

IS2019 Schedule

Saturday at IS 2019

Start time	End time		Track 1 Grand Cypress Ballroom C	Track 2 Grand Cypress Ballroom GH	Track 3 Magnolia BC	Track 4 Palm AB	Track 5 Grand Cypress Ballroom I
08:00	09:30	Session A	A.1 / Getting Ready for Industry 4.0 and IoT with Model-Based Systems Engineering Dov Dori (Technion, Israel & MIT, USA)	A.2 / Correcting Misperceptions of Systems Engineering Practices Ronald Carson (Seattle Pacific University)	A.3 / Introduction to Systems Security Engineering Mark Winstead, Michael McEvilley, Daryl Hild (The MITRE Corporation)	A.4 / Why the SEMP is not Shelfware: How to write a SEMP to ensure it delivers value to all. Ian Presland (Charterhouse Systems Ltd.); Becky Reed (Reed Integration Inc.)	A.5 / Developing Verification Requirements to Assure Project Success Mark Powell (Attwater Consulting)
09:30	10:00	Break	Break				
10:00	12:00	Session B	A.1 / Getting Ready for Industry 4.0 and IoT with Model-Based Systems Engineering Dov Dori (Technion, Israel & MIT, USA)	A.2 / Correcting Misperceptions of Systems Engineering Practices Ronald Carson (Seattle Pacific University)	A.3 / Introduction to Systems Security Engineering Mark Winstead, Michael McEvilley, Daryl Hild (The MITRE Corporation)	A.4 / Why the SEMP is not Shelfware: How to write a SEMP to ensure it delivers value to all. Ian Presland (Charterhouse Systems Ltd.); Becky Reed (Reed Integration Inc.)	A.5 / Developing Verification Requirements to Assure Project Success Mark Powell (Attwater Consulting)
12:00	13:30	Lunch	Lunch				
13:30	15:00	Session C	A.1 / Getting Ready for Industry 4.0 and IoT with Model-Based Systems Engineering Dov Dori (Technion, Israel & MIT, USA)	C.2 / Systems Engineering MBSE implementation in your organization Mark Sampson (Siemens)	A.3 / Introduction to Systems Security Engineering Mark Winstead, Michael McEvilley, Daryl Hild (The MITRE Corporation)	C.4 / A Practical Guide to Determine the Readiness of Systems - Innovative Methods, Metrics and Tools for the Systems Engineer Donald York (Engility Corp.)	A.5 / Developing Verification Requirements to Assure Project Success Mark Powell (Attwater Consulting)
15:00	15:30	Break	Break				
15:30	17:00	Session D	A.1 / Getting Ready for Industry 4.0 and IoT with Model-Based Systems Engineering Dov Dori (Technion, Israel & MIT, USA)	C.2 / Systems Engineering MBSE implementation in your organization Mark Sampson (Siemens)	A.3 / Introduction to Systems Security Engineering Mark Winstead, Michael McEvilley, Daryl Hild (The MITRE Corporation)	C.4 / A Practical Guide to Determine the Readiness of Systems - Innovative Methods, Metrics and Tools for the Systems Engineer Donald York (Engility Corp.)	A.5 / Developing Verification Requirements to Assure Project Success Mark Powell (Attwater Consulting)
19:00	22:00		Corporate Advisory Board Dinner (By invitation only)				

