Meeting Name	Time Start	Time End	Meeting Listing	Meeting Description	Contact Name	Related WG	Type
Monday							
Requirements Working Group - General Debrief of 2020	15:00	16:00	Open/Working session	The Requirements Working Group has been busy generating new products, holding meetings, authoring SE Handbook material, and supporting the INCOSE community. This initial IW2021 session is to do a synopsis of the activities of the last year, and set the stage for the discussions on the new products that will occur throughout the IW.	Tami Katz	Requirements;	Working Group
Configuration Management WG Planning Meeting	15:30	17:30	Open/Working session	This is a general Configuration Management Working Group meeting with the following purpose:review leadership roles and elect new people if neededreview open opportunities and check any volunteersreview charter and update as necessaryreview achievements for 2020review priorities for 2021review work breakdown structure and adjust in line with priorities for 2021Kick-start activities for 2021 in terms of planning (regular meetings and frequency)Any other Business	Adriana D'Souza, Paul Nelson, Dale Brown	Configuration Management;	Working Group
Requirements Working Group - Introduction to the Needs and Requirements Lifecycle Manual	17:00	19:00	Open/Working session	An overview of the newest Requirements Working Group product; Product Lead Lou Wheatcraft will walk through the manual, giving an introduction to the research that resulted in new concepts, terminology, and recommended practice. Material is the foundational content for the corresponding guidelines that will be discussed later at the IW. Draft copies of the manual will be posted on the RWG site prior to IW2021.	Tami Katz, Lou Wheatcraft	Integration, Verification & Validation (emerging);Requirements;	Working Group
Tuesday							
Requirements Working Group - Introduction to the Needs and Requirements Lifecycle Manual	16:00	18:30	Open/Working session	Follow-up meeting to discuss the content of the Needs and Requirements Lifecycle Manual with the RWG and INCOSE community. Draft copies of the manual will be posted on the RWG site prior to IW2021.	Tami Katz, Lou Wheatcraft	Integration, Verification & Validation (emerging);Requirements;	Working Group
Wednesday							
Requirements Working Group - Introduction to new Guidelines	17:00	18:30	Open/Working session	An overview of Developing and Managing Needs and Requirements Guideline; Product Lead Kevin Orr will walk through the manual, giving an introduction to how it provides practical application of the concepts from the new Needs and Requirements Lifecycle Manual. Draft copies of the Guideline will be posted on the RWG site prior to IW2021.	Tami Katz	Integration, Verification & Validation (emerging);Requirements;	Working Group
Requirements Working Group - Introduction to new Guidelines	18:30	20:00	Open/Working session	An overview of the Verification and Validation Guideline; Product Lead Raymond Wolfgang will walk through the manual, giving an introduction to how it provides practical application of the concepts from the new Needs and Requirements Lifecycle Manual. Draft copies of the Guideline will be posted on the RWG site prior to IW2021.	Tami Katz	Integration, Verification & Validation (emerging);Requirements;	Working Group
Thursday							
SOS Working Group Business Meeting	17:00	19:00	Open/Outreach	Business Meeting that will review working group status, and discuss future plansOngoing activities include SOS webinar series, contributions to: SE Handbook, SE VIsion, SE Body of Knowledge, update to ISO/IEC/IEEE 15288Upcoming conferences and workshops include IEEE SOSE 2021, IS2021, IEEE SYSCON	Alan Harding, Judith Dahmann	System of Systems;	Working Group
Friday							
Telecommunications Working Group Meeting	00:00	03:00	Open/Working session	Planning session - reviewing recent activities of the Telecommunications Working Group, and planning future work. All welcome to contribute ideas on how systems engineering can improve practice in telecommunications.The Telecommunications Working Group aims to enable telecommunications systems stakeholders and providers to better support their users:Critical and emergency services personnel;Federal and municipal governments, utilities and transportation agencies;Enterprise and consumer users of commercial telecommunications services; andThe broader public.The WG intends to be:A forum for telecommunications practitioners to discuss problems and challenges;A forum for systems engineers who are interested in telecommunications applications;INCOSE's lead forum to advance the application of systems engineering for telecommunications.The purpose of the WG is to improve delivery of telecommunications solutions by enhancing the systems engineering body of knowledge for telecommunications applications.	Dan Spencer, John Risson, Susan Ronning	Telecommunications;	Working Group
Training Working Group	00:00	01:00	Open/Outreach session	Promote the Training Working Group to attendees and recruit training module presenters.	Gabriela Coe, John Clark	Training;	Working Group
Systems Thinking RoundTable (STRT)	04:00	05:00	Open/Working session	OUR FORMAT is a reflective practice during which each participant is given equal time to comment on a selected topic or trend impacting our discipline. We begin by listening to the suggested topics and short guidelines for five minutes. We then spend the remaining 50 minutes listening to, and offering an individual comment. The time is divided equally among all present (e.g., 27 people = 2 minutes each). Each day, a different topic will be suggested by a different volunteering facilitator in attendance. Folk wisdom and compelling research indicate that participants experience surprising benefits from this activity after just a few sessions. Experience with this format has resulted in the following theory: Just as we break the sound barrier when we travel faster than the speed of sound, we break the communication barrier when we hear 30 authentic viewpoints in 60 minutes. Used regularly, benefits accrue at compound interest.	Sue Gabriele	Systems Science;#Transformational	Workshop
Use Cases for Guide to ISO/IEC 42020	09:30	11:30	Open/Working session	This workshop is part of our effort to prepare a Guide to ISO/IEC/IEEE 42020 Architecture Processes. The ArchWG has been heavily involved in the development of the ISO/IEC/IEEE 420X0 series of standards of which consist of ISO/IEC/IEEE 42010 Architecture Description. ISO/IEC/IEEE 42020 Architecture processes, and ISO/IEC/IEEE 42030 Architecture description. The Guide to ISO/IEC/IEEE 42020 is a planned ArchWG product that will integrate the series of standards with guidance to produce and end-to-end architecting effort. The workshop will gather use case scenarios and requirements for the Guide. ArchWG also plans a session prior to IW'21 for those not already familiar with the specifications of the three standards in the 420X0 series.	Richard Martin, Anand Kumar	Architecture;	Working Group
