing content and having an interactive session answering questions and obtaining content. The PDP Leadership will walk around the room answering questions. Timing: 2 hours is requested for this meeting.	Professional Development Portal (PDP);	Working Group
PM-SE Integration WG : Awareness session / Overall status + Specific session on Serious Game	Jean-Claude Roussel, Tina Srivastava, John Lomax	Mon, 30 Jan	15:30	18:00	Hybrid session	Salon B	Purpose : To inform INCOSE members about PM-SE Integration WG Objective : Make IW attendants aware of PM-SE Integration WG activities and encourage new participationsStructure : Presentations of WG activities and initiatives given by the co-chairsTiming : 2:30 h	PM-SE	Working Group

PM-SE Integration WG : Co-Chairs Meeting	Jean-Claude Roussel, Tina Srivastava, John Lomax	Mon, 30 Jan	10:30	12:00	In person session	Pier 6	Purpose : To align PM-SE WG position with FuSE projectObjective : Know the involvement of PM-SE WG in the FuSE projectStructure : WG Co-chair meeting (closed)Timing : 1:30 h	PM-SE	Working Group
PM-SE Integration WG : Specific Working session on Strategic Planning Management	John Lomax	Tue, 31 Jan	08:00	10:00	Hybrid session	Salon G	Purpose : To cover a specific initiative of the PM-SE integration WG : The Strategic Planning ManagementObjective : To have a working session with motivated volunteers to move on with this initiativeStructure : Working session with volunteer members Timing : 2 h	PM-SE	Working Group
Preliminary Debut for Upcoming Working Group: Systems Thinking Applications/ The Systems Approach in Action	Dr. Julia Taylor	Sat, 28 Jan	13:00	15:00	Closed	Pier 11	This session will include structured and unstructured elements. First some questions to provoke thinking about how Systems Thinking was applied for a particular company-wide project that was an actual application of the Systems Approach. Then as a Round Table executives will engage in discussion about areas of concern. It's an opportunity to find out how other executives handle certain aspects as well as contribute to the knowledge base of others.	System of Systems;Systems Science;;	Business Meeting
Product Line Engineering Working Group - Member Working Meeting	Randy Pitz, Drew Stovall, Marco Forlingieri	Tue, 31 Jan	08:00	10:00	Hybrid session	Pier 5	The Product Line Engineering Member Working Meeting will continue the development of Working Group products and activities. We want to raise awareness of Working Group activity so the membership can bring information back to their home organizations. The agenda topics will include: Elevating SE to Systems Family Engineering (SFE), Vision 2035 contributions, Industry influence with SE modernization, Applying MBSE with PLE and ISO 26581 plans.	Product Line Engineering;;	Working Group
Product Line Engineering Working Group - Open Workshop	Randy Pitz, Drew Stovall, Marco Forlingieri	Sun, 29 Jan	15:00	17:00	Hybrid session	Pier 10	This meeting is to promote Product Line Engineering and related Systems Engineering best practices. We help members acquire know-how and provide guidelines to setup and evolve organizations. The agenda will review recent activities and future plans followed by PLE specific discussion in an open format.	Product Line Engineering;	Working Group
Quality Management and Leadership: Learning Workshop	Barclay Brown, Bill Scheible	Mon, 30 Jan	14:00	15:30	Hybrid session	Salon G	Broaden your systems engineering leadership skills by adding quality management!Improve your leadership style, promote teamwork and effectively implement system innovations and migrations. Quality management enables systems engineers to:> Deploy ISO Standards with precision in a positive and engaged work culture.> Deliver "Built-in Quality" and reliable outcomes for Agile developed projects.> Apply systems thinking to create Lean projects with Lean human resources.In this session, we'll provide an introduction to quality management, based on the content in the upcoming Systems Engineering Handbook (v5). We'll also introduce the next available cohort for the Quality Management Institute training curriculum, available on a full-scholarship (no-charge) basis to any member of the iNCOSE SEQM International Working Group (and we welcome new members). The program will be presented by the leadership of the SEQM working group, with Larry Kennedy, founder of the Quality Management Institute, and featuring some of the latest INCOSE graduates of the QMI Curriculum. We'll introduce and illustrate concepts and principles from the course, along with interactive workshop exercises to deepen understanding and practical application.	Systems Engineering Quality Management (SEQM);;	Working Group