Sunday at IS 2019

Start time	End time		Track 1 Palm AB	Track 2 Palm DE	Track 3 Grand Cypress Ballroom GH	Track 4 Magnolia BC	Track 5 Grand Cypress Ballroom I
08:00	09:30	Session E	E.1 / Back to Basics: Fundamentals for Systems Engineering Success David Long, Zane Scott (Vitech Corporation)	E.2 / Master your Product Lines and yield greater benefits through an integrated Model-Based Product Line Systems Engineering approach Hugo Guillermo Chalé Gongora, Stephane Bonnet, Juan Navas (Thales)	E.3 / Quantitative Risk Assessment Mark Powell (Attwater Consulting)	E.4 / The power of influence - how to lead without authority Jennifer Nash Phd (Nash Consulting & Associates)	E.5 / Overview of the INCOSE SE Handbook Version 4.0 John Clark (Old Dominion University)
09:30	10:00	Break	Break				
10:00	12:00	Session F	E.1 / Back to Basics: Fundamentals for Systems Engineering Success David Long, Zane Scott (Vitech Corporation)	E.2 / Master your Product Lines and yield greater benefits through an integrated Model-Based Product Line Systems Engineering approach Hugo Guillermo Chalé Gongora, Stephane Bonnet, Juan Navas (Thales)	E.3 / Quantitative Risk Assessment Mark Powell (Attwater Consulting)	E.4 / The power of influence - how to lead without authority Jennifer Nash Phd (Nash Consulting & Associates)	E.5 / Overview of the INCOSE SE Handbook Version 4.0 John Clark (Old Dominion University)
12:00	13:30	Lunch	Lunch				
13:30	15:00	Session G	G.1 / Inserting Systems Engineering into a Resistant Organization David Walden (Sysnovation, LLC)	E.2 / Master your Product Lines and yield greater benefits through an integrated Model-Based Product Line Systems Engineering approach Hugo Guillermo Chalé Gongora, Stephane Bonnet, Juan Navas (Thales)	G.3 / Tactical Strategies for Overcoming Systems Engineering Dysfunction Heidi Davidz (Aerojet Rocketdyne); Eileen Arnold (ConsideredThoughtfully.com); Dale Thomas (University of Alabama in Huntsville)	E.4 / The power of influence - how to lead without authority Jennifer Nash Phd (Nash Consulting & Associates)	E.5 / Overview of the INCOSE SE Handbook Version 4.0 John Clark (Old Dominion University)
15:00	15:30	Break	Break				
15:30	17:00	Session H	G.1 / Inserting Systems Engineering into a Resistant Organization David Walden (Sysnovation, LLC)	E.2 / Master your Product Lines and yield greater benefits through an integrated Model-Based Product Line Systems Engineering approach Hugo Guillermo Chalé Gongora, Stephane Bonnet, Juan Navas (Thales)	G.3 / Tactical Strategies for Overcoming Systems Engineering Dysfunction Heidi Davidz (Aerojet Rocketdyne); Eileen Arnold (ConsideredThoughtfully.com); Dale Thomas (University of Alabama in Huntsville)	E.4 / The power of influence - how to lead without authority Jennifer Nash Phd (Nash Consulting & Associates)	E.5 / Overview of the INCOSE SE Handbook Version 4.0 John Clark (Old Dominion University)

IS2019 Schedule

Monday at IS 2019

Disclaimer: Technical program as of July 15, 2019 - Subject to change.