Break	10:00	10:30	Open		FALSE		F&B
We chose MBSE: What's next?	10:00	12:00	Open/Working session	Introduce MBSE pitfalls and explain how to avoid then in an interacting way featuring presentation of MagicGrid framework and four interactive group sessions. This type of workshop has been proven in annual systems engineering conferences as very successful one a few years back. Now with some modifications it can successfully go online. Please note that the time is indicated in CET (could not find a way to select timezone).	Aurelijus Morkevicius	MBSE Initiative;SE in Early Stage Research & Development;Systems Engineering Case Study;#Transformational	Workshop
Human Systems Integration Evolution in the Digital Society	11:00	15:00	Open/Working session	Goals: provide latest information and state of the art on HSI and create interactive discussions on contemporary HSI issues -- everyday we will have a summary and synthesis panel	Guy Andre Boy	Human Systems Integration;#Analytic	Workshop
Break	12:00	13:00	Open		FALSE		F&B
DA working group	12:00	13:30	Open/Working session	Decision Analysis and Model Based Systems Engineering	Frank Salvatore	Decision Analysis;MBSE Initiative;MBSE Patterns;Model-based Conceptual Design;	Working Group
Social Systems Working Group Introductory Session	12:00	13:00	Open/Working session	Come learn about the Social Systems Working Group! We will discuss what we have planned for 2021, and we welcome input from attendees. This is a session for those who are interesting in joining the SocWG or for those who just want to learn more about the group.	Erika Palmer	Social Systems;	Working Group
Digital Engineering Body of Knowledge	13:00	15:00	Open/Working session	Review the vision, goals, objectives for the development of the Digital Engineering Body of Knowledge.Identify the DEBOK system usesIdentify the DEBOK information needsIdentify DEBOK hosting alternativesIdentify DEBOK governance approachIdentify DEBOK information organization	Frank Salvatore	Competency;Digital Engineering Information Exchange;Knowledge Management & Ontologies;Life Cycle Management;MBSE Initiative;MBSE Patterns;Measurement;Model-based Conceptual Design;Object-Oriented SE Method;Process Improvement;Product Lines;Tools Integration & Model Lifecycle Management;#Transformational	Workshop
Level Up your LinkedIn and Grow Your Network	13:00	15:00	Open/Outreach session	Global networking has taken a new avatar! And what better platform than LinkedIn for systems-minded professionals to connect with over 760 million users with more than 260 million monthly active users. Of those Linkedin users who are engaging with the platform monthly, 40% access it on a daily basis. LinkedIn is often misconstrued as only a "job search" platform; however, LinkedIn can also be leveraged to create and grow your network and increase your visibility to your network and beyond by sharing your expertise. In this workshop, we will review how to level up your LinkedIn profile, the art and science of writing a post on LinkedIn, and hacks to keep in mind. Attendees will complete and share a writing exercise as part of the workshop.Goals of the workshop Build your visibility as a thought leaderNetwork with like-minded professionalsWorkshop Agenda:Profile optimizationBuild content strategy Writing exercise - includes peer feedbackHacks to keep in mindWorkshop Prerequisites:Participants need to have an active LinkedIn account to participate in the workshop.The LinkedIn profile should be reasonably up to date.	Alice Squires, Stueti Gupta, Erika Palmer	Competency;Empowering Women;Social Systems;Soft Skills;Training;Professional Networking: Virtual;#Transformational	Workshop
PM-SE Integration Working Group	14:00	15:30	Open/Outreach session	Overview of the PM-SE Integration Working Group and description of initiatives. Intended audience is current WG members and new interested volunteers.	Tina Srivastava, Jean-Claude Roussel, John Lomax	PM-SE Integration;	Working Group
Break	15:00	15:30	Open		FALSE		F&B
INCOSE Leadership Brief	15:30	17:30	Open		FALSE		Plenary
Configuration Management WG Interactive Workshop	17:30	19:30	Open/Working session	In the two hours we will do a final review of the following sections of the 5th Edition of the INCOSE Handbook:configuration management process (including CM for MBSE)information management process (including data as master)traceability (new section!)	Adriana D'Souza, Paul Nelson, Dale Nelson	Configuration Management;#Process	Workshop
Knowledge Management Introduction	17:30	19:30	Open/Working session	This session aims at introducing the WG area of Knowledge Management (KM) and set the stage for work 2021. We "restarted" in 2020 and this session aims at describing where we come from and what our objectives are. We will refine our way of working based on lessons learned from last year and decide on how to move forward with our way of organising the work, over the net, and how we commit to work packages to be able to work 2021. We will also refine our charters, and clarify WG objectives in 2021. This session is Chaired by Jean and Robert. New ideas are welcomed please mail Jean and Robert two weeks before session in that case.	Robert Nilsson	Knowledge Management & Ontologies;	Working Group
Opening: MBSE Initiative Update	17:30	18:00	Open		Mark Sampson	#MBSE	Workshop
Critical Infrastructure Protection & Recovery	18:00	20:00	Open/Outreach session	Infrastructure Resilience and Future Government Strategies & Systems Perspectives..?	John Juhasz	Anti-terrorism International;Architecture;Complex Systems;Critical Infrastructure Protection and Recovery;Infrastructure;Power & Energy Systems;Resilient Systems;Risk Management;Smart Cities Initiative;System of Systems;Systems Security Engineering;Telecommunications;#Application	Workshop
INCOSE Ambassadors and Relationship Managers	18:00	20:00	Open/Working session	Meet to discuss roles, responsibilities, accountabilities, and authorities (R2A2s) of INCOSE Ambassadors and Relationship Managers. Differentiate between these two roles and update INCOSE Outreach policies accordingly. Meet with current INCOSE membership acting in these roles and solicit input.	Mitchell Kerman, Valkand Jhaveri	Business Meeting;Update to INCOSE Outreach policies;#Interactive	Workshop