Registration		Fri, 27 Jan	08:00	17:00		Registration Desk			Logistic
		Sat, 28 Jan	07:00	17:00		Registration Desk			Logistic
		Sun, 29 Jan	07:00	17:00		Registration Desk			Logistic
		Mon, 30 Jan	07:00	17:00		Registration Desk			Logistic
		Tue, 31 Jan	07:00	15:00		Registration Desk			Logistic
Requirements Working Group Meeting	Tami Katz, Lou Wheatcraft	Sun, 29 Jan	13:00	17:30	Hybrid session	Pier 4	Requirements Working Group session on Guide to Writing Requirements	Requirements;;	Working Group

	Tami Katz, Lou Wheatcraft	Mon, 30 Jan	13:00	17:30	Hybrid session	Pier 4	Requirements Working Group session on Guide to Writing Requirements	Requirements;;	Working Group
		Sun, 29 Jan	10:30	12:00	In person session	Pier 4	RWG and other Working Group collaboration session		Working Group
		Mon, 30 Jan	10:30	11:30	In person session	Pier 4	RWG and other Working Group collaboration session		Working Group
Resilient Systems Working Group SEBoK v2.8 Meeting	Kenneth Cureton	Sun, 29 Jan	10:30	12:00	Hybrid session	Salon H	SEBoK resilience sections update drafts - SEBoK v2.8 1st cycle May 2023* Resilience Engineering (update of existing section)* Resilience Modeling (new section)* LDSE (review of existing section, update if necessary)	Resilient Systems;;	Working Group
Review of INSIGHT Article Submissions	Rick Dove	Sun, 29 Jan	13:00	17:30	Hybrid session	Pier 8	We will review 10 first-draft articles for June 2023 INSIGHT: Agility in the Future of Systems Engineering (FuSE). With 30-minute slots authors present for 15 minutes and participants comment for 15 minutes - text draft of articles are downloadable before presentations.	Agile Systems and Systems Engineering;;	Working Group
RSWG General Discussion / Business Meeting	Kenneth Cureton	Mon, 30 Jan	14:00	16:00	Hybrid session	Salon H	Brainstorming of RSWG activities for 2023Sustainability and ResilienceVision 2035 RoadmapResilience PrimerLDSE PrimerStakeholder Needs/Priorities Alignment	Resilient Systems;;	Working Group
SBSE WG Working Session	Ken Ptack, Angela Robinson	Mon, 30 Jan	13:00	17:00	Hybrid session	Pier 10	We strongly encourage proactive planning of the meeting agenda to maximize effectiveness and impact. The POST method is a simple way to give clarity before attendees join a meeting, and serves as a starting agenda outline.Purpose: What is the purpose of the meeting? Work on products approved for work during the first meeting. Presentation for the Closing.Objective: What are you trying to achieve in the meeting, and what does success look like? A good Quad Chart and PPT presentationStructure: What is the structure of the meeting we are having? In person and ZoomTiming: How much time is allocated to the meeting? 4 hours	Small Business Systems Engineering;;	Working Group
SBSE WG: ISO29110 Work Products and TPP Submissions	Angela Robinson, SBSE Working Group, Ken Ptack	Sat, 28 Jan	13:00	17:00	Hybrid session	Pier 7	Purpose: Presentation of the latest information about the ISO29110 Standard Review INCOSE permission to use the ISO 29110 for current work-product Status of current TPP submissions and outstanding work-product Establish use of ISO29110 among the INCOSE and at-large community Objective: The ISO29110 is a constantly evolving standard, there is a need to understand the current and anticipated future state Understand what the INCOSE permission to use the ISO 29110 is for current work-product How this impacts Profile Guides and Deployment Packages (DP)	Small Business Systems Engineering;;	Working Group

SBSE WG: Small Business and CAB Engagement	Angela Robinson, SBSE Working Group, Ken Ptack	Sun, 29 Jan	11:00	17:00	Hybrid session	Pier 9	This is a session to establish the SBSE WG relationship and engagement with CAB. We would like to better understand how to promote entrepreneurship within INCOSE as well as mentor and grow small businesses already within the community.	Small Business Systems Engineering;;	Working Group