Page 2 of 5

IS2019 Schedule

Tuesday at IS 2019										
Start time	End time	Activity	Track 1 Grand Cypress Ballroom DEF	Track 2 Grand Cypress Ballroom GH	Track 3 Grand Cypress Ballroom I	Track 4 Grand Cypress Ballroom A	Track 5 Grand Cypress Ballroom B	Track 6 Grand Cypress Ballroom C	Track 8 Regency 6	Track 9 Regency 5
08:00	09:30	Tuesday Plenary	P2 / Biomimicry - A Bioinspired approach to Systems Thinking - Prashant Dhawan (Co-Founder, Biomimicry India)							
09:30	10:00	Break	Break & Select Poster will be Presented - See Posters for Presentation Day (Exhibit Hall)							
10:00	12:10	Session 4	Requirements 1	Defense	System Thinking 1	Verification/Validation 1				Sponsors/Exhibitors Track
			4.1.1 / Optimizing the Requirement Engineering Process: A Case Study of I/O List Management in Integrated Automation Systems Yangyang Zhao (University of Oslo); Snorre Klocke (University of Southeast Norway)	4.2.1 / Systems Engineering--Software Engineering Interface for Cyber-Physical Systems Sarah Sheard, Mike Phillips (CMU Software Engineering Institute); Michael E. Paillard (Johns Hopkins University Whiting School of Engineering)	4.3.1 / Professional Competencies - The Soft Skills to give Systems Engineers a Hard Edge Richard Beasley (Rolls-Royce); Donald Gelosh (Worcester Polytechnic Institute); Andrew Pickard (Rolls-Royce)	4.4.1 / Solution Validation and Customer Needs Understanding in the Early Phases of Product Platform Development; A Case Study in Digital Manufacturing Machines Gerrit Muller (University of South-Eastern Norway); Simon Kvanvik, Lidvar Budal (Esko)	4.5 / How Essential are Cognitive Flexibility and Cognitive Diversity to Developing Effective Worldwide Sustainable System Solutions? Bill Parkins (SESA, Rockwell Collins (RET'D)); Lisa Hoverman (lisa@hsmgroup.biz); Hazel Woodcock (IBM); Alice Squires (Washington State University); Emmet Eckman Iii (Northrop Grumman); Eric Specking (University of Arkansas)	4.6 / Set-Based Design Gregory Parnell (University of Arkansas); Dennis Buedo (Innovative Decisions Inc.); William Miller (Steven Institute of Technology); Robert Bordley (University of Michigan); Ed Pohl (University of Arkansas); Simon Goerger (Engineering Research and Development Center)	4.8.1 / Syndeia: Building the Digital Thread Dirk Zwemer (InterCax)	4.9.1 / Education that fits - Systems Engineering Sylvia Skoubi, Cihan H. Dagli, PhD (Missouri S&T)
			4.1.2 / Using Set-Based Design to Inform System Requirements and Evaluate Design Decisions Eric Specking (University of Arkansas); Gregory Parnell (University of Arkansas); Simon Goerger (Engineering Research and Development Center); Mathew Cilli (US Army ARDEC); Ed Pohl (University of Arkansas)	4.2.2 / Applying Feature-Based Systems and Software Product Line Engineering in Unclassified and Classified Environments Jim Teaff, Bobbi Young (Raytheon); Paul Clements (BigLever Software, Inc.)	4.3.2 / A Subjective Toolbox for Sociotechnical Systems Kevin Devaney (SRC, Inc. / INCOSE Finger Lakes Chapter)	4.4.2 / A Concept for Set-based Design of Verification Strategies Peng Xu, Alejandro Salado (Virginia Tech)	4.8.2 / Proposed Master of Science in Systems Engineering Leadership Donald Gelosh (Worcester Polytechnic Institute)	4.9.2 / ClearObject		
			4.1.3 / Information-based Requirement Development & Management Mike Ryan (The University of New South Wales); Juan Llorens (Universidad Carlos III de Madrid); Louis Wheatcraft (Requirements Experts/Seilevel); Jeremy Dick (SyntheSys System Engineers Ltd.)	4.2.3 / Inclusion of human values in the specification of systems: bridging design and systems engineering Kristin Falk, Marianne Kjørstad (University of South-Eastern Norway); José Pinto (University Of Lapland)	4.3.3 / The Application of Systemic Thinking to Understanding the Interoperability Challenges of Integrated Live Virtual & Constructive Training Jawahar Bhalla (CAE Australia)	4.4.3 / Boosting Reuse and Quality in the engineering process: revamping Product Lines Jose María Alvarez Rodríguez (Carlos III University of Madrid); Elena Gallego (The Reuse Company)	4.8.3 / Advancing MBSE for Government Applications and Facilitating Collaboration with Industry and Academia Ryan Noguchi, Marilee Wheaton (The Aerospace Corporation)			
12:10	13:30	Lunch	Lunch & 12:30-13:30 Select Poster will be Presented - See Posters for Presentation Day (Exhibit Hall)							
Requirements 2	Biomed/Healthcare/Social Services 1	System Thinking 2	Verification/Validation 2	Complexity 1			Sponsors/Exhibitors Track			