ISO MBSSE Draft Standard Review	18:00	21:00	Closed	Collate, review, and disposition review team comments on the draft International Organization for Standards Model Bases Systems and Software Engineering Standard	Robert Malone	Tools Integration & Model Lifecycle Management;	Working Group
MBSE Keynote Speaker: Culture Change Panel	18:00	19:00	Open		Dr. Willy Donaldson, Oli De Weck, David Long, Tom McDermott, Mark Sampson	#MBSE	Workshop
Product Line Engineering Working Group General Meeting	18:00	19:00	Open/Working session	Join us for the PLE WG's General Meeting to connect with PLE experts, find out what we're working on, and learn how you can get involved.We'll start with a review of our current projects, then open the floor to new members and new ideas.Want to learn more about PLE?Have questions for practicing PLE experts?Want to exchange ideas and how to apply PLE?Have an idea on how to inspire and guide practicing Systems Engineers?The PLE WG General Meeting is the place to get these answers or find the collaborators to help you realize your ideas.	Drew Stovall, Rowland Darbin	Product Lines;	Working Group
Smart Cities -Definition and Metrics, Final Product Prep	18:00	20:00	Open/Working session	Over the past year, we have evolved a Smart Cities definition, metrics, and reference model. In this working session, we will review the product and prepare for submission to INCOSE Tech Ops for review and approval.	Jennifer Russell, Marcel van de Ven	Smart Cities Initiative;	Working Group

Session	Start	End	Type	Description	Presenter(s)	Categories	Format
Systems Thinking RoundTable (STRT)	18:00	19:00	Open/Working session	OUR FORMAT is a reflective practice during which each participant is given equal time to comment on a selected topic or trend impacting our discipline. We begin by listening to the suggested topics and short guidelines for five minutes. We then spend the remaining 50 minutes listening to, and offering an individual comment. The time is divided equally among all present (e.g., 27 people = 2 minutes each). Each day, a different topic will be suggested by a different volunteering facilitator in attendance. Folk wisdom and compelling research indicate that participants experience surprising benefits from this activity after just a few sessions. Experience with this format has resulted in the following theory: Just as we break the sound barrier when we travel faster than the speed of sound, we break the communication barrier when we hear 30 authentic viewpoints in 60 minutes. Used regularly, benefits accrue at compound interest.	Sue Gabriele	Systems Science;#Transformational	Workshop
Systems Engineering Heuristics and Systems Engineering Principles Bridging Team Report	19:00	21:00	Open/Working session	The Principles and Heuristics Bridging Team will report on the activities and approach in defining the relationships of the Systems Engineering Heuristics with the Systems Engineering Principles and System Sciences Principles.	Michael Watson, Dorothy Mckinney, Javier Calvo-Amodio	Systems Science;Systems Engineering Principles Action Team;#Transformational	Workshop
Understanding Information Lifecycles, Digital Threads and Value Stream Mapping	19:00	20:00	Open/Outreach session	Present concepts of applying Information Lifecycle analysis to Digital Threads and Value Streams for further discussion.	Ian phillips	Architecture;Digital Engineering Information Exchange;Enterprise Systems;Life Cycle Management;Process Improvement;#Transformational	Workshop
Opening: Inspire MBSE Lightning Talks	19:10	19:30	Open		FALSE	#MBSE	Workshop
Reconciling the past with future	19:30	19:50	Open		Juan Navas	#MBSE	Workshop
Schema, Metamodels, & Ontologies	19:50	20:10	Open		David Long	#MBSE	Workshop
Enterprise Systems Working Group (ESWG) General Meeting	20:00	23:00	Open/Outreach	Review progress since IW2020Identify collaborative opportunities with other WGsDevelop SMART goals for 2021	Kevin Nortrup, Tom McDermott	Enterprise Systems;	Working Group
Systemic Transformation via Capability Management System	20:10	20:30	Open		Bob Sherman	#MBSE	Workshop
INCOSE Model-Based Capabilities Matrix - Evolution	20:30	22:30	Open/Working session	10 minutes Welcome, Agenda and Logistics15 mintues Matrix and User's Guide Overview, Peek at the candidate US Air Force Metrics Program30 minutes candidate best practices, lessons learned and pro tips45 minutes Working Group Real Time Comments on the Matrix and User's Guide - content changes, format changes20 minutes Recommended Actions Items	Albert Hoheb, Michael Russell	Model-Based Capabilities Matrix Challange Team;#Analytic	Workshop
Resilient Hospital Reference Model	20:30	20:50			Howard Lykins	#MBSE	Workshop
Treadstone+1: SAIC Public Validation Rules	20:50	21:10	Open		Michael Vinarcik	#MBSE	Workshop
Certification Breakout Discussions	21:00	22:30	Open/Outreach session	I'd like to have 90 minutes total time and 4 breakout rooms, each with a SME moderator / host. We'd alternate between 10 minutes of host presentation to the full group and 15-20 minutes of discussion within the breakouts. The three topics covered would be: 1. Which certification level is right for you? (breakouts: probably ASEP but maybe CSEP, probably CSEP but maybe ASEP, probably CSEP but maybe ESEP, and probably ESEP but maybe CSEP) Main presentation would describe what INCOSE certification is and the high level requirements for each 2. How do I fill out the application form or prepare for the exam? (breakouts: experience documentation for CSEPs and ESEPs from defense / aerospace, experience documentation for CSEPs and ESEPs from other domains, preparing for the knowledge exam for ASEPs and CSEPS from defense / aerospace, preparing for the knowledge exam for ASEPs and CSEPs from other domains) Main presentation would show the application form and how experience is documented, and also describe exam format. 3. What about references, interview, leadership for ESEPs and academic equivalencies? (breakouts: identifying and working with your references for CSEP or ESEP, preparing for the ESEP interview, ESEP leadership documentation, academic equivalencies) Main presentation would describe the requirements for these things, including transition between cert levels and general equivalency options. Participants would choose to attend this session because they wanted to know more about INCOSE Certification. Most would want information presented to them, not yet having specific questions in mind. Many will identify questions during the session and will appreciate getting them immediately answered verbally or in written chat. General questions they will have: Should I get certified? How do I get certified? Will my experience / degree be enough for a particular certification level? How do I prepare for the exam? (	Courtney Wright	#Certification;	Workshop
