Meeting Name	Date	Time Start	Time End	Meeting Listing	Room	Meeting Description	Contact Name	Related WG	Туре
Saturday Registration	Saturday	07:00	17:00	Liothing	Registration				Logistic
Systems Thinking RoundTable (STRT)	Saturday	07:00	08:00	In person session	Desk Salon A	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	Sue Gabriele, Jawahar (JB) Bhalla	Agile Systems and Systems Engineering, Complex Systems; Decision Analysis; Human Systems Integration; Natural Systems; Systems Science; All Was;	Working Group
Opening Plenary	Saturday	08:00	09:30	Hybrid session and Available for Replay	Salon DE				Plenary
Break	Saturday	09:30	10:00		Ballroom Foyer	IW2023 facilitates a moment and a place where attendees shall build networks, perform activities, and produce outcomes beyond their typical network and focus area. Question: What are you most excited about this IW and why?			F&B
FuSE Keynote	Saturday	10:00	11:00	Hybrid session and Available for Replay	Salon DE	The Co-theme of IW 2023 is the Future of Systems Engineering Initiative to realize the SE Vision 2035. The four streams will be introduced: Vision & Roadmaps, Foundations, Methodologies, and Application Extensions. Dr. Oil de Weck (MIT) will keynote on the foundations of systems engineering both from the scientific literature and industrial practice. The FuSE sessions at the IW will be outlined.	Dr. Oli de Weck, Bill Miller, Martina Feichtner		Plenary
System Safety (STPA) Keynote	Saturday	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.	Dr. Nancy Leveson		Plenary
Lunch	Saturday	12:00	13:00		Ballroom	IW2023 facilitates a moment and a place where attendees shall build networks, perform activities, and produce outcomes beyond their typical network and focus area. Question: What is your favorite systems engineering process to explain to others and why?			F&B
Systems Thinking RoundTable (STRT)	Saturday	12:00	13:00	Hybrid session	Salon A	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 5£ and 55 (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 sistuations and projects did you leave behind to come here, and what	Sue Gabriele, Jawahar (JB) Bhalla	Agile Systems and Systems Engineering;Complex Systems;Decision Analysis;Human Systems Integration;Natural Systems;Systems Science;All Was;	Working Group
Technical Operations Working Group Leadership Juncheon	Saturday	12:00	13:00	Closed	Salon F	and disease been thet would be refusible to very larger and and life	Olivier Dessoude		Business Meeting
Architecture Working Group Meetings	Saturday	13:00	17:30	Hybrid session	Salon H	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	Anand Kumar, Jean-Luc Garnier, Rolf Siegers	Architecture;	Working Group
Defense Systems	Saturday	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.W2023 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	Karl C. Geist, Roger Rosewall, Kevin Devaney, Mary Bridson, Carl Landrum, Shelley Higgins	Defense Systems WG;	Working Group
Digital Engineering Information Exchange Working Group Leadership	Saturday	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	Terri Chan, Ken Zhang	Digital Engineering Information Exchange;;	Business Meeting
INCOSE Foundation Board Meeting	Saturday	13:00	15:00	Hybrid session	Hideaway	INCOSE Foundation Q1 Board Meeting	Holly Witte	Business Meeting;INCOSE Foundation;	Business Meeting
Intro to bio-inspired design	Saturday	13:00	15:00	Hybrid session	Pier 1	A brief exploration of the current state of biomimicry tools and processes used to aid engineers in solving design challenges. Individual participants (or small groups) can each choose their own problem, real or fictitious, and work through the first three phases of the biomimicry process: define, biologize, and discover. Tools such as AskNature and PeTaL will be used. 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.	Curt McNamara, Dennis Tuckowski, Brandon Ruffridge	Natural Systems;;	Working Group
Opening: Our View on state of MBSE	Saturday	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.	Troy Peterson, Mark Sampson		MBSE Workshop
PDP Workshop # 1 - Getting to Know the PDP		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.	Kirk Michealson, Don Gelosh	Professional Development Portal (PDP);	Working Group
Preliminary Debut for Upcoming Working Group: Systems Thinking Applications/ The Systems Approach in Action	Saturday	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.	Dr. Julia Taylor	System of Systems;Systems Science;;	Business Meeting

SBSE WG: ISO29110 Work Products and TPP Submissions	Saturday	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	Angela Robinson, SBSE Working Group, Ken Ptack	Small Business Systems Engineering;;	Working Group
						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			
SE Tools Database User Forum	Saturday	13:00	15:00	Hybrid session	Salon G	How this impacts Profile Guides and Deployment Deviance, (IP) A two hour Open User Forum to meet the SETD8 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 these.	John Nallon, Stephane Lacrampe, Rene King	SE Tools Database;;	Working Group
Smart Cities Initiative - Annual Planning	Saturday	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	Jennifer Russell, Marcel van de Ven	Smart Cities Initiative;;	Working Group
Social Systems Primer Review	Saturday	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
System Safety Working Group	Saturday	13:00	16:00	In person session	Pier 2	Purpose: The meeting is intended to agree the programme of work the next yearObjective: Agreement on a draft plan for the upcoming year and confirmation of interest amoung working group membersStructure: This meeting will combine presentations with active working sessionsTiming: This meeting will include two 60 minute segments with a break in between and a final open Q&A at the end	Meaghan ONeil, Duncan Kemp	System Safety;	Working Group
Operations Assistant Directors	Saturday	13:00	14:00	Closed	Salon F	octive and a man open each of the end	Olivier Dessoude, Erika Palmer		Business Meeting
meeting SysML v2 Update	Saturday	13:20	13:50	Hybrid session and Available for Replay	Salon E	Status report/update on SysML v2 standard	Sandy Friedenthal		MBSE Workshop
Handbook Editor Meeting	Saturday	13:30	18:00	Closed	Pier 9	Coordination with the INCOSE SE Handbook editors to finalize and publish the Fifth Edition of the handbook.	David Walden	SE Handbook;	Working Group
-	Saturday	13:50	15:00	Hybrid session and Available for Replay	Salon E	ISO 24641 Methods (Bob)ISO 42010 Architecture (James Martin)OMG UAF 1.2 (Matthew Hause)ISO 63319 Unified Reference Model for smart manufacturing (Richard Martin)	Bob , James Martin, Matthew Hause, Richard Martin		MBSE Workshop
FuSE Working Sessions: Systems Engineering Application Extensions Stream	Saturday	14:00	17:00	In person session	Salon C	The SE Application Extensions stream integrates social sciences, soft systems, as well as initiatives such as Smart Cities to address grand challenges to meet human and societal needs as stated in the United Nations Sustainable Development Goals. The IW 2023 goal is to frame the value model to justify systems engineering's role at the policy table for these grand challenges.	Bill Miller, Martina Feichtner, Tom Strandberg		FuSE