Scientific Foundations for Systems Science Working Session	Javier Calvo-Amodio, Swami Natarajan, James Martin	Mon, 30 Jan	10:30	12:00	Hybrid session	Salon G	Purpose: Identify gaps in scientific knowledge to improve the life cycle activities of SE practice; this will be based on the FuSE Foundations Stream work and past work of the SSWG members. While attendance to the FuSE Foundations Stream sessions is recommended, it is not necessary. Objective: Identify research priority areas and identify a role in which they can contribute to the advancement of systems science as a foundational theory for systems engineering Structure: 1.5 hr working session	Systems Science;;	Working Group
SE AI/Machine Learning Lightning Round	Tom McDermott, Barclay Brown	Sun, 29 Jan	10:30	17:30	Hybrid session and Available for Replay	Salon E	This year's MBSE TED-Like Lightning Round is focused on Artificial Intelligence (AI) and Machine Learning (ML).Schedule:(Barclay Brown, MC)10:30-11:00, Opening: Three Wakeup Calls for AI and SE and AI Systems WG Update, Barclay Brown 11:00 – 11:30, Keynote 1: AI in Defense and Aerospace, Tod Newman, former AI Lead, Raytheon Technologies11:30 – 11:50, Roadmap for AI and SE, Tom McDermott11:50 – 12:00, Discussion: Priorities for AI and SE in 202312:00-13:00, Lunch(Ali Raz, MC)13:00-13:20, Time slot 1: Digital Assistance for Systems requirements Discovery and Analysis Using Machine Learning Natural Language Processing Algorithms (Nipa Phojanamongkolkij)13:20-13:40, Time slot 2 - A systems approach to sport business (Alessandro Migliaccio)13:40-14:10, Time slot 3 – Use NLP to Create Behavior Models from Natural Language Text (Steve Dam, SPEC Innovations)14:00-14:20, Time slot 4 - Agent-Based Modeling from a Systems Engineering Approach (Rebekah Yang)14:20-14:40, Time slot 5 - AI/ML Risk Management Approach for Federal Agencies (PACE Concept) (John Crissman)14:40-15:00, Time slot 6 – Confidence.ai (Chale Gongora Hugo Guillermo)15:00-15:30, Break15:30-15:50, Time slot 7: MBSE to support AI Digital Assistant solutions (Ricardo Reis)15:50-16:10, Time slot 8 - Staying Fresh and Relevant: Book Review of Mathematical Intelligence, by Junaid Mubeen, and The Myth of Framework by Karl Popper (Josh Sparber)16:10-16:30, Time slot 9 – Test and Evaluation of AI Systems with Explainable AI and Counterfactuals (Ali Raz)16:30-17:00, Time slot 10 – Quick Overview of AI Primer, with Discussion and Feedback (Ali Raz, Ramakrishnan Raman) 17:00-17:30, Speaker Interaction/Q&A session and wrap-up		MBSE Workshop
SE Tools Database User Forum	John Nallon, Stephane Lacrampe, Rene King	Sat, 28 Jan	13:00	15:00	Hybrid session	Salon G	A two hour Open User Forum to meet the SETDB SE Team, Working Group Leaders and other users. We would like to hear what you have liked, what you do not, what can be improved, additional tool categories that are needed, new functions and so forth. Demonstrations will be conducted and the format will be an open question and answer format with discussions. We want to hear from users and users want to meet users.	SE Tools Database;;	Working Group
SE Tools Lab Update	Barclay Brown	Sat, 28 Jan	16:10	16:30	Hybrid session and Available for Replay	Salon E	INCOSE is launching a MBSE tool cloud environment. Here's everything you need to know to get involved.		MBSE Workshop
SEP luncheon		Mon, 30 Jan	12:00	13:00	ASEP, CSEP and ESEPs only	Salon D			Social Event

SETDB Internal Process Review	John Nallon, Stephane Lacrampe, Rene King	Sun, 29 Jan	10:30	12:00	Hybrid session	Pier 1	SETDB Development Team internal review of process and procedures, release scheduling, where we are in the roadmap per the TPP, what needs to be done and the priority of tasks.	SE Tools Database;;	Business Meeting
SETDB Operational Procedure Development and Finalization	John Nallon, Stephane Lacrampe	Mon, 30 Jan	10:30	17:30	In person session	Hideaway	We will review the status of the operational procedure's development to date, finalize procedures already in development and initiate development of remaining procedures.	SE Tools Database;;	Working Group
SETDB Roadmap Planning	John Nallon, Rene King	Sun, 29 Jan	13:00	17:30	Hybrid session	Hideaway	Future roadmap planning, strategy development for questionnaire development, product development and maintenance and evolution preparedness.	SE Tools Database;;	Working Group
SETDB Working Group Charter Review and Update	John Nallon, Stephane Lacrampe, Rene King	Sat, 28 Jan	15:30	17:30	In person session	Pier 8	Working session to update the working group charter to incorporate the next 2 years of activities. By the end of this session, the Techops Charter site will be updated for review and approval.	SE Tools Database;;	Working Group