5.1.1 / Addressing Uncertain Requirements Robert Bordley (University of Michigan); Jeff Keisler (University of Massachusetts); Tom Logan (University of Michigan)	5.2.1 / A Systems Approach to Technology Development Mike Celentano (Eli Lilly & Co)	5.3.1 / An SSM-TRIZ Methodology for Business Problem Structuring Ibukun Phillips, C. Robert Kenley (Purdue University)	5.4.1 / Applying Model Based Systems Engineering to Reduce Weapon System Development Cycle Time Mary Compton, Marissa Conroy, Arno Granados, Evan Richardson (Sandia National Laboratories)	5.5.1 / Famous Failures Revisited: A Focus on System Integration James Armstrong (Stevens Institute of Technology)			5.9.1 / Integrating MBSE and ISO 26262 Functional Safety Analysis Stephane Bonnet (Capella)			
5.1.2 / Requirements Efficiency: Questionnaire Results Celeste Drewien, Raymond Wolfgang, Cheryl Bolstad (Sandia National Labs)	5.2.2 / Using the Model-Based System Architecture Process (MBSAP) for Utilization Management in Outpatient Imaging Jill Speece (Colorado State University)	5.3.2 / Systems engineering and complex systems governance - Lessons for better integration Charles Keating (Old Dominion University); Joseph Bradley (Leading Change, LLC); Richard Hodge (DrRichardHodge.com); Stephen Craig (Stephen Craig Consulting)	5.4.2 / The Future of Assurance and Certification of Cyber-Physical Systems exists today: the AMASS platform. Jose María Alvarez Rodríguez, Jose Luis de la Vara (Carlos III University of Madrid); Luis Alonso (The Reuse Company)	5.5.2 / Appreciative Methods Applied to the Assessment of Complex Systems John MacCarthy (University of Maryland); Michael Watson (NASA); Dorothy McKinney (Considered Thoughtfully, Inc.); Randall Anway (New Tapestry, LLC); Larri Ann Rosser (Raytheon)			5.9.2 / Lifecycle Engineering for AI Tim Walden			
14:55	15:30	Break	Break & Select Poster will be Presented - See Posters for Presentation Day (Exhibit Hall)							
15:30	16:55	Session 6	Acquisition	Human-Systems Integration	System Thinking 3	Verification/Validation 3	Complexity 2	MBSE Lightning Round		Sponsors/Exhibitors Track
			6.1.1 / Doing Things Better, Doing Things Differently, Doing Different Things Ian Gibson (Atkins)	6.2.1 / A Systems Engineering Approach for Cancer Control Guru Madhavan, Francis Amankwah (National); William Rouse (Stevens Institute of Technology); Michael Johns (Emory University School of Medicine and School of Public Health)	6.3.1 / Manufacturer to Industry Partner: A review of the Inauguration of Systems Engineering within an Organization Julianne Alexander (Great Plains Chapter)	6.4.1 / Eliciting Human Values by Applying Design Thinking Techniques in Systems Engineering Nina Marie Sjøkvist (Semcon Devotek AS); Marianne Kjørstad (University of South-Eastern Norway)	6.5.1 / Systems Engineering: Transforming Digital Transformation Troy Peterson (SSI)	6.6.1 / MBSE Lightning Round - Introduction Mark Sampson, Troy A. Peterson	6.8.1 / Increase the supply chain quality through a knowledge-based approach Elena Gallego, Christer Fröling, José Fuentes (The REUSE Company)	
			6.1.2 / Systems Engineering on Legacy Systems Paul White (KIHOMAC)	6.2.2 / The Systems Engineering Advisor - Exploring Augmented Intelligence for SE Tom McDermott (Stevens Institute of Technology); Thomas Shortell, John Artus (Lockheed Martin)	6.3.2 / MBSE 2.0- The Next Steps for MBSE Zane Scott, David Long (Vitech Corporation)	6.4.2 / A practical study on how proactive quality approach can improve system development process to ensure system-effectiveness and -performance Haokar Aziz, Rolf Qvenhild, Kristin Falk (University College of Southeast Norway)	6.5.2 / Projects as Interventions in Infrastructure Systems-of-Systems Jennifer Whyte (Imperial College London); John Fitzgerald (Newcastle University); Martin Mayfield, Dan Coca (The University of Sheffield); Ken Pierce (Newcastle University); Nilay Shah (Imperial College London)	6.6.3 / Using the Viable System Model to Focus on the Human Aspects of Problems. Bob Kenley (Purdue's School of Industrial Engineering)	6.8.2 / The role of AI and Simulation in Model Based Systems Engineering when implementing a Digital Twin Graham Bleakley (IBM)	6.9.2 / UConn UTC Graduate Education Programs in Advanced Systems Engineering Amy Thompson, George Bollas (University of Connecticut UTC Institute for Advanced Systems Engineering)
17:00	18:00		The Exhibitors' Reception (Exhibit Hall)							
18:00	19:00		Certification Reception (ASEP, CSEP, ESEP only)							