FuSE Working Sessions: Systems Engineering Foundations Stream	Saturday	14:00	17:00	In person session	Salon A	In order to yield predictable results Systems Engineering methods and tools need to be built on foundational principles that are provably true, and based on laws and axioms that can be tested for falsifiability similar to those in other well-estabilished disciplines of science and engineering like Chemical Engineering, Electrical Engineering or Biological Engineering. These streams will formulate a set of candidates underlying Laws of Systemics, the science at the foundation of Systems Engineering. Since Systems Engineering is primarily a cognitive science where teams of humans (using their brains) and computers (using algorithms) create and process informational artifacts such as requirements, functional decompositions, structural representations, models and simulations, and eventually digital twins, we hypothesize that the foundations of Systems Engineering are closely related to information Theory, Complexity Science and Social Science. In this workstream we will first focus on finding agreement on the first law, tentatively formulated as "Conservation of System Complexity", which parallels the Conservation of Energy in Thermodynamics (1st Law) and the Conservation of Mass in continuum mechanics.Participants in this workstream will come from academia, industry and government agencies.	Martina Feichtner, Dr. Oli de Weck		FuSE
FuSE Working Sessions: Systems Engineering Methodologies Stream	Saturday	14:00	17:00	In person session	Salon D	The SE Methodology stream guides the advancement of practices, methods, and tools for the effective engineering of systems to be fit for purpose in the presence of varying scale, interrelatedness, complexity, non-determinism, and emerging technology innovations such as AI and agility. The IW 2023 goal is to assess the adequacy of current INCOSE technical products and ongoing FuSE projects in this stream and identify gaps.	Bill Miller, Martina Feichtner, Christopher Hoffman		FuSE
FuSE Working Sessions: Systems Engineering Vision and Roadmaps Stream	Saturday	14:00	17:00	In person session	Lighthouse Ballroom	The Systems Engineering Vision and Roadmaps stream continuously refines, evolves, and complements the SE Vision 2035. Furthermore, we create an integrated set of roadmaps across the four interrelated FuSE streams. The concurrently executed streams will guide and influence each other. The IW 2023 goal is to frame the structural relationships and value models for the roadmaps' creation.	Bill Miller, Martina Feichtner, Paul Schreinemakers		FuSE
INCOSE/ISSS Roundtable: Theories about modeling social domains for science and practice	Saturday	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	Randy Anway, Gary Smith	Social Systems;	Working Group
Space Systems Working Group	Saturday	14:00	15:00	Hybrid session	Pier 4	Discussion of potential working group activities and products for the next year.	Jim Adams, David Kaslow, Alex Levi	Space Systems;	Working Group
Academic Council	Saturday	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:  Deficated researchations and discussions Timbure 3 hours with a break in between	Alejandro Salado	;	Business Meeting
BKCASE Governing Board	Saturday	15:00	16:30	Hybrid session	Pier 6	Dedicated presentations and discussions.Timing: 3 hours with a break in between. 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.	Art Pyster	Business Meeting;;	Business Meeting
Break	Saturday	15:00	15:30		Ballroom Foyer	IW2023 facilitates a moment and a place where attendees shall build networks, perform activities, and produce outcomes beyond their typical network and focus area. Question: What are you most excited about this IW and why?			F&B
IS 2023 TPC meeting	Saturday	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	Robert Wirthlin, Anabel Fraga	Business Meeting;;	Business Meeting

systems engineering and lawmaking working group	Saturday	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 SELMy followed by QSA, general discussion. Timing: How much time is allocated to the meeting? Two hours	david schrunk, greg bulla	SE And Lawmaking (SEAL);;	Working Group
Complex Systems Working Group Kickoff	Saturday	15:30	17:30	Hybrid session	Pier 4	Kickoff and Overview of CSWG activities, meetings, and joint meetings at the IW2023.	Michael Watson	Complex Systems	Working Group
	Saturday	15:30	17:00	Hybrid session	Hideaway	IS 2023IS 2024Events Portfolio	Donna Long	Business Meeting;;	Business Meeting
•	Saturday	15:30	17:30	Hybrid session	Pier 5	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—multistic corporations and institutions implications for human relationships in large SS—multistic corporations and institutions.	Sue Gabriele, Charlotte Dunford	Social Systems Working Group;	Working Group
Modeling Nature I	Saturday	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	Curt McNamara, Dennis Tuckowski, Paul McGoey	Natural Systems;;	Working Group
						<ul> <li>- 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</li> </ul>			
SETDB Working Group Charter Review and Update	Saturday	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.	John Nallon, Stephane Lacrampe, Rene King	SE Tools Database;;	Working Group
Working Group Round Robin (Select Working Group Overviews) DEIX, Satelite Ref Model,	Saturday	15:30	16:10	Hybrid session and Available for Replay	Salon E				MBSE Workshop
						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			
Digital Engineering Information Exchange Working Group Overview and 2023 Plan	Saturday	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	Terri Chan, Sean McGervey	Digital Engineering Information Exchange;;	Working Group
SE Tools Lab Update	Saturday	16:10	16:30	Hybrid session and Available	Salon E	INCOSE is launching a MBSE tool cloud environment. Here's everything you need to know to get involved.	Barclay Brown		MBSE Workshop
Day 1 Wrapup Q&A	Saturday	16:30	17:00	for Replay Hybrid session and Available	Salon E	Summary of the day's events overview of tomorrow's happenings	Troy Peterson, Mark Sampson		MBSE Workshop
FuSE Core Team	Saturday	17:00	19:00	for Replay Closed	Pier 6	The Co-theme of IW 2023 is the Future of Systems Engineering Initiative to realize the SE Vision 2035. This closed session is for FuSE stream leaders to work: Vision & Roadmaps,	Bill Miller, Martina Feichtner		Business Meeting
INCOSE Foundation Soirée sponsored by the Corporate	Saturday	19:00	21:00	In person session	Lighthouse Ballroom	Foundations, Methodologies, and Application Extensions.			Social Event
Advisory Board Sunday									
	Sunday	07:00	17:00		Registration Desk				Logistic