Smart Cities Initiative - Annual Planning	Jennifer Russell, Marcel van de Ven	Sat, 28 Jan	13:00	14:30	Hybrid session	Pier 6	Purpose: Plan annual schedule, work product priority and key leaders for eachObjective: make a plan for meetings and effort for the yearStructure: Working session: schedule, budget, effort priorityTiming: 1.5 hours	Smart Cities Initiative;;	Working Group
Smart Cities Initiative - Implementing the human-centered framework and mapping to UN Sustainability goals	Jennifer Russell, Marcel van de Ven	Mon, 30 Jan	13:00	15:00	Hybrid session	Pier 9	Purpose: This session will review the options for how municipalities and systems engineers will apply the INCOSE definition, metrics, and INCOSE-TUS Framework for a smart city. We will also spend time reviewing our human fundamental needs and metrics to tie explicitly to the UN Sustainability Goals.Objective: We will review the existing framework and resources, ask what else could be helpful for SEs to use these concepts; and map our fundamental human needs to the UN sustainability goals.Structure: First half - group discussion on what SEs need to help their communities. Second half - group discussion to tie significant metrics togetherTiming: 1.5 hours	Enterprise Systems;Infrastructure; Smart Cities Initiative;Social Systems;Transportation ;;	Working Group
Smart Cities Initiative - Modeling Homelessness Use Case	Jennifer Russell, Marcel van de Ven	Sun, 29 Jan	13:00	15:00	Hybrid session	Salon F	Our initiative has selected the issue of homelessness to be our first developed use case for a smart city. We will review the modeling foundation we're developing and create additional ConOps to serve as model springboards for INCOSE modeling efforts. Purpose: Bring modeling specialists, Smart cities members, and special WG members together to consider the challenge of modeling homelessnessObjective: We will review our current model concepts, develop a standard ConOps outline, and identify specific scenarios as a basis for future modeling effortsStructure: Group activities: 30 mins - overview and current concepts, 30 mins - refine and update ConOps outlines; Breakout into subgroups 60 mins - flesh in ConOps with scenarios to model Timing: 2 hours	Complex Systems;Infrastructure; MBSE Initiative;Smart Cities Initiative;Social Systems;Transportation ;;	Working Group
Social Systems Primer Review	Charlotte Dunford, Erika Palmer	Sat, 28 Jan	13:00	14:00	Hybrid session	Pier 10	The detailed primer outline and primer status will be shared. If you are interested in sharing your knowledge in social systems or learning more about them please come along!	Social Systems;	Working Group
Social Systems WG Charter Review and Update	Charlotte Dunford	Sun, 29 Jan	13:00	15:00	Hybrid session	Pier 10	Working session to review and update the charter. Feedback has been solicited via yammer and email which will be inform the update as well as feedback during the session itself. We particularly want to decide what we want to achieve in the next 2 years.	Social Systems;	Working Group
Space Systems Working Group	Jim Adams, David Kaslow, Alex Levi	Sat, 28 Jan	14:00	15:00	Hybrid session	Pier 4	Discussion of potential working group activities and products for the next year.	Space Systems;	Working Group
Standards Development Department Policy and Practices	Richard Martin	Mon, 30 Jan	16:30	17:30	Hybrid session	Pier 8	Purpose: Review of INCOSE needs and policies for SDO engagement.Objective: Liaison participants identified for each active standards development project.Structure: Presentation of current commitments and possible opportunities discussion.Timing: One hour session	Standards Development Department;	Working Group
	Richard Martin	Tue, 31 Jan	08:00	09:00	Hybrid session	Pier 8	Purpose: Review of INCOSE needs and policies for SDO engagement.Objective: Liaison participants identified for each active standards development project.Structure: Presentation of current commitments and possible opportunities discussion.Timing: One hour session	Standards Development Department;	Working Group