IS2019 Schedule

08:00	09:30	Wednesday Plenary	P3 / To the Stars. The Sky Is No Longer the Limit - Capt. Winston Scott (Director, Environmental, Tectonics Corporation)							
09:30	10:00	Break	Break & Select Poster will be Presented - See Posters for Presentation Day (Exhibit Hall)							
10:00	12:10	Session 7	Machine Learning/Artificial Intelligence 1	Enterprise SE	System Science	Academia 2				Sponsors/Exhibitors Track
			7.1.1 / Implementing Augmented Intelligence In Systems Engineering Mark Petrotta, Troy Peterson (SSI)	7.2.1 / 12 principles for SE leaders Duncan Kemp (Ministry of Defence); Meaghan Oneil (INCOSE)		7.4.1 / Emerging Education Challenges for Resilient Cyber Physical Systems Tom McDermott (Stevens Institute of Technology)	7.5 / Application of Systems Engineering in Submarine Programs Quoc Do (Frazer Nash Consultancy (Australia)); Andrew Smith (Future Submarine Program, Department of Defence); Terje Fossnes (Norwegian Navy); Olivier Dessouze (Naval Group (France)); Joseph Bradley (Patrona Corp.)	7.6 / Implementing Systems Engineering in Early Stage Research & Development Projects Gina Guillame-Joseph (MITRE Corp.); Heidi Hahn (Los Alamos National Laboratory); Ann Hodges (Sandia National Laboratories); Mitchell Kerman (Idaho National Laboratory); Nick Lombardo (Pacific Northwest National Laboratory)	7.8.1 / MBSE 2.0: How Concurrent Systems Engineering Can Help Your Organization Mark Malinoski (Vitech)	7.9.1 / Bridging the Gap: Enabling MBSE Through the Integration of System and Analysis Models Scott Ragon, Dave Mastorocco (Phoenix Integration)
			7.1.2 / An Approach for Formal Verification of Machine Learning based Complex Systems Ramakrishnan Raman, Yogananda Jeppu (Honeywell Technology Solutions)	7.2.2 / The State of Systems Engineering Technical Practice versus Discipline: A Survey of INCOSE Chapter Attendees in North America Charles Wasson (Wasson Strategies, LLC)	7.3.2 / Systems Literacy for 21st Century Systems Engineering Peter Tuddenham (International Society for the Systems Sciences)	7.4.2 / Raising the Bar on SE: Lessons Learned Improving the Practice at a Navy Research Center Lori Zipes (US)			7.8.2 / How Systems Engineering Could Have Prevented the Aral Sea Human Disaster Robert Halligan (Project Performance International)	7.9.2 / An open platform approach to Systems Lifecycle Management Pawel Chadzynski (ARAS Corp.)
			7.1.3 / Challenges and opportunities in the integration of the Systems Engineering process and the AI/ML Lifecycle Jose María Alvarez Rodríguez (Carlos III University of Madrid); Roy Mendieta (The Reuse Company); Valentín Moreno, Juan Llorens (Carlos III University of Madrid)	7.2.3 / Can We Use Wisdom-of-the-Crowd to Assess Risk of Systems Engineering Failures? Georgios Georgalis, Karen Marais (Purdue University)	7.3.3 / Systems Engineering Principles Chuck Keating (Old Dominion University); Michael Watson (NASA); David Rousseau (Centre for Systems Philosophy); Bryan Mesmer (University of Alabama in Huntsville); Garry Roedler (Lockheed Martin); William Miller (Stevens Institute of Technology); Javier Calvo-Amadio (Oregon State University)	7.4.3 / Evolution of the Helix Project: From Investigating the Effectiveness of Individual Systems Engineers to Systems Engineering Organizations Suchita Kothari, Shikha Soneji, Jose Ramirez-Marquez, Araceli Zavala, Nicole Hutchison, Hoong Yan See Tao, Pamela Burke, Sergio Luna (Stevens Institute of Technology)				
12:10	13:30	Lunch	Lunch & 12:30-13:30 Select Poster will be Presented - See Posters for Presentation Day (Exhibit Hall)							
13:30	14:55	Session 8	Machine Learning/Artificial Intelligence 2	Sys Arch/Design Definition 1	Model Based Systems 1	Teaching and Training		Business and Mission Analysis		Sponsors/Exhibitors Track