Systems Thinking RoundTable (STRT)	Sunday	07:30	08:00	In person session	Pier 1	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 bour, 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 to open a space for daily reflection on our ideals, what we want to learn and create: to increase time for each of us to talk from about.	Sue Gabriele, Jawahar (JB) Bhalla  Dorothy McKinney,	Agile Systems and Systems Engineering;Complex Systems;Decision Analysis;Human Systems;Decision Systems;Occial Systems;Social Systems;Systems Science;All Was;	Working Group
	,			session		Free Street Free Front Port Port Port Port Port Port Port Por	Juan Amenabar	Team;	Group

Certification exam	Sunday	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
FuSE Working Sessions: Systems Engineering Application Extensions Stream	Sunday	08:00	10:00	In person session	Salon C	The SE Application Extensions stream integrates social sciences, soft systems, as well as	Bill Miller, Martina Feichtner, Tom Strandberg		FuSE
FuSE Working Sessions: Systems Engineering Foundations Stream	Sunday	08:00	10:00	In person session	Salon A	In order to yield predictable results Systems Engineering methods and tools need to be built on foundational principles that are provably true, and based on laws and axioms that can be tested for falsifiability similar to those in other well-established disciplines of science and engineering like Chemical Engineering, Electrical Engineering or Biological Engineering. These streams will formulate a set of candidates underlying laws of Systemics, the science at the foundation of Systems Engineering, Since Systems Engineering is primarily a cognitive science where teams of humans (using their brains) and computers (using algorithms) create and process informational artifacts such as requirements, functional decompositions, structural representations, models and simulations, and eventually digital twins, we hypothesize that the foundations of Systems Engineering are closely related to Information Theory, Complexity Science and Social Science. In this workstream we will first focus on finding agreement on the first law, tentatively formulated as "Conservation of System Complexity", which parallels the Conservation of Energy in Thermodynamics (1st Law) and the Conservation of Mass in continuum mechanics. Participants in this workstream will come from academia, industry and government agencies.	Martina Feichtner,		FuSE
FuSE Working Sessions: Systems Engineering Methodologies Stream	Sunday	08:00	10:00	In person session	Salon D	the effective engineering of systems to be fit for purpose in the presence of varying scale,	Bill Miller, Martina Feichtner, Christopher Hoffman		FuSE
FuSE Working Sessions: Systems Engineering Vision and Roadmaps Stream	Sunday	08:00	10:00		Lighthouse Ballroom	The Systems Engineering Vision and Roadmaps stream continuously refines, evolves, and complements the SE Vision 2035. Furthermore, we create an integrated set of roadmaps	Bill Miller, Martina Feichtner, Paul Schreinemakers		FuSE
Break	Sunday	10:00	10:30		Ballroom Foyer	IW2023 facilitates a moment and a place where attendees shall build networks, perform activities, and produce outcomes beyond their typical network and focus area. Question:			F&B
Competency Working Group	Sunday	10:30	18:00	Hybrid session	Salon B	What are you most excited about this IW and why?  WelcomeStatus of SECAG publicationAction Item List StatusPrioritize work items for IW and beyond	Clifford Whitcomb, Lori Zipes	Competency;;	Working Group
Configuration Management Working Group Meeting	Sunday	10:30	12:00		Pier 7		Aleksander Przybylo,	Configuration Management;;	Working Group
DEIX Standards	Sunday	10:30	12:00	Hybrid session	Salon F		Celia Tseng, Missy Wallace	Digital Engineering Information Exchange;;	Working Group
Exploring opportunity space using trade-offs	Sunday	10:30	12:00	Hybrid session	Salon C		Curt McNamara, Alex Wolf	Natural Systems;;	Working Group
INCOSE Fellows Selection	Sunday	10:30	12:00	Closed	Salon A		Danni DeRoche, Bob Kenley,	INCOSE Fellows;	Business Meeting
Committee Introduction to the Social Systems WG	Sunday	10:30	11:30	Hybrid session	Pier 10	closed vote. Timing: 90 minutes, but will go through lunch if needed.  This session will introduce the Social SystemsWorking Group to new members on those people interested in joining.	Michael Ryan Dana Polojarvi	Social Systems;	Working Group
Knowledge Mangement	Sunday	10:30	12:00		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	Robert Nilsson, Jean Duprez	Knowledge Management;;	Business Meeting
NAFEMS-INCOSE SMS WG Planning Meeting	Sunday	10:30	12:00	Hybrid session	Pier 6		Peter Coleman, Phyllis Marbach	NAFEMS-INCOSE Systems Modeling & Simulation;;	Working Group
Requirements Working Group Meeting	Sunday	10:30	12:00	In person session	Pier 4		Tami Katz, Lou Wheatcraft	Requirements;	Working Group
Resilient Systems Working Group SEBoK v2.8 Meeting	Sunday	10:30	12:00	Hybrid session	Salon H	SEBOK resilience sections update drafts - SEBoK vz.8.1st cycle May 2023* Resilience Engineering (update of existing section)* Resilience Modeling (new section)* LDSE (review of existing section, update if necessary)	Kenneth Cureton	Resilient Systems;;	Working Group
SE Al/Machine Learning Lightning Round	Sunday	10:30	17:30	Hybrid session and Available for Replay	Salon E	. ,	Tom McDermott, Barclay Brown		MBSE Workshop
SETDB Internal Process Review	Sunday	10:30	12:00	Hybrid session	Pier 1	where we are in the roadmap per the TPP, what needs to be done and the priority of tasks.	John Nallon, Stephane Lacrampe, Rene King	SE Tools Database;;	Business Meeting

STPA System Safety Workshop: Integrating System Safety with MBSE	Sunday	10:30	17:30	Hybrid session and Available for Replay	Salon D	Morning SessionIntroductions Context/level setting: getting everyone on the same Systems Safety pageSystems Safety Orientation (45 presentation, 45 Q&A) (Prof. Leveson) Includes: System Safety introductionDifference between RAMS & SafetyExample: STPAAfternoon SessionOpportunities / Next StepsPanel discussion on system safety including misconceptions, case studies, focusing on principals vs details: Panelist: 5-7 20 min. Case Studies with 10 min Q&AEmily Howard (Boeing) STPA in large commercial aircraft industryKyle Post (Ford) RAAML, System Safety and FordMatthew Hause (SystemM) Cyber Security perspective Joseph Dailey (Siemens) Integrating Systems Safety with the product development lifecycleMatt Shevland (Northrop Grumman) [Remote] Integrating Systems Safety with the product development Systems Safety with Vernacchia (GM) [Remote] System safety implementation at GM- Joint Panel Q&A with workshop participants	Dr. Nancy Leveson		MBSE Workshop
System Safety Working Group	Sunday	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 yearObjective: Agreement on a draft plan for the upcoming year and confirmation of interest amoung working group membersStructure: This meeting with combine presentations with active working sessionsTiming: This meeting with include two 60 segments	Duncan Kemp	System Safety;;	Working Group