STPA System Safety Workshop: Integrating System Safety with MBSE	Dr. Nancy Leveson	Sun, 29 Jan	10:30	17:30	Hybrid session and Available for Replay	Salon D	Morning Session Introductions... Context/level setting: getting everyone on the same Systems Safety page Systems Safety Orientation (45 presentation, 45 Q&A) (Prof. Leveson) Includes: System Safety introduction Difference between RAMS & Safety Example: STPA Afternoon Session Opportunities / Next Steps Panel discussion on system safety including misconceptions, case studies, focusing on principals vs details:- Panelist: 5-7 20 min. Case Studies with 10 min Q&A Emily Howard (Boeing) STPA in large commercial aircraft industry Kyle Post (Ford) RAAML, System Safety at Ford Matthew Hause (SystemX) Cyber Security perspective Joseph Dailey (Siemens) Integrating Systems Safety with the product development lifecycle Matt Shevland (Northrop Grumman) [Remote] Integrating Systems Safety and SysML experience Mark Vernacchia (GM) [Remote] System safety implementation at GM- Joint Panel Q&A with workshop participants	MBSE Initiative;;	MBSE Workshop
Strategy Session	Tom McDermott, David Long	Fri, 27 Jan	08:00	17:00		Salon F			Business Meeting
	Tom McDermott, David Long	Fri, 27 Jan	08:00	17:00		Salon G			Business Meeting
SysML v2 Overview and Demo	Sanford Friedenthal, Ed- Seidewitz	Mon, 30 Jan	10:30	15:00	Hybrid session	Salon B	Purpose: Present and demonstrate highlights of current capabilities of SysML v2 which is planned for final submission to the OMG on February 20, 2023. Objective: Provide broad exposure of SysML v2 to the INCOSE community. Structure: - SysML v2 language overview- SysML v2 language demonstration- Q&A- SysML v2 API & Services overview- SysML v2 API & Services demonstration- Q&A Timing: How much time is allocated to the meeting? 3.5 hours	MBSE Initiative;;	Working Group
SysML v2 Update	Sandy Friedenthal	Sat, 28 Jan	13:20	13:50	Hybrid session and Available for Replay	Salon E	Status report/update on SysML v2 standard		MBSE Workshop
System Safety (STPA) Keynote	Dr. Nancy Leveson	Sat, 28 Jan	11:00	12:00	Hybrid session and Available for Replay	Salon DE	Nancy Leveson is a specialist in system and software safety and Professor of Aeronautics and Astronautics at MIT. She developed the STPA (System Theoretic Process Analysis) and STAMP (System Theoretic Accident Model and Process) methodologies for accident analysis with interest in integrating System Safety at the earliest stages of system development.		Plenary
System Safety Working Group	Meaghan O'Neil, Duncan Kemp	Sun, 29 Jan	10:30	12:30	Hybrid session	Pier 2	This meeting will be optimised for remote attendees. In person attendees are welcome to attend but may prefer to join on Saturday if able. Purpose: This meeting is intended to agree the programme of work for the next year Objective: Agreement on a draft plan for the upcoming year and confirmation of interest among working group members Structure: This meeting with combine presentations with active working sessions Timing: This meeting with include two 60 segments	System Safety;;	Working Group
		Sat, 28 Jan	13:00	16:00	In person session	Pier 2	Purpose: The meeting is intended to agree the programme of work the next year Objective: Agreement on a draft plan for the upcoming year and confirmation of interest among working group members Structure: This meeting will combine presentations with active working sessions Timing: This meeting will include two 60 minute segments with a break in between and a final open Q&A at the end		Working Group
Systems and Software Interfaces Working Group (SaSIWG) "Open House"	Jeannine Sivi, Dorothy McKinney	Sun, 29 Jan	13:00	14:00	Hybrid session	Salon H	In this information session, we will describe two new SaSIWG work products: an ebook to showcase the relevance of systems engineering for executives, and Social Network Analysis to clarify and optimize relationships between systems, software, data, product and other roles. We will also share our overall work product roadmap, focused on interfaces between systems and software engineering (and related disciplines), to improve time to value and resilience of software- and data-intensive organizations and their products, systems and services.	SaSIWG	Working Group

systems engineering and lawmaking working group	david schrunk, greg bulla	Sat, 28 Jan	15:00	17:00	Hybrid session	Pier 11	Purpose: What is the purpose of the meeting? Introduce the vision, research projects, and goals of our working group to attendees and to related working groups such as quality management, risk management, social systems, and requirements WG's. Objective: What are you trying to achieve in the meeting, and what does success look like? Introduce, to the SE community, the idea and feasibility of applying systems engineering to the creation and validation of laws (e.g., legislative statutes). Success measured in terms of number of contacts from other WG's who can potentially contribute to our research agendas. Structure: What is the structure of the meeting we are having? Presentation of the challenges, structure, and goals of SELAW followed by Q&A, general discussion. Timing: How much time is allocated to the meeting? Two hours	SE And Lawmaking (SEAL);;	Working Group