Critical Infrastructure Protection & Recovery	21:00	23:00	Open/Outreach session	Meeting seeks interaction between cognizant individuals/ thought leaders/ systems engineers in diverse working groups to help organize a systematic approach to protecting our infrastructures from a spectrum of threat scenarios, including Cyber, Electro-magnetic, and physical attacks. Mitigation of risk to populations and infrastructure assets is a key objective.	John Juhasz	Anti-terrorism International;Architecture;Complex Systems;Critical Infrastructure Protection and Recovery;Infrastructure;Power & Energy Systems;Resilient Systems;Risk Management;Smart Cities Initiative;System of Systems;Systems Security Engineering;Telecommunications;#Application	Workshop
Fellows Selection Committee	21:00	23:00	Closed	The Fellows Selection Committee and Fellows meet to discuss nomination packages and vote on candidates for INCOSE Fellow Award	Gregory Parnell	Fellow Committee	Working Group
Opening:Inspire MBSE Lightning Talks	21:30	21:50	Open		FALSE	#MBSE	Workshop
Grab-an-go MBSE for smallsats	21:50	22:10	Open		Samantha Indre, Taekyoo Won	#MBSE	Workshop
Modeling the Mission Dimension	22:10	22:30	Open		Jose Fernandez	#MBSE	Workshop
Integrated MBSE in Engineering Education	22:30	22:50	Open		Dr. Hazim El Mounayri	#MBSE	Workshop
SE Inspire MBSE Lightning Speaker Interaction/Q&A	22:50	23:50	Open		FALSE	#MBSE	Workshop
MBSE Workshop Wrap up & Look ahead	23:50	23:59			Mark Sampson, Troy Peterson	#MBSE	Workshop

Saturday

Session	Start	End	Type	Description	Presenter(s)	Categories	Format
Telecommunications Working Group Meeting	00:00	03:00	Open/Working session	Planning session - reviewing recent activities of the Telecommunications Working Group, and planning future work. All welcome to contribute ideas on how systems engineering can improve practice in telecommunications.The Telecommunications Working Group aims to enable telecommunications systems stakeholders and providers to better support their users:Critical and emergency services personnel;Federal and municipal governments, utilities and transportation agencies;Enterprise and consumer users of commercial telecommunications services; andThe broader public.The WG intends to be:A forum for telecommunications practitioners to discuss problems and challenges;A forum for systems engineers who are interested in telecommunications applications;INCOSE's lead forum to advance the application of systems engineering for telecommunications.The purpose of the WG is to improve delivery of telecommunications solutions by enhancing the systems engineering body of knowledge for telecommunications applications.	Dan Spencer, John Risson, Susan Ronning	Telecommunications;	Working Group
Use Cases for Guide to ISO/IEC 42020	01:00	03:00	Open/Working session	This workshop is part of our effort to prepare a Guide to ISO/IEC/IEEE 42020 Architecture Processes. The ArchWG has been heavily involved in the development of the ISO/IEC/IEEE 420X0 series of standards of which consist of ISO/IEC/IEEE 42010 Architecture Description, ISO/IEC/IEEE 42020 Architecture processes, and ISO/IEC/IEEE 42030 Architecture description. The Guide to ISO/IEC/IEEE 42020 is a planned ArchWG product that will integrate the series of standards with guidance to produce and end-to-end architecting effort. The workshop will gather use case scenarios and requirements for the Guide. ArchWG also plans a session prior to IW'21 for those not already familiar with the specifications of the three standards in the 420X0 series.	Richard Martin, Anand Kumar	Architecture;	Working Group
Systems Thinking RoundTable (STRT)	04:00	05:00	Open/Working session	OUR FORMAT is a reflective practice during which each participant is given equal time to comment on a selected topic or trend impacting our discipline. We begin by listening to the suggested topics and short guidelines for five minutes. We then spend the remaining 50 minutes listening to, and offering an individual comment. The time is divided equally among all present (e.g., 27 people = 2 minutes each). Each day, a different topic will be suggested by a different volunteering facilitator in attendance. Folk wisdom and compelling research indicate that participants experience surprising benefits from this activity after just a few sessions. Experience with this format has resulted in the following theory: Just as we break the sound barrier when we travel faster than the speed of sound, we break the communication barrier when we hear 30 authentic viewpoints in 60 minutes. Used regularly, benefits accrue at compound interest.	Sue Gabriele	Systems Science;#Transformational	Workshop
Digital Engineering Body of Knowledge	08:00	10:00	Open/Working session	Review the vision, goals, objectives for the development of the Digital Engineering Body of Knowledge.Identify the DEBOK system usesIdentify the DEBOK information needsIdentify DEBOK hosting alternativesIdentify DEBOK governance approachIdentify DEBOK information organization	Frank Salvatore	Competency;Digital Engineering Information Exchange;Knowledge Management & Ontologies;Life Cycle Management;MBSE Initiative;MBSE Patterns;Measurement;Model-based Conceptual Design;Object-Oriented SE Method;Process Improvement;Product Lines;Tools Integration & Model Lifecycle Management;#Transformational	Workshop
HSI Working Group open session	09:00	12:00	Open/Working session	This meeting will be organized to present the latest information on the HSI WG and discuss issues, perspectives and decide the next action items.	Guy Andre Boy	Human Systems Integration;	Working Group
Break	10:00	10:30	Open		FALSE		F&B
Capture SE concepts through knowledge modeling	10:00	12:00	Open/Working session	We want to capture a model of Systems Engineering main concepts.The objective is to get feedback from other WG on a project idea.	Robert Nilsson, Jean Duprez	Knowledge Management & Ontologies;	Working Group
Systems Thinking 101	10:00	12:00	Open/Working session	Broaden the knowledge in the understanding and application of systems thinking. This is applicable across working groups and members of INCOSE. The proposed workshop outline / agenda is as follows:Joining and Housekeeping Welcome and Introductions Motivation for Systems Thinking ("WHY") Breakout Session 1 - What is Systems Thinking Group Feedback Summary - first 3 volunteers Presentation on "WHAT IS" Systems Thinking Breakout Session 2 - How do we understand a System Group Feedback Summary - first 3 volunteers Presentation on "HOW does one Understand a System" Discussion Q&A on the "WHY", "WHAT" and "HOW" Exercise - Apply ST - Identify System of Interest, Stakeholders/Boundaries Discussion & Q&A on Applying ST Closing	Jawahar Bhalla, Kerry Lunney	Complex Systems;Human Systems Integration;Knowledge Management & Ontologies;MBSE Initiative;Model-based Conceptual Design;System of Systems;Systems Science;#Interactive	Workshop