EMEA Sector II meeting	Sunday	11:00	12:00	Hybrid session	Hideaway	EMEA chapter leader meeting and interested participantsProposed agenda:1) Welcome and Introduction?) Overview about INCOSE / EMEA activites & value of EMEA sectorTry to invite President / president elect / certification3) Collection of topics from participants4) Discussion5) Summary and conclusion	Sven-Olaf Schulze	Business Meeting;;	Business Meeting
IS 2023 TPC meeting	Sunday	11:00	16:00	Hybrid session	Pier 3	Purpose: Technical Planning meeting for the International Symposium 2023 Technical	Robert Wirthlin, Anabel Fraga	Business Meeting;;	Business Meeting
SBSE WG: Small Business and CAB	Sunday	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	Angela Robinson, SBSE Working Group,	Small Business Systems	Working Group
Engagement Lunch	Sunday	12:00	13:00		Lighthouse Ballroom	mentor and grow small businesses already within the community.  IW2023 facilitates a moment and a place where attendees shall build networks, perform activities, and produce outcomes beyond their typical network and focus area. Question:  What is your favorite systems engineering process to explain to others and why?	Ken Ptack	Engineering;;	F&B
Systems Thinking RoundTable (STRT)	Sunday	12:00	13:00	Hybrid session	Salon A	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. "Unking 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 hoppes?3. "What a situations and projects did you leave behind to come here, and what solud 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	Sue Gabriele, Jawahar (JB) Bhalla	Agile Systems and Systems Engineering; Complex Systems; Decision Analysis; Human Systems Integration; Natural Systems; Social Systems; Systems; Science; All Was;	Working Group
BoD Meeting	Sunday	13:00	17:30	Closed	Pier 5	lasm and craste: to increase time for each of us to talk from about	Marilee Wheaton		Business Meeting
FuSE Core Team	Sunday	13:00	17:00	Closed	Pier 6	The Co-theme of IW 2023 is the Future of Systems Engineering Initiative to realize the SE Vision 2035. This closed session is for FuSE stream leaders to work: Vision & Roadmaps, Foundations, Methodologies, and Application Extensions.	Bill Miller, Martina Feichtner		Business Meeting
How to apply for Academic Equivalency	Sunday	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.	Courtney Wright	Certification;	Working Group
Laws of nature and systems science	Sunday	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.	Curt McNamara, Dennis Tuckowski, Swami Natarajan, Javier Calvo	Natural Systems;Systems Science;;	Working Group
MBSE Patterns Working Group	Sunday	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	William Schindel	MBSE Patterns;;	Working Group
Requirements Working Group	Sunday	13:00	17:30	Hybrid session	Pier 4	http://www.compuiki.cra/MRSE/doku.php?id=mbca:pattarse:pattarse Requirements Working Group session on Guide to Writing Requirements	Tami Katz, Lou Wheatcraft	Requirements;;	Working Group
Meeting Review of INSIGHT Article Submissions	Sunday	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	Rick Dove	Agile Systems and Systems Engineering;;	Working Group
SETDB Roadmap Planning	Sunday	13:00	17:30	Hybrid session	Hideaway	presentations.  Future roadmap planning, strategy development for questionnaire development, product development and maintenance and evolution preparedness.	John Nallon, Rene King	SE Tools Database;;	Working Group

Smart Cities Initiative - Modeling Homelessness Use Case	Sunday	13:00		Hybrid session		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 Triming: 2 hours	Jennifer Russell, Marcel van de Ven	Complex Systems;Infrastructur e;MBSE Initiative;Smart Cities Initiative;Social Systems;Transportati on;;	Working Group
Social Systems WG Charter Review and Update	Sunday	13:00		Hybrid session		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.	Charlotte Dunford		Working Group
Systems and Software Interfaces Working Group (SaSIWG) "Open House"	Sunday	13:00		Hybrid session		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.			Working Group
Systems of Systems Working Group	Sunday	13:00		Hybrid session	Salon G	Review ongoing working group activities and plan for upcoming events	Alan Harding, Judith Dahmann	Systems of Systems	Working Group
Business Meeting TPP Walk-through	Sunday	13:00		Hybrid session	Pier 2	INCOSE Tech Ops Technical Process Plan process Conops review for users and IPC.	Tony Williams		Working Group
WSRC and other Chapter-led and Regional Conference Committees!	Sunday	13:00	14:30			Purpose: Regional Conference Planning - WSRC 2023 and beyondStructure: Hybrid; on site and remote participants Timing: 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? - le. 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 gong 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.	Susan Ronning, Paul White	Business Meeting;;	Business Meeting
Decision Analysis Data Model	Sunday	13:30	16:30	Hybrid session		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.	Frank Salvatore, Jared Smith, Greg Parnell		Working Group
Knowledge Management	Sunday	14:00	16:00	Hybrid session	Pier 2	Purpose: Working Session on the PrimerObjective: Establish a baseline for the primerStructure: On site decisionTiming: 2hr	Robert Nilsson, Jean Duprez		Working Group
Working Group Integration - Sharing common interests	Sunday	14:00		Hybrid session		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 necouraged 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.	William Scheible		Business Meeting
Architecture Working Group Meetings	Sunday	15:00		Hybrid session		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	Anand Kumar, Jean-Luc Garnier, Rolf Siegers		Working Group
Break	Sunday	15:00	15:30		Foyer	IW2023 facilitates a moment and a place where attendees shall build networks, perform activities, and produce outcomes beyond their typical network and focus area. Question:			F&B
Modeling Nature I	Sunday	15:00		Hybrid session	Pier 1	What are you most excited about this IW and why? - Intro to natural systems design and the natural systems primer. Curt McNamara - Overview of circular design challenges and opportunities. Kai	Curt McNamara, Dennis Tuckowski, Paul McGoey		Working Group
						Constantini			
Product Line Engineering Working Group - Open Workshop	Sunday	15:00	17:00	Hybrid session		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.			Working Group
systems engineering and lawmaking working group	Sunday	15:00		Hybrid session		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 WGs. 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	david schrunk, greg bulla		Working Group
CSWG Heuristics Focus Group Update	Sunday	15:30		Hybrid session	Salon F	Discussion of the continuing work on Complex Systems Heuristics and progress made by the focus group of the past year.	Michael Watson		Working Group

Harrisa analysias									