	david schrunk, greg bulla	Sun, 29 Jan	15:00	17:00	Hybrid session	Salon A	Purpose: What is the purpose of the meeting? Introduce the vision, research projects, and goals of our working group to attendees and to related working groups such as quality management, risk management, social systems, and requirements WG's. Objective: What are you trying to achieve in the meeting, and what does success look like? Demonstrate the feasibility and value of applying systems engineering to the field of lawmaking (of laws / statutes of government). Success = contacts with other WG's and individuals who are interested in cooperating with and contributing to our research and development agendas. Structure: What is the structure of the meeting we are having? Presentation of the challenges, structure, and goals of SELAW followed by Q&A, general discussion. Timing: How much time is allocated to the meeting? Two hours	SE And Lawmaking (SEAL);;	Working Group
Systems Engineering Artificial Intelligence Primer Update and Review Meeting	Ali Raz, Barclay Brown	Mon, 30 Jan	16:00	17:00	Closed	Pier 2	AI Systems WG is developing a primer on artificial intelligence for the systems engineering community. This meeting will review the incremental progress update on the development of the primer and review the current draft.	Artificial Intelligence Systems;;	Working Group
Systems of Systems Working Group Business Meeting	Alan Harding, Judith Dahmann	Sun, 29 Jan	13:00	15:00	Hybrid session	Salon G	Review ongoing working group activities and plan for upcoming events	Systems of Systems	Working Group
Systems Science Working Group Introduction	Javier Calvo-Amodio, Swami Natarajan, James Martin	Sun, 29 Jan	15:30	18:00	Hybrid session	Salon G	Purpose: Review recent developments in Systems Science by members of the group that are relevant to FuSE and the Foundations Stream. These include the work from the Bridge Team (architecture of SE and Guiding Propositions), initial work on Applied Category Theory as a mathematical basis for SE, and a review on theoretical foundations and conceptual alignment. This will set the stage to our session on Monday where we will work on identifying research priorities to advance the scientific foundations of Systems Engineering. Objective: After completing the meeting attendees will identify a role in which they can contribute to the advancement of systems science as a foundational theory for systems engineering Structure: 1 hr introduction + 30 min break + 1 hr discussion Timing: 2.5 hrs total	Systems Science;;	Working Group
Systems Security Engineering WG General Meeting	Rick Dove	Mon, 30 Jan	13:00	15:30	Hybrid session	Pier 1	Intro to the working group, a review of current project status, proposed new projects, mini-workshop maybe, and general discussion.	Systems Security Engineering;;	Working Group

Systems Thinking RoundTable (STRT)	Sue Gabriele, Jawahar (JB) Bhalla	Sat, 28 Jan	12:00	13:00	Hybrid session	Salon A	<p>EVERYONE is invited to our daily Systems Thinking RoundTable, hosted by the Systems Science Working Group (SSWG). We will meet in-person right before the plenaries from 7 - 8 pacific time every morning of the INCOSE Workshop. We will also meet virtually at noon pacific time, during the lunch hour, with a focus on virtual attendees. You are welcome to pick up coffee and a danish, or lunch, and bring it with you. (The hotel Starbucks opens at 5:30.) OUR SUGGESTED TOPICS will include: 1. "What is SYSTEMS THINKING? What are the links between SE and SS (Systems Science)?2. "Linking our conference aims (e.g., making a difference and best practices) to your field of expertise/study, what do you see as our challenges? What are your hopes?3. "What situations and projects did you leave behind to come here, and what could happen here that would be valuable to you in your work and life back home?" OUR FORMAT/STRUCTURE is a reflective practice during which each participant is given equal time to comment on a selected topic, or a topic of their own choosing. We