Human Systems Integration Evolution in the Digital Society	11:00	15:00	Open/Working session	Goals: provide latest information and state of the art on HSI and create interactive discussions on contemporary HSI issues -- everyday we will have a summary and synthesis panel	Guy Andre Boy	Human Systems Integration;#Analytic	Workshop
Break	12:00	13:00	Open		FALSE		F&B
DA working group	12:00	13:30	Open/Working session	Decision Analysis and Set Based Design	Frank Salvatore	Decision Analysis;MBSE Initiative;MBSE Patterns;Model-based Conceptual Design;	Working Group
Knowledge Management & Ontology primer	13:00	15:00		This session focuses on the work with a primer for KM. Jean D. leading the work will chair the session and taking us through the plan for TPP as well as intended plan for further work. We have revised our ideas over the year and now we need to decide how to move forward, do a detailed action plan and also spend time on revising the work so far and improving the primer itself.	Robert Nilsson	Knowledge Management & Ontologies;	Working Group
Smart Cities - Case Study - City of Ulaanbaatar: Product creation	13:00	15:00	Open/Working session	The SCI developed Smart City definition, reference model and metrics were applied to the City of Ulaanbaatar, Capitol of Mongolia. The application of the model demonstrated its potential and is in progress for collaboration with the City. This session will include a review of the application of the model to the City of Ulaanbaatar and a working session to document a case study of the application.	Jennifer Russell, Marcel van de Ven	Smart Cities Initiative;	Working Group
Social Systems Primer Workshop	13:00	15:00	Open/Working session	If there are topics you would like to see covered in the Social Systems Primer, this is your last chance to get them included! Please also attend if you want to help write it. In this session the outline for the Social Systems Primer will be presented and discussed. We will focus on the following questions: (1) Have we included everything we should, (2) Have we have a clear understanding as to why each topic is important to tackle? Erika Palmer and Charlotte Dunford (Social System Primer Editors) would like to ensure that at the end of the session that not only do we have a final outline, but we also have need statements to supplement each topic. We wish to recruit social scientists, unfamiliar with engineering, as authors and wish to give them clarity as to the need they are fulfilling and why it is important. We will focus on recruiting authors in Spring 2021.	Erika Palmer	Social Systems;#Transformational	Workshop

Session	Start	End	Access	Description	Leaders	Topics	Type
Systems Thinking 101	13:00	15:00	Open/Working session	Broaden the knowledge in the understanding and application of systems thinking. This is applicable across working groups and members of INCOSE. The proposed workshop outline / agenda is as follows:Joining and Housekeeping Welcome and Introductions Motivation for Systems Thinking ("WHY") Breakout Session 1 - What is Systems Thinking Group Feedback Summary - first 3 volunteers Presentation on "WHAT IS" Systems Thinking Breakout Session 2 - How do we understand a System Group Feedback Summary - first 3 volunteers Presentation on "HOW does one Understand a System" Discussion & Q&A on the "WHY", "WHAT" and "HOW" Exercise - Apply ST - Identify System of Interest, Stakeholders/Boundaries Discussion & Q&A on Applying ST Closing	Jawahar Bhalla, Kerry Lunney	Complex Systems;Human Systems Integration;Knowledge Management & Ontologies;MBSE Initiative;Model-based Conceptual Design;System of Systems;Systems Science;#Interactive	Workshop
Using Microsoft Teams for Real Time Technical Collaboration	13:00	14:00	Open/Working session	Meet, chat, call, and collaborate in one convenient place across INCOSE. Learn how to collaborate with groups of people in your working groups, task teams and project teams in INCOSE. Understand real time chat, multi-user simultaneous document editing, automatic version history, and in-document discussions. Microsoft Teams, part of the Microsoft 365 platform (formerly Office 365), is used by over 115 million people every day and we're using it across INCOSE. We'll introduce Teams and show you how to use it right away to collaborate during the IW, using your computer or mobile. A recap will also be shared in the following 30 minute Town-Hall session, titled the same.	Chris Hoffman, Barclay Brown, Molly Kovaka	Social Systems;INCOSE Collaboration Infrastructure;#Interactive	Workshop
We chose MBSE: What's next?	13:00	15:00	Open/Working session	Introduce MBSE pitfalls and explain how to avoid then in an interacting way featuring presentation of MagicGrid framework and four interactive group sessions. This type of workshop has been proven in annual systems engineering conferences as very successful one a few years back. Now with some modifications it can successfully go online. Please note that the time is indicated in CET (could not find a way to select timezone).	Aurelijus Morkevicius	MBSE Initiative;SE in Early Stage Research & Development;Systems Engineering Case Study;#Transformational	Workshop
An Update on the INCOSE SE Handbook Fifth Edition	14:00	15:00	Open/Working session	INCOSE is in the process of updating the SE Handbook to the Fifth Edition with a targeted release at IS2023. This session will give an update on the current plan, present the updated handbook outline, and provide the current status of Working Group and Subject Matter Expert inputs. The session will provide information on the future plans, including how INCOSE members can get engaged with handbook reviews. It will also include time for questions & answers amongst the INCOSE Community.Facilitator(s)Handbook Editorial Team - Dave Walden, Tom Shortell, Garry Roedler, Bernardo Delicado, Odile Mornas, Yip Yew Seng	Chris Hoffman, David Walden, Bernardo Delicado	INCOSE SEH v5;#Interactive	Workshop
Break	15:00	15:30	Open		FALSE		F&B
Town Hall: Systems Engineering Handbook version 5	15:30	16:00	Open		Bernardo Delicado, Dave Walden		Plenary
Town Hall: INCOSE Collaboration Tools (MS Teams, O365)	16:00	16:30	Open		Barclay Brown		Plenary
PLE WG Business Meeting	16:30	17:30	Open/Working session	PLE WG's leadership will handle a few administrative items	Drew Stovall, Rowland Darbin	Product Lines;#Analytic	Workshop