How to apply for ESEP	Sunday	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.	Courtney Wright	Certification;	Working Group
Systems Science Working Group Introduction	Sunday	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	Javier Calvo-Amodio, Swami Natarajan, James Martin	Systems Science;;	Working Group
WSRC and other Chapter-led and Regional Conference Committees!	Sunday	15:30	17:00	Hybrid session	Pier 11	Purpose: Regional Conference Planning - WSRC 2023 and beyondstructure: Hybrid; on site and remote participants Timing: 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 one 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 ging 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.	Susan Ronning, Paul White	Business Meeting;;	Business Meeting
Applying Complexity Heuristics to RAE- UK Use Cases	Sunday	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
TPP Walk-through	Consideration								
	Sunday	16:00	17:00	Closed	Pier 2	INCOSE Tech Ops Technical Process Plan process Conops review for users and IPC.	Tony Williams		Working Group
MBSE Social with MBSE Propeller Hat Awards	Sunday	18:00	17:00	In person session	Pier 2 The Strand	INCOSE Tech Ops Technical Process Plan process Conops review for users and IPC.	Tony Williams		
MBSE Social with MBSE Propeller Hat Awards Monday Fellows Policy	,			In person		INCOSE Tech Ops Technical Process Plan process Conops review for users and IPC.	Tony Williams  David Long		Group Social Event Business
MBSE Social with MBSE Propeller Hat Awards Monday Fellows Policy Group Registration	Sunday Monday Monday	18:00 07:00 07:00	19:00 07:45 17:00	In person session	The Strand  Pier 1  Registration Desk		David Long		Group Social Event Business Meeting Logistic
MBSE Social with MBSE Propeller Hat Awards Monday Fellows Policy Group	Sunday	18:00	19:00	In person session	The Strand Pier 1 Registration	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		Agile Systems and Systems Engineering;Complex Systems;Decision Analysis;Human Systems Integration;Natural Systems;Systems Science;All Was;	Group Social Event Business Meeting
MBSE Social with MBSE Propeller Hat Awards Monday Fellows Policy Group Registration Systems Thinking	Sunday Monday Monday	18:00 07:00 07:00	19:00 07:45 17:00	In person session  Closed  In person session	The Strand  Pier 1  Registration Desk	EVERYONE is invited to our daily Systems Thinking RoundTable, hosted by the Systems Science Working Group (ISSWG). 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. "Unking 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 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 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	David Long  Sue Gabriele, Jawahar (JB) Bhalla  Bill Miller, Martina Feichtner,	Systems Engineering;Complex Systems;Decision Analysis;Human Systems Integration;Natural Systems;Social Systems;Systems	Group Social Event  Business Meeting Logistic Working

FuSE Working Sessions: Systems Engineering Methodologies Stream	Monday	08:00		In person session		the effective engineering of systems to be fit for purpose in the presence of varying scale,	Bill Miller, Martina Feichtner, Christopher Hoffman		FuSE
FuSE Working Sessions: Systems Engineering Vision and Roadmaps Stream	Monday	08:00		In person session	Ballroom	The Systems Engineering Vision and Roadmaps stream continuously refines, evolves, and complements the SE Vision 2035. Furthermore, we create an integrated set of roadmaps	Bill Miller, Martina Feichtner, Paul Schreinemakers		FuSE
Break	Monday	10:00	10:30			IW2023 facilitates a moment and a place where attendees shall build networks, perform activities, and produce outcomes beyond their typical network and focus area. Question:			F&B
Applying Complexity Heuristics to RAE- UK Use Cases	Monday	10:30	12:30	Hybrid session	Pier 9	What are you most excited about this IW and why?  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	Dean Beale, Dorothy McKinney	Complex Systems;;	Working Group
Architecture Working Group Meetings	Monday	10:30	17:30	Hybrid session		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	Jean-Luc Garnier,	Architecture;	Working Group
Automotive Working Group Session				Hybrid session		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	Gary Rushton, Alain Dauron	Automotive;;	Working Group
CAB meeting	Monday			invitation only	Salon D	The CAB will review and update the CAB Needs. Invited working groups will brief the CAB. Meeting open to CAB representatives.	Ron Giachetti, Mike Dahlberg, Donald M. York		Business Meeting
Competency Working Group	Monday			Hybrid session	Pier 11	, ,	Clifford Whitcomb, Lori Zipes	Competency;;	Working Group
Digital Engineering Tool Selection Criteria	Monday	10:30	12:00	Hybrid session		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 Defenses 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.	Frank Salvatore	Decision Analysis,Digital Engineering Information Exchange;Knowledge Management;Process Improvement;Requir ements;SE Tools Database;Tools Integration & Model Lifecycle Management;;	Working Group
Discovering MoSSEC - the Meta Language for SE Collaboration	Monday	10:30	12:00	Hybrid session		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, DEM Supplier Tech Data Package collaboration, Applying MoSSEC at Airbus, Model Information Cards, MoSSEC and OSLC, and an open Discussion of MoSSEC Interoperability.	John Nallon, Kyle Hall	Tools Integration & Model Lifecycle Management;;	Working Group
Handbook Editor Meeting	Monday	10:30	12:00	Closed	Pier 1	Coordination with the INCOSE SE Handbook editors to finalize and publish the Fifth Edition of the handbook.	David Walden	SE Handbook;	Working Group
INCOSE 2023 IW OpenMBEE Workshop	Monday	10:30	17:00	Hybrid session		$\label{thm:constraints} A viles A genda: The OpenMBEE workshop will consist of presentations and talks on Monday, followed by a vendor digital poster session on Tuesday \\$	Fatma Karagoz, Robert Karban, Chris Delp, Karina Martinez, Daniel Siegl, Lucas Aviles, Robbie Robertson	OpenMBEE Community;	Working Group
INCOSE Fellows Meeting	Monday	10:30	12:00	Closed	Salon A	Purpose: General Fellows Business / PresentationsObjective: Structure: Agenda will be set closer to IW. Timing: 90 minutes	Danielle DeRoche, Bob Kenley, Michael Ryan	INCOSE Fellows;	Business Meeting
INCOSE Services - how can they help your working group (or you help services)?	Monday	10:30	12:30	Hybrid session		The purpose of this meeting is to share information about INCOSE services (current and indevelopment) 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 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

Knowledge Management	Monday	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	Robert Nilsson, Jean Duprez	Knowledge Management;	Working Group
PM-SE Integration WG: Co-Chairs Meeting	Monday	10:30	12:00	In person session	Pier 6	Purpose : To align PM-SE WG position with FuSE projectObjective : Know the involvement	Jean-Claude Roussel, Tina Srivastava, John Lomax	PM-SE	Working Group