begin by listening to short readings and the suggested topics for five minutes. We then spend the remaining time listening to, and offering an individual comment. The time is divided equally among all present (e.g., 27 people = 2 minutes each). Each session, the session is facilitated by a different volunteering facilitator chosen from those in attendance. A different topic will be suggested by the volunteering facilitator. OUR ROUNDTABLE PURPOSES are</p> <p>to open a space for daily reflection on our ideals: what we want to</p>	Agile Systems and Systems Engineering;Complex Systems;Decision Analysis;Human Systems Integration;Natural Systems;Social Systems;Systems Science;All Was;	Working Group
	Sue Gabriele, Jawahar (JB) Bhalla	Sun, 29 Jan	12:00	13:00	Hybrid session	Salon A	<p>EVERYONE is invited to our daily Systems Thinking RoundTable, hosted by the Systems Science Working Group (SSWG). We will meet in-person right before the plenaries from 7 - 8 pacific time every morning of the INCOSE Workshop. We will also meet virtually at noon pacific time, during the lunch hour, with a focus on virtual attendees. You are welcome to pick up coffee and a danish, or lunch, and bring it with you. (The hotel Starbucks opens at 5:30.) OUR SUGGESTED TOPICS will include: 1. "What is SYSTEMS THINKING? What are the links between SE and SS (Systems Science)?2. "Linking our conference aims (e.g., making a difference and best practices) to your field of expertise/study, what do you see as our challenges? What are your hopes?3. "What situations and projects did you leave behind to come here, and what could happen here that would be valuable to you in your work and life back home?" OUR FORMAT/STRUCTURE is a reflective practice during which each participant is given equal time to comment on a selected topic, or a topic of their own choosing. We begin by listening to short readings and the suggested topics for five minutes. We then spend the remaining time listening to, and offering an individual comment. The time is divided equally among all present (e.g., 27 people = 2 minutes each). Each session, the session is facilitated by a different volunteering facilitator chosen from those in attendance. A different topic will be suggested by the volunteering facilitator. OUR ROUNDTABLE PURPOSES are</p> <p>to open a space for daily reflection on our ideals: what we want to</p>	Agile Systems and Systems Engineering;Complex Systems;Decision Analysis;Human Systems Integration;Natural Systems;Social Systems;Systems Science;All Was;	Working Group

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Technical Operations Assistant Directors meeting	Olivier Dessoude, Erika Palmer	Sat, 28 Jan	13:00	14:00	Closed	Salon F		Business Meeting
Technical Operations Working Group Leadership luncheon	Olivier Dessoude	Sat, 28 Jan	12:00	13:00	Closed	Salon F		Business Meeting

Telling Systems Stories Workshop: Making Technical Solutions Compelling	Honor Lind, Barclay Brown	Mon, 30 Jan	10:30	12:00	Hybrid session	Salon F	Systems engineers must be able to communicate about existing and potential systems to be effective. Effective communication includes personal skills, like public speaking and presenting, but also the ability to deliver compelling visions of new and existing systems by telling stories.	Professional Competencies & Soft Skills;Social Systems;Systems Engineering Quality Management (SEQM);;	Working Group
							This workshop offers an approach to storytelling for systems engineers. In addition to the purely descriptive purpose of storytelling, we plan to include the persuasive aspect as well. Stories are often intended to persuade and to sell ideas, programs, and approaches to a company's senior management or to a company's customers. One of us (Honor) has extensive background in storytelling in marketing, advertising, and sales contexts and the other (Barclay) is an experienced public speaker and written and taught the use of stories as a fundamental method in systems engineering.		
							Presenter Bios		
							Honor A. Lind is Director of Marketing and Communications for INCOSE. She has over 20 years' experience in marketing, and in recent years has focused on engineering organizations. She has a master's degree in public administration with a focus on nonprofit management and marketing, and degrees in art and communications. In her art, she focuses on telling stories through art, symbol, and mythology.		