			8.1.1 / The Dawn of Intelligent Systems Barclay Brown (Raytheon)	8.2.1 / Mastering the impacts of modes and states on the system: model-based method and tool perspectives Stephane Bonnet, Jean-Luc Voirin (THALES)	8.3.1 / A Roadmap for Advancing the State of the Practice of Model Based Systems Engineering for Government Acquisition Ryan Noguchi (The Aerospace Corporation)	8.4.1 / Experience from a Program for Accelerating the Creation of T-shaped Technical Leaders Erik Herzog (SAAB AB); Linda Cederberg, Johanna Axehill (Saab AB)	8.5 / Actual and Potential Impacts of Cyberterrorism Attacks on Major National Strategic Systems and the Use of Systems Engineering to Mitigate These Impacts William Mackey (Systems Engineering Solutions); Stephen Sutton, Bruce Shelton, Anthony Gigioli, Kenneth Kepchar, Gang Qu (INCOSE)	8.6.1 / Benefit Study on Digital Transformation for Integrated Project Planning and Control, Systems Engineering, and Safety and Mission Assurance Processes Phojanamongkolkij, Moreland (NASA)	8.8.1 / New Frontiers in Model Visualization Liana Kiff (Tom Sawyer Software)	8.9.1 / Master of Science in Systems Engineering Daniel Georgiadis, Changchun Zeng (FAMU-FSU College of Engineering)
			8.1.2 / Artificial Intelligence (AI) and Requirements Inspection and Evaluation Amar Zabarah, Ed Spriggs (Logapps LLC)	8.2.2 / Applying Mission-Based Adaptability to Discipline Designs Haifeng Zhu (United Technologies)	8.3.2 / Frenemies: OPM and SysML Together in an MBSE Model Matthew Hause (PTC); Robert Day (John Deere)	8.4.2 / INCOSE Handbook V4 to CMMI Development V2.0 mapping Oscar Mondragon, Rene Jasso (University of Texas at El Paso)		8.6.2 / Affordable Rocks (and Batteries): A lighthearted Dialogue About Value Mike Yokell (Lockheed Martin)	8.8.2 / SE Scholar	8.9.2 / SE Metamodel and Ontology Chris Schreiber
14:55	15:30	Break	Break & Select Poster will be Presented - See Posters for Presentation Day (Exhibit Hall)							
15:30	16:55	Session 9		Machine Learning/Artificial Intelligence 2	Model Based Systems 2	Teaching and Training	System Dynamics	Business and Mission Analysis		Sponsors/Exhibitors Track
				9.2.1 / Innovation in the Spirit of Design Thinking Dennis Buede, Robert Liebe, Jared Beekman (Innovative Decisions, Inc.)	9.3.1 / Recommended Best Practices based on MBSE Pilot Projects Ryan Noguchi (The Aerospace Corporation)	9.4.1 / Why a Systems Engineering Competency Framework is not enough. Enablers for successful organisational framework roll-out. Ian Presland (Charterhouse Systems Limited)	9.5.1 / A strategic asset planning decision analysis: An integrated system dynamics and multi-criteria decision-making method Sondoss Elsawah, Michael Ryan, Darius Danesh (UNSW)	9.6.1 / The Enduring Path to System Success: Investment in Early-phase Quality Systems Engineering Stephen Cook (Shoal Engineering and the University of Adelaide); Shaun Wilson (Shoal Engineering)	9.8.1 / Social system engineering supported by Nomadic mindset Jargalsaikhan Dugar (TUS Solution LLC)	9.9.1 / Feature-Based Product Line Engineering for the Enterprise Drew Stovall (BigLever Software)
				9.2.2 / Machine Learning for Project Management Functions Phojanamongkolkij, Moreland, Price, Vangundy (NASA)	9.3.2 / A Model-Based V&V Test Strategy Based on Emerging System Modeling Techniques Gan Wang (BAE Systems Intelligence & Security); Saulius Pavalkis (No Magic, Inc.)	9.4.2 / How Model-Based Systems Engineering practices support the effective implementation of a Product Line Engineering approach Stephane Bonnet, Juan Navas (Thales)	9.5.2 / A System Dynamics Model for Systems Security Engineering Analysis of Internet Service Provider Customer Modem Cyber Defense David Eason (Eason Consulting, LLC); Don Gelosh (Worcester Polytechnic Institute)	9.6.2 / Speaking in Tongues: The Systems Engineering Challenge Zane Scott (Vitech Corporation)		
17:00	18:00		Working Group Sessions							
20:00	22:00		INCOSE Island Night (ticket required)							