Sustainable Development Goal (SDG) Cluster Project Session	16:30	17:30	Open/Working session	Interested in sustainable development? Have a project idea or want to join up with others working on this topic? Come learn about and help develop the Sustainable Development Cluster Project in the Social Systems Working Group!	Erika Palmer	Social Systems;	Working Group
SysML v2 Update	16:30	17:30	Open/Working session		Sandy Friedenthal	#MBSE	Workshop
Model Based Knowledge Management	17:00	19:00		This session is exploring one of the central aspects of knowledge management. A small group consisting of Swami, Jean and Robert have through a WG project initiated work on a concept for how Knowledge Management can be executed in a model based fashion called Model Based Knowledge Management (MBKM). The concept spans from theoretical aspects to the physical implementation in tools and is constructed on scientific principles. The ultimate objective is to organize knowledge in model form, and link these knowledge models to system models. This session will be chaired by Robert starting with a presentation of the concept bridging into future work and discussions of improvements.	Robert Nillson	Knowledge Management & Ontologies;	Working Group
Model Portfolio Management Guide - INCOSE Adoption?	17:00	19:00	Open/Working session	20 minutes Welcome, introductions and logistics20 minutes Overview of the TIMLM 30 minutes Overview of the Aerospace MPM Guide document30 minutes Review of Candidate INCOSE Technical Procedure Plan20 minutes Next Steps	Albert Hoheb, Misak Zetilyan, John NAllon	Tools Integration & Model Lifecycle Management;	Working Group
Systems Engineering Heuristics and Systems Engineering Principles Bridging Team Report	17:00	19:00	Open/Working session	The Principles and Heuristics Bridging Team will report on the activities and approach in defining the relationships of the Systems Engineering Heuristics with the Systems Engineering Principles and System Sciences Principles.	Michael Watson, Dorothy Mckinney, Javier Calvo-Amodio	Systems Science;Systems Engineering Principles Action Team;#Transformational	Workshop
PLE WG Work session	17:30	19:00	Open/Working session	During this session, we will draft an updated Wikipedia article for Product Line Engineering. This will be a collaborative work session where authors will pull from primary sources and formulate a cohesive article that can be submitted to Wikipedia.	Drew Stovall, Rowland Darbin	Product Lines;#Analytic	Workshop
Critical Infrastructure Protection & Recovery	18:00	20:00	Open/Working session	Meeting goal is to 1) address CIPR Admin tasks & challenges 2) manage logistics of CIPR / ATI integration to a single working group & 3) plan program content and outreach strategies for 2021	John Juhasz	Anti-terrorism International;Architecture;Complex Systems;Critical Infrastructure Protection and Recovery;Infrastructure;Power & Energy Systems;Resilient Systems;Risk Management;Smart Cities Initiative;System of Systems;Systems Security Engineering;Telecommunications;#Application	Workshop
Enterprise Architecture Process and Guide for Using UAF	18:00	20:00	Open/Working session	The Unified Architecture Framework (UAF) from the OMG provides a Domain Metamodel and a Profile that enables modeling of an Enterprise Architecture. INCOSE is helping them create a EA Guide for UAF to help people in applying the EA modeling views and concepts provided by the UAF standard. The UAF modeling approach is built upon and use SysML modeling notation, but provides special concepts applicable to EA modeling efforts. This session will provide an overview of UAF and the EA approach, describe the intended contents of the EA Guide, and will solicit feedback on the EA modeling process contained therein, as well as review the outline of the Guide itself. Session Leaders: James Martin and Matthew Hause	Richard Martin, James Martin, Matthew Hause	Architecture;#Process	Workshop
Opening: Transformation Initiative Upate	18:00	18:20	Open		Troy Peterson	#MBSE	Workshop
Systems Thinking RoundTable (STRT)	18:00	19:00	Open/Working session	OUR FORMAT is a reflective practice during which each participant is given equal time to comment on a selected topic or trend impacting our discipline. We begin by listening to the suggested topics and short guidelines for five minutes. We then spend the remaining 50 minutes listening to, and offering an individual comment. The time is divided equally among all present (e.g., 27 people = 2 minutes each). Each day, a different topic will be suggested by a different volunteering facilitator in attendance. Folk wisdom and compelling research indicate that participants experience surprising benefits from this activity after just a few sessions. Experience with this format has resulted in the following theory: Just as we break the sound barrier when we travel faster than the speed of sound, we break the communication barrier when we hear 30 authentic viewpoints in 60 minutes. Used regularly, benefits accrue at compound interest.	Sue Gabriele	Systems Science;#Transformational	Workshop
Working Group Round Robin... (Select Working Group Overviews)	18:20	19:20	Open		FALSE	#MBSE	Workshop
NSWG/SocWG Joint Session	19:00	21:00	Open/Working session	1) Introductions2) Presentations on the theme: Conceptualizing and modeling resistance-to-change dynamics and sustainable adaptation in social-ecological-economic systems, with discussion on heuristics and ethics3) Joint projects	Randall Anway	Natural Systems;Social Systems;#Analytic	Workshop
Resilient Hospitals Systems Engineering Project	19:00	21:00	Open/Outreach	The goal of this meeting will be to:+ Describe the Resilient Hospitals project+ Discuss what we have accomplished to date+ Discuss what comes next+ Discuss technical and other issues we are facing.	Howard Lykins	Critical Infrastructure Protection and Recovery;Object-Oriented SE Method;	Working Group
DoD OSD DE Update	19:20	19:40	Open		Phil Zimmerman	#MBSE	Workshop
SERC/INCOSE DE Survey	19:40	20:00	Open		Tom McDermont	#MBSE	Workshop
Analyst MBSE Update	20:00	20:20	Open		Don Tolle CimData	#MBSE	Workshop
Enterprise Systems Working Group (ESWG) Interactive Workshop	20:00	22:00	Open/Working session	First-level project-planning for collaborations and other action-items from previous session	Kevin Nortrup, Tom McDermott	Enterprise Systems;	Working Group
MBX Challenge	20:20	20:40	Open		Russel Peak	#MBSE	Workshop
MBSSE Standard Update	20:40	21:00	Open		FALSE	#MBSE	Workshop
Fellows Selection Committee	21:00	23:00	Closed	The Fellows Selection Committee and Fellows meet to discuss nomination packages and vote on candidates for INCOSE Fellow Award	Gregory Parnell	Fellow Committee	Working Group
OPM ISO 19450 Update	21:00	21:20	Open		Dov Dori	#MBSE	Workshop
MBSE Tools Database Update	21:20	21:40	Open		John Nallon	#MBSE	Workshop