Requirements Working Group Meeting	Monday	10:30	11:30	In person session	Pier 4	RWG and other Working Group collaboration session	Tami Katz, Lou Wheatcraft	Requirements;	Working Group
Scientific Foundations for Systems Science   Working Session	Monday	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	Javier Calvo-Amodio, Swami Natarajan, James Martin	Systems Science;;	Working Group
SETDB Operational Procedure Development and Finalization	Monday	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.	John Nallon, Stephane Lacrampe	SE Tools Database;;	Working Group
SysML v2 Overview and Demo	Monday	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, 2023.0bjective: 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&ATiming: How much time is allocated to the meeting? 3.5 hours	Sanford Friedenthal, Ed- Seidewitz	MBSE Initiative;;	Working Group
Telling Systems Stories Workshop: Making Technical Solutions Compelling	Monday	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.	Honor Lind, Barclay Brown	Professional Competencies & Soft Skills;Social Systems;Systems Engineering Quality	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.		Management (SEQM);;	
						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.  Rrown is Associate Director for Al Research at Collins Aerospace a division of			
DEIX Standards	Monday	11:00	12:00	Hybrid session	Salon H	DEIX digital engineering guide standard project planning session 1	Celia Tseng, Missy Wallace	Digital Engineering Information Exchange;;	Working Group
IS 2023 TPC meeting	Monday	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	Robert Wirthlin, Anabel Fraga	Business Meeting;;	Business Meeting
Lunch	Monday	12:00	13:00		Lighthouse Ballroom	IW2023 facilitates a moment and a place where attendees shall build networks, perform activities, and produce outcomes beyond their typical network and focus area. Question: What is your favorite systems engineering process to explain to others and why?			F&B
SEP luncheon	Monday	12:00	13:00	ASEP, CSEP and ESEPs only	Salon D	That is just to the systems engineering process to capability delices and any			Social Event
Systems Thinking RoundTable (STRT)	Monday	12:00	13:00	Hybrid session	Salon A	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 hote! Starbucks opens at 5:30). OUR SUGGESTED FOPICS 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 sistuations 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	Sue Gabriele, Jawahar (JB) Bhalla	Agile Systems and Systems Engineering;Complex Systems;Decision Analysis;Human Systems;Social Systems;Social Systems;Systems Science;All Was;	Working Group

Applying the Digital Viewpoint Model	Monday	13:00	17:00	In person session	Salon F	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 viewsObjective: 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 concept for specifying digital viewpoints, and overview of DVM concepts to define digital viewpoints given an pre-defined user story.  O Set up a common stakeholder definition — System Integrator (Acquirer) and Contractor (Supplier)  O Participants will portray the Contractor with a common sample spec sheet  .  Maybe some want to portray the System Integrator  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.	Terri Chan, Ken Zhang	Digital Engineering Information Exchange;;	Working Group
DEIX Standards	Monday	13:00	14:00	Hybrid session	Salon H	DEIX digital engineering guide standard project planning 2	Celia Tseng, Missy Wallace	Digital Engineering Information	Working Group
Discovering MoSSEC - the Meta Language for SE Collaboration	Monday	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 Netrieval 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.	John Nallon, Kyle Hall	Exchange;; Tools integration & Model Lifecycle Management;;	Working Group
Events Committee Stakeholder Meeting	Monday	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	Donna Long	Business Meeting;;	Business Meeting
FuSE Core Team	Monday	13:00	17:00	Closed	Pier 6	The Co-theme of IW 2023 is the Future of Systems Engineering Initiative to realize the SE Vision 2035. This Glosed session is for FuSE stream leaders to work: Vision & Roadmaps, Foundations, Methodologies, and Application Extensions.	Bill Miller, Martina Feichtner		Business Meeting
INCOSE Services Integration Model: Overview and Discussion	Monday	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 feedback Dijective: Overview of modeling activity provided, and participant feedback gatheredStructure: 20-minute overview of modeling activity and 40-minute discussionTiming: One hour	Heidi Davidz, Randall Satterthwaite	MBSE Initiative;Services;	Working Group
Modeling Cognitive Diversity Across the System Lifecycle	Monday	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. &htsp. An engaging two hours!	Alice Squires, Maria Romero, Anabel Fraga	MBSE Initiative;NAFEMS- INCOSE Systems Modeling & Simulation;Professio nal Competencies & Soft Skills;Social Systems;Training;DEI and EWLSE;	Working Group
OpenMBEE Tutorials	s Monday	13:00	17:00	Hybrid session	Pier 11	Purpose: OpenMBEE TutorialsObjective: Inform the community about OpenMBEE projectsStructure: TutorialTiming: 4h	Robert Karban, Fatma Karagoz, Karina Martinez, Chris Delp	OpenMBEE Community;	Working Group
PDP Workshop # 2 - Future Capability Needs for the PDP	Monday	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 (FoO/7" 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.	Kirk Michealson, Don Gelosh	Professional Development Portal (PDP);	Working Group
Requirements Working Group Meeting	Monday	13:00	17:30	Hybrid session	Pier 4	Requirements Working Group session on Guide to Writing Requirements	Tami Katz, Lou Wheatcraft	Requirements;;	Working Group
SBSE WG Working Session	Monday	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	Ken Ptack, Angela Robinson	Small Business Systems Engineering;;	Working Group
Smart Cities Initiative - Implementing the human-centered framework and mapping to UN Sustainability goals	Monday	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	Jennifer Russell, Marcel van de Ven	Enterprise Systems;Infrastructur e;Smart Cities Initiative;Social Systems;Transportati on;;	Working Group
Systems Security Engineering WG General Meeting	Monday	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.	Rick Dove	Systems Security Engineering;;	Working Group

Decision Analysis	Monday	13:30	16:30	Hybrid	Salon C	AgendaReview the Project Plans, goals, and success criteria for the Decision Analysis Data		Decision	Working
Data Model				session		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.	Jared Smith, Greg Parnell	Analysis,Digital Engineering Information Exchange,Knowledge Management;MBSE Initiative;MBSE Patterns,Process Improvement;Requir ements,Tools Integration & Model Lifecycle Management;;	Group
Knowledge Management	Monday	14:00	15:30	Hybrid session	Pier 8		Robert Nilsson, Jean Duprez	Knowledge Management;	Working Group