							Barclay R. Brown is Associate Director for AI Research at Collins Aerospace, a division of INCOSE Tech Ops Technical Process Plan process Conops review for users and IPC.		Working Group
TPP Walk-through	Tony Williams	Sun, 29 Jan	13:00	14:00	Hybrid session	Pier 2			
	Tony Williams	Sun, 29 Jan	16:00	17:00	Closed	Pier 2	INCOSE Tech Ops Technical Process Plan process Conops review for users and IPC.		Working Group
Working Group Integration - Sharing common interests	William Scheible	Sun, 29 Jan	14:00	15:00	Hybrid session	Salon H	Purpose: This meeting is the initial TechOps effort to facilitate and opportunity for all WG's to state their work and then meet/solicit other WG's leaders in pursuing possible joint or shared efforts. It is intended to be very informal and to be an information meeting and idea swap for the WG leaders. Objective: A time and place for all WG leaders seeking collaboration or development help to meet with other WG leaders who may have similar needs and/or capabilities. If a WG is looking for a collaboration partner, or believes their work might benefit from another WG involvement, this is the meeting to attend. WG leaders are encouraged to attend even if you don't have current needs for other WG help. Structure: A TechOps facilitated informal/information swap meeting with the speakers being WG's leadersTime: 60 minutes. Scheduling would hopefully allow for most international WG leaders to attend.	Working Group Sharing ;	Business Meeting
Working Group Round Robin... (Select Working Group Overviews) DEIX, Satellite Ref Model,...		Sat, 28 Jan	15:30	16:10	Hybrid session and Available for Replay	Salon E	1530-1535 Javier Calvo-Amodio Systems Science WG Systems Theoretical Foundations 1535-1540 Bill Schindel MBSE Patterns WG Patterns WG Activities 1540-1545 Frank Salvatore Decision Analysis WG Decision Analysis Data Model 1545-1550 Adriana D'Souza & Aleksander Przybylo Change Management WG CM WG Activities 1550-1555 David Hetherington Automotive WG MBSE Capstone & Safety Cybersecurity 1555-1600 Jennifer Russell Smart Cities WG Smart Cities Initiative 1600-1605 Tom McDermott DE Measurement Framework 1605-1610 John Nallon Tool Integration Model Life Cycle Management Systems Engineering Tools DB		MBSE Workshop

Wrap up FuSE	Bill Miller, Martina Feichtner, Christopher Hoffman	Tue, 31 Jan	10:30	11:00	Hybrid session and Available for Replay	Salon D	Review the objectives for FuSE to realize the SE Vision 2035. Status the engagement of INCOSE working groups and initiatives as well as systems community partners. Share key takeaways from the four FuSE streams workshops: Vision & Roadmaps, Foundations, Methodologies, and Application Extensions. Summarize the communications and outreach plan including cadence of future events in 2023.		Plenary
		Tue, 31 Jan	08:00	09:30	In person session	Salon D			FuSE
Wrap up MBSE	Troy Peterson, Mark Sampson	Tue, 31 Jan	11:00	11:30	Hybrid session and Available for Replay	Salon D	Outbrief on MBSE workshop events		Plenary
WSRC and other Chapter-led and Regional Conference Committees!	Susan Ronning, Paul White	Sun, 29 Jan	13:00	14:30	Hybrid session	Pier 11	Purpose: Regional Conference Planning - WSRC 2023 and beyondStructure: Hybrid; on site and remote participantsTiming: 1.5 hoursObjective: INCOSE's Chapter and Regional conferences have the most impact for engaging new members at the local level. How can we lessen the administrative burden and make hosting regional and chapter led conferences more inviting to our members? Let's talk through lessons learned for past chapter-led and regional conferences and come up with a directed, concerted approach to leading conferences and events! - What have you found that works? What doesn't? - What resources or tools can we leverage across chapters and regions to achieve higher functionality & lower cost?-- i.e. registration software, email software, marketing tools, conference planning personnel.- Has your group already created schedules, activities, programming templates for your past conferences that we can templatize?- Can we do to simplify all INCOSE chapter-led and regional conferences going forward? -- 2023 Western States Regional Conference (WSRC) committee team intends to build out a Smartsheet Workspace that can be reused to plan future conferences; we would like your help and input to develop a structure that is scalable to work for single and multi-day events to lessen the load on our volunteers.	Business Meeting;;	Business Meeting
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