CubeSat Referene Model	22:00	22:20	Open		David Kaslow	#MBSE	Workshop
NAFEMS/INCOSE Systems Modeling and Simulation WG	22:20	22:40	Open		Peter Coleman	#MBSE	Workshop
Production & Logistics Challenge	22:40	23:00	Open		Tim Sprock	#MBSE	Workshop
OSLC	23:00	23:30	Open		Bill Chown	#MBSE	Workshop
MBSE Initiative / Transformation Wrap Up	23:30	23:59	Open		Troy Peterson, Mark Sampson	#MBSE	Workshop
Sunday							
MBSE Virtual Reception	00:00	01:00	Open		FALSE	#MBSE	Workshop
Systems Thinking RoundTable (STRT)	04:00	05:00	Open/Working session	OUR FORMAT is a reflective practice during which each participant is given equal time to comment on a selected topic or trend impacting our discipline. We begin by listening to the suggested topics and short guidelines for five minutes. We then spend the remaining 50 minutes listening to, and offering an individual comment. The time is divided equally among all present (e.g., 27 people = 2 minutes each). Each day, a different topic will be suggested by a different volunteering facilitator in attendance. Folk wisdom and compelling research indicate that participants experience surprising benefits from this activity after just a few sessions. Experience with this format has resulted in the following theory: Just as we break the sound barrier when we travel faster than the speed of sound, we break the communication barrier when we hear 30 authentic viewpoints in 60 minutes. Used regularly, benefits accrue at compound interest.	Sue Gabriele	Systems Science;#Transformational	Workshop
Break	10:00	10:30	Open		FALSE		F&B
Human Systems Integration Evolution in the Digital Society	11:00	15:00	Open/Working session	Goals: provide latest information and state of the art on HSI and create interactive discussions on contemporary HSI issues -- everyday we will have a summary and synthesis panel	Guy Andre Boy	Human Systems Integration;#Analytic	Workshop
Break	12:00	13:00	Open		FALSE		F&B
Applying the Systems Engineering Competency Assessment Guide	13:00	14:00	Open/Working session	This 60 minute session is a partner to the following Town Hall 30 minute overview, and intends to highlight portions of this upcoming INCOSE product by demonstrating how the guide would be used during this session.The Systems Engineering Competency Assessment Guide (ISECAG) is the companion guide to the INCOSE Systems Engineering Competency Framework (ISECF). The ISECAG provides elements for determining an individual's competence as demonstrated by assessing attainment of ISECF competencies. The Competency Working Group developed a Competency Assessment Guide that will allow organizations to map from the competencies into an ability to assess competency development and attainment of the competencies by individuals. This goal is being accomplished through a team of CWG members as volunteers filling out sections of the guide, subsequent peer review of the initial drafts by the CWG team, and later by additional SMEs. Many of the team were members who developed the INCOSE Systems Engineering Competency Framework.	Chris Hoffman, Lori Zipes, Cliff Whitcomb, Ian Presland	Competency;#Interactive	Workshop
Smart Cities - View Point integration	13:00	15:00	Open/Working session	The SCI developed model features the human at the center, rather than the technology. In this session, we will collaborate to review the SCI model and prepare a View Point integration that illustrates how the SCI model can work with other existing Smart Cities models that commonly focus on the technology. The session is intended to kick-off a supporting product to the SCI Definition that highlights to synchronicity and distinctions between the INCOSE model and those of other entities. Specific evaluation will include the Deloitte Smart Cities model.	Jennifer Russell, Marcel van de Ven	Smart Cities Initiative;	Working Group

Session	Start	End	Type	Description	Presenters	Tags	Category
A Preview of the Systems Engineering Vision 2035	14:00	15:00	Open/Working session	This session provides participants a preview of the SE Vision 2035 that will include a presentation followed by Q&A and recap during the Town Hall 30 min segment. The SE Vision is intended to inspire and guide the direction of systems engineering across the broad stakeholder community. The SE Vision 2035 is an update to the SE Vision 2025 that was issued in 2014. The vision is currently in progress with a planned review that begins following the International Workshop. The presentation will summarize the content of each of the 4 chapters which address the Global Context for Systems Engineering, the Current and Future State of Systems Engineering, and a chapter on Realizing the Vision. The presentation will also highlight how participants can provide their feedback as part of the upcoming review process.	Chris Hoffman, Sandy Friedenthal, Paul Schreinemakers, Garry Roedler, Heinz Stoewer	INCOSE SE Vision;#Interactive	Workshop
Town Hall: Applying the Competency Assessment Guide	15:00	15:30	Open		Lori Zipes, Cliff Whitcomb, Ian Presland		Plenary
Town Hall: Systems Engineering Vision 2035	15:30	16:00	Open		Sandy Friedenthal		Plenary
Working Group Market Place	16:00	17:00	Open		FALSE		Social Event
Break	17:00	17:30	Open		FALSE		F&B
Closing address	17:30	18:00	Open		FALSE		Plenary
INCOSE Café	18:00	20:00			FALSE		Misc
INCOSE Model-Based Capabilities Matrix - Evolution	18:00	20:00	Open/Working session	10 minutes Welcome, Agenda and Logistics15 mintues Matrix and User's Guide Overview, Peek at the candidate US Air Force Metrics Program30 minutes candidate best practices, lessons learned and pro tips45 minutes Working Group Real Time Comments on the Matrix and User's Guide - content changes, format changes20 minutes Recommended Actions Items	Albert Hoheb, Michael Russell	Model-Based Capabilities Matrix Challange Team;#Analytic	Workshop
Practical Knowledge Modelling Session	18:00	21:00		This session is chaired by Robert and technically supported by Bill where we explore the possibilities of the MBKM-concept set-up. This is a working session aiming at providing insight to the Knowledge Management area by hands on practise. To enable this work a special meeting order will be introduced initially enabling structured questions and comments.	Robert Nilsson	Knowledge Management & Ontologies;	Working Group
Social Systems WG Wrap-Up Session	18:00	19:00	Open/Working session	We would like to gather everyone together to hear what they learned from other WG sessions and discuss the outcomes of the SocWG sessions. This will include finalizing plans for 2021.	Erika Palmer	Social Systems;	Working Group