Quality Management and Leadership: Learning Workshop	Monday	14:00	15:30	Hybrid session	Salon G	Broaden your systems engineering leadership skills by adding quality managementIlmprove 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 (vS). 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.	Barclay Brown, Bill Scheible	Systems Engineering Quality Management (SEQM);;	
RSWG General Discussion / Business Meeting	Monday	14:00	16:00	Hybrid session	Salon H	Brainstorming of RSWG activities for 2023Sustainability and ResilienceVision 2035 RoadmapResilience PrimerLDSE PrimerStakeholder Needs/Priorities Alignment	Kenneth Cureton	Resilient Systems;;	Working Group
Break	Monday	15:00	15:30		Ballroom Foyer	IW2023 facilitates a moment and a place where attendees shall build networks, perform activities, and produce outcomes beyond their typical network and focus area. Question: What are you most excited about this IW and why?			F&B
Americas Sector Chapter Leaders	Monday	15:30	17:00	Hybrid session	Salon G	Chapter and Sector Leaders networking and training to learn more about INCOSE	renee Steinwand, Kevin Weinstein		Business Meeting
Orientation Discovering MoSSEC - the Meta Language for SE Collaboration	Monday	15:30	17:30	Hybrid session	Pier 5		John Nallon, Kyle Hall	Tools Integration & Model Lifecycle Management;;	Working Group
Emerging Trends in Systems Engineering Leadership	Monday	15:30	17:00	Hybrid session	Salon A	continually adapt our leadership styles to inspire and guide our teams through an ever-	Alice Squires, Maria Romero, Anabel Fraga	Architecture;Compet ency;Digital Engineering Information Exchange;Professiona I Competencies & Soft Skills;Social Systems;DEI and EWLSE;	Working Group
INCOSE IT and INCOSE Services Office Hours	Monday	15:30	17:00	Hybrid session	Pier 1		Heidi Davidz, Molly Kovaka	INCOSE IT and Services;	Working Group
Marketing and Social Media 101 Tutorial	Monday	15:30	16:30	In person session	Pier 8	The Marketing and Communications Team will share with members how to access INCOSE	Honor Lind, Jorge DaSilva		Business Meeting
PM-SE Integration WG: Awareness session / Overall status + Specific session on Serious Game	Monday	15:30	18:00	Hybrid session	Salon B	attendants aware of PM-SE Integration WG activities and encourage new	Jean-Claude Roussel, Tina Srivastava, John Lomax	PM-SE	Working Group
Applying Complexity Heuristics to RAE- UK Use Cases	/ Monday	16:00	17:30	Hybrid session	Pier 9	, ,	Dean Beale, Dorothy McKinney	Complex Systems;;	Working Group
Digital Engineering Measurement Framework	Monday	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.	Tom McDermott	MBSE Initiative;Measureme nt;;	Working Group
DoD Transition Guidance to SysML V2 Workshop	Monday	16:00	18:00	Hybrid session	Salon H	with making the transition to SysML 2.0. The workshop will elicit input from attendees on	Frank Salvatore, Sanford Friedenthal, Emily Bak		Working Group
Systems Engineering Artificial Intelligence Primer Update and Review Meeting	Monday	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
Standards Development Department Policy and Practices	Monday	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	Richard Martin	Standards Development Department;	Working Group

Horizon Scanning Initiative	Monday	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.	Tom McDermott	Business Meeting;;	Business Meeting
Tuesday Core Events	Tuesday	07:00	08:00	In person	Hideaway	IW wrap upClosing plenary slidesOther tasks as necessary	Donna Long	Business Meeting;;	Business
Committee Registration	Tuesday	07:00	15:00	session	Registration				Meeting Logistic
Systems Thinking RoundTable (STRT)	Tuesday	07:00	08:00	In person session	Desk Salon A	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 bour, 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 hoppe?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	Sue Gabriele, Jawahar (JB) Bhalla	Agile Systems and Systems Engineering;Complex Systems;Decision Analysis;Human Systems Integration;Natural Systems;Social Systems;Stystems Science;All Was;	Working Group
Agile Systems & SE WG General	Tuesday	08:00	10:30	Hybrid session	Salon A	learn and create to increase time for each of us to talk from about Intro to the working group, a review of current project status, proposed new projects, mini- workshop maybe, and general discussion.	Rick Dove	Agile Systems and Systems	Working Group
Meeting Annual TWG Working and Planning Session	Tuesday	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 volunteersAPTA & INCOSE: MOU and on-going collaborationNember 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 CommunicationsPlans for 2023 (see each Item above)Workshops/Presentation 1 - APTA SLE Standard Project UpdateWorkshops/Presentation 2 - Re-examining the MBSE potential	Dale Brown	Engineering;; Transportation Working Group	Working Group
Applying Complexity Heuristics to RAE- UK Use Cases	Tuesday	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) Engineerings 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	Dean Beale, Dorothy McKinney	Complex Systems;;	Working Group
Certification exam	Tuesday	08:00	11:00	Registration required	n 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			Business Meeting
Competency	Tuesday	08:00	09:30	Hybrid	Pier 4	Professionals (CSEPs). Contact: certification@incose.net  Action Item List StatusPrioritize work items for IW and beyond	Clifford Whitcomb,	Competency;;	Working
Working Group Digital Engineering Measurement Framework	Tuesday	08:00	10:30	session 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.	Lori Zipes Tom McDermott	MBSE Initiative;Measureme nt;;	Group Working Group
Digital Engineering Fool Selection Criteria	Tuesday	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 (DUSQF(RE)) 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.Agendas/Present the current version of the DE Tool Selection Criteria Breadout session to review/critique and extend the criteria Use case DiscussionThe plan is to have this product complete in time for the 2023 International Symposium.Please join the sessions and help out.	Frank Salvatore	Decision Analysis,Digital Engineering Information Exchange:Knowledge Management;Process Improvement;Requir imentis,SE Tools Database;Tools Integration & Model Lifecycle Management;;	Working Group
uSE Core Team	Tuesday	08:00	12:00	Closed	Pier 6	The Co-theme of IW 2023 is the Future of Systems Engineering Initiative to realize the SE Vision 2035. This closed session is for FuSE stream leaders to work: Vision & Roadmaps, Foundations, Methodologies, and Application Extensions.	Bill Miller, Martina Feichtner		Business Meeting
Handbook Editor Meeting	Tuesday	08:00	10:00	Closed	Hideaway	Coordination with the INCOSE SE Handbook editors to finalize and publish the Fifth Edition of the handbook.	David Walden	SE Handbook;	Working Group
Meeting How to apply for CSEP	Tuesday	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.	Courtney Wright	Certification;	Working Group

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.

INCOSE 2023 IW OpenMBEE Workshop	Tuesday	08:00	10:00	Hybrid session	Salon E	Time 9:00 AM - 10:30 AM/Vendor Poster Sessions10:30-11:00Break11:00 AM - 11:45 AM/Open Space/Unconference Sessions11:45 AM - 12:00 PM/Wrap-up	Fatma Karagoz, Robert Karban, Chris Delp, Karina Martinez, Daniel Siegl, Lucas Aviles,	OpenMBEE Community;	Working Group
IS 2023 TPC meetin	g Tuesday	08:00	10:00	Hybrid session	Pier 3	Purpose: Technical Planning meeting for the International Symposium 2023 Technical Program Objective: 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	Robbie Robertson Robert Wirthlin, Anabel Fraga	Business Meeting;;	Business Meeting
NAFEMS-INCOSE SMS Community Meeting	Tuesday	08:00	10:00	Hybrid session	Pier 10	Following previous years' IW events, the SMS WG invites participants to come together	Phyllis Marbach, Peter Coleman	NAFEMS-INCOSE Systems Modeling & Simulation;;	Working Group
Organising to do Systems Engineering - what information is out there	Tuesday	08:00	10:00	Hybrid session		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 groups 'I'm agendal isSummary of output from the July strategy session (scene setting) Discussion / capture of what different working groups have done, are doing or could do to 2.1) Presentation of analysis / synthesis / affinitisation of the material that came from the strategy session to set the scene.2.2) Extension / development of those ideas Specific 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	Richard Beasley	Organising to do Systems Engineering;	Working Group
PDP Workshop # 3 - Providing Content for the PDP	Tuesday	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.	Kirk Michealson, Don Gelosh	Professional Development Portal (PDP);	Working Group
PM-SE Integration WG : Specific Working session on Strategic Planning	Tuesday	08:00	10:00	Hybrid session	Salon G		John Lomax	PM-SE	Working Group
Management Product Line Engineering Working Group - Member Working Meeting	Tuesday	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.	Randy Pitz, Drew Stovall, Marco Forlingieri	Product Line Engineering;;	Working Group
Standards Development Department Policy and Practices	Tuesday	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	Richard Martin	Standards Development Department;	Working Group
Wrap up FuSE	Tuesday	08:00	09:30	In person session	Salon D	The Co-theme of IW 2023 is the Future of Systems Engineering Initiative to realize the SE Vision 2035. Outputs from the four stream workshops will be reviewed in-depth: Vision & Roadmaps, Foundations, Methodologies, and Application Extensions.	Bill Miller, Paul Schreinemakers, Chirstopher Hoffman, Oliver de Weck, Tom Strandberg		FuSE
Al Effects on Systems Engineering	Tuesday	09:00	10:30	Hybrid session	Salon F		Barclay Brown, Ali Raz, Ramakrishnan Raman	Artificial Intelligence Systems;;	Working Group
How to renew ASEP or CSEP certification		09:00	10:00	In person session		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.	Courtney Wright	Certification;	Working Group
INCOSE EMEA WSE 2023 committee meeting	C Tuesday	09:00	10:00	Hybrid session		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.	Anabel Fraga	Business Meeting;Events EMEA;	Business Meeting
IEC Meeting	Tuesday	09:30	10:00	Hybrid session	Pier 4		Richard Martin		Business Meeting
Break	Tuesday	10:00	10:30	,	Ballroom Foyer	IW2023 facilitates a moment and a place where attendees shall build networks, perform activities, and produce outcomes beyond their typical network and focus area. Question:			F&B
Wrap up FuSE	Tuesday	10:30	11:00	Hybrid session and Available for Replay	Salon D	What are you most excited about this IW and why?  Review the objectives for FuSE to realize the SE Vision 2035. Status the engagement of	Bill Miller, Martina Feichtner, Christopher Hoffman		Plenary
Wrap up MBSE	Tuesday	11:00	11:30	Hybrid session and Available for Replay	Salon D		Troy Peterson, Mark Sampson		Plenary
Closing Plenary	Tuesday	11:30	12:00		Salon D				Plenary

Networking Lunch - WG Market Place	Tuesday	12:00	14:30	In person session	Lighthouse Ballroom				Social Even
Systems Thinking RoundTable (STRT)	Tuesday	12:00	13:00	Hybrid session	Salon A	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	Sue Gabriele, Jawahar (JB) Bhalla	Agile Systems and Systems Engineering;Complex Systems;Decision Analysis;Human Systems Integration;Natural Systems;Social Systems;Systems Science;All Was;	Working
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