Systems Thinking RoundTable (STRT)	18:00	19:00	Open/Working session	OUR FORMAT is a reflective practice during which each participant is given equal time to comment on a selected topic or trend impacting our discipline. We begin by listening to the suggested topics and short guidelines for five minutes. We then spend the remaining 50 minutes listening to, and offering an individual comment. The time is divided equally among all present (e.g., 27 people = 2 minutes each). Each day, a different topic will be suggested by a different volunteering facilitator in attendance. Folk wisdom and compelling research indicate that participants experience surprising benefits from this activity after just a few sessions. Experience with this format has resulted in the following theory: Just as we break the sound barrier when we travel faster than the speed of sound, we break the communication barrier when we hear 30 authentic viewpoints in 60 minutes. Used regularly, benefits accrue at compound interest.	Sue Gabriele	Systems Science;#Transformational	Workshop
Lean Startup Method/Agile for Initial Project Planning Interactive Workshop	19:00	21:00	Open/Outreach session	This Interactive Workshop will provide attendees with knowledge and practice in using a facilitated hybrid approach for Initial Project Planning (IPP). The facilitated approach, borrowing best practices from the Lean Startup Method (LSM), as well as Agile Systems Engineering, Software Engineering, and Project Management, brings together project decision makers in one or more collaborative "IPP Meetup" sessions. The primary outcome of these IPP Meetup sessions is a set of consensus Project Focus Mechanisms including:— Project Title and Purpose Statements,— Project Vision (in the form of a Project Vision Board Extended (PVBE)),— Project Stakeholder Groups List (aka Personas List),— Example Stakeholder Group Details (aka Example Persona Templates),— Project Target Groups (i.e., Persona List and Details 'binned' into a smaller list of Common Target Groups), and— Initial Set of System-Level Capabilities.This interactive workshop will show attendees how any project (e.g., develop new or updated product or service, conduct feasibility study, make operational or strategic decisions, etc.) can use this hybrid "Meetup, Clean Up, and Post Up" IPP approach, to develop a consensus set of Project Focus Mechanisms, that the project can use to efficiently and effectively focus development throughout the project development life cycle.	Howard Lykins	Critical Infrastructure Protection and Recovery;Object-Oriented SE Method;#Process	Workshop
Systems Engineering Principles, Heuristics, and System Science Principles Coordination of Systems Engineering Handbook Sections	19:00	21:00	Open/Working session	The Systems Sciences Working Group, Systems Engineering Heuristics Team, and Systems Engineering Principles Action Team will discuss coordination of drafted sections for the Systems Engineering Handbook update. Discussion will include references between the sections and description of the relationship between the different Principles and Heuristics as part of the Systems Engineering Handbook update.	Michael Watson, Dorothy McKinney, Javier Calvo-Amodio	Systems Science;Systems Engineering Principles Action Team and Systems Engineering Heuristics Team;#Transformational	Workshop
Systems Thinking 101	19:00	21:00	Open/Working session	Broaden the knowledge in the understanding and application of systems thinking. This is applicable across working groups and members of INCOSE. The proposed workshop outline / agenda is as follows:Joining and Housekeeping Welcome and Introductions Motivation for Systems Thinking ("WHY") Breakout Session 1 - What is Systems Thinking Group Feedback Summary - first 3 volunteers Presentation on "WHAT IS" Systems Thinking Breakout Session 2 - How do we understand a System Group Feedback Summary - first 3 volunteers Presentation on "HOW does one Understand a System" Discussion & Q&A on the "WHY", "WHAT" and "HOW" Exercise - Apply ST - Identify System of Interest, Stakeholders/Boundaries Discussion & Q&A on Applying ST Closing	Jawahar Bhalla, Kerry Lunney	Complex Systems;Human Systems Integration;Knowledge Management & Ontologies;MBSE Initiative;Model-based Conceptual Design;System of Systems;Systems Science;#Interactive	Workshop
Fellows Committee Meeting	21:00	23:00	Closed	Fellows Committee business meeting	Gregory Parnell	Fellows Committee	Working Group
Monday							
INCOSE-NAFEMS Systems Modeling & Simulation Community Meeting	17:00	20:00	Open/Outreach session	Remind on INCOSE-NAFEMS collaboration + summary SMS WG activities from 2020 and plans for 2021 + mix of topical related presentations + opportunities for Q&A with audience.Further details to be provided in January.	Peter Coleman, Frank Popielas	INCOSE-NAFEMS Collaboration;MBSE Initiative;	Working Group
SOS Working Group Business Meeting	17:00	19:00	Open/Outreach session	Working meeting to share progress to-date on the Systems-of-Systems and Complexity projectThe project was initiated at IW 2020 between the SOS and Complexity working groups.The objective of the project is to investigate the application of the complexity taxonomy and approaches to address SOS complexity. with the intent of developing some practical approaches for SOS.This meeting will be followed by a Workshop on Tuesday 2nd February at 1700-1900 CET.	Alan Harding, Judith Dahmann	System of Systems;	Working Group
Standards Development Department	17:00	18:00	Open/Working session	Verify participation schedule and participants for 2021, discuss new opportunities and extent of commitments in subsequent years, review process for liaison interaction with SDO	Richard Martin, Ken Kepchar	Standards Development Department	Working Group
Tuesday							
SOS Working Group Business Meeting	17:00	19:00	Open/Working session	The aim of this workshop is to make progress on the joint project between SOSWG and Complex Systems WG that seeks to investigate the application of the complexity taxonomy and approaches to address SOS complexity. with the intent of developing some practical approaches for SOS	Alan Harding, Judith Dahmann	System of Systems;	Working Group
Wednesday							
SOS Working Group Business Meeting	17:00	19:00	Open/Working session	Meeting to address upcoming SOS contributions to SE Standards, the INCOSE SE Vision 2035 and the INCOSE SE Handbook 5th Edition.	Alan Harding, Judith Dahmann	System of Systems;	Working Group
Thursday							
SOS Working Group Business Meeting	17:00	18:00	Open/Working session	Session to review the results of SOSWG activities during IW 2021, and to plan activities at future events including IEEE SOSE 2021, IS2021, IEEE SYSCON.	Alan Harding, Judith Dahmann	System of Systems;	Working Group
Friday							