IS2019 Schedule

08:00	09:30	Session 10	System Architecture	Sys Arch/Design Definition 3	Autonomous 1	Aerospace	Information Technology		
			10.1.1 / Towards a model-based approach to Systems and Cybersecurity co-engineering	10.2.1 / Evaluation of COTS Hardware Assemblies for use in Risk Averse, Cost Constrained Space-based Systems	10.3.1 / System Theoretic Process Analysis for Layers of System Safety	10.4.1 / A Definition Abstraction and Implementation (DAI) Process for System-of-Systems Engineering	10.5.1 / Smart system assets development: Use your knowledge!		
			Stephane Bonnet, Jean-Luc Voirin, Juan Navas, Stephane Paul (Thales)	Tami Katz (Sierra Nevada Corporation)	Rashmi Hegde, Sarra Yako, Kyle Post, Sandro Nuesch (Ford Motor Company)	Ali Raz, Daniel Delaurentis (Purdue University)	Elena Gallego (The REUSE Company); Thomas Zoller (AES Aerospace Embedded Solutions)		
09:30	10:00	Break	Break & Select Poster will be Presented - See Posters for Presentation Day (Exhibit Hall)						
10:00	12:10	Session 11	Architecture	Sys Arch/Design Definition 4	Artificial Intelligence and Autonomy - Trends and Potential Impact on SE	Measurements and Metrics	Information Technology	Systems Engineering Transformation and the Future of Systems Engineering: Digital Engineering's opportunities and challenges	
			11.1.1 / Alternatives for Managing Atmospheric Warming	11.2.1 / London Underground Deep Tube Upgrade Programme: System Function Definition Model Case Study	11.3 / AI in Systems Engineering Thomas Shortell, John Artus (Lockheed Martin); Tom McDermott (Stevens Institute)	11.4.1 / The Good, The Bad and The Ugly Andrew Nolan (Rolls-Royce plc); Jennifer Russell (Garver); Judy Nolan, Timothy Puritt (Rolls-Royce)	11.6 / FuSE, SE Transformation, and Digital Engineering Bill Miller (Stevens Institute of Technology); Troy Peterson (System Xi); Kevin Robinson (Shoal Group); Heinz Stoewer (Space Associates); Monica Nogueira (SAE International)		
			Ronald Carson (Seattle Pacific University)	Luke Fischer, Nathan Everett (WSP in the UK); Michael Coultharde-Steer (London Underground)		11.4.2 / Elevating the meaning of data and operations within the development lifecycle through an interoperable toolchain Jose María Alvarez Rodríguez (Carlos III University of Madrid); Roy Mendieta (The REUSE Company); Juan Llorens (Carlos III University of Madrid)			
			11.1.2 / Applying and analyzing A3 Architecture Overviews in a complex and dynamic engineering environment	11.2.2 / An A3AOs Method of Software Tools Integration in the Complex System Development		11.4.3 / Exploring the Test and Evaluation Space using Model Based Conceptual Design (MBCD) Techniques David Flanigan (The Johns Hopkins University Applied Physics Laboratory); Kevin Robinson (Shoal Engineering)			
			Gerrit Muller (University of South-Eastern Norway); Wilco Pesselse, Theo Hofman (Eindhoven University of Technology); Martin Simons (Daimler)	Marius Johanssen (University of Southeast Norway); Yangyang Zhao (University of Oslo)		11.5.3 / Brownfield Systems Development: Moving from the Vee Model to the N Model for Legacy Systems David Walden (Sysnovation, LLC)			
12:10	13:30	Lunch	Lunch & 12:30-13:30 Select Poster will be Presented - See Posters for Presentation Day (Exhibit Hall)						
13:30	15:30	Closing Plenary	P4 / The Underway Global Unmanned Systems and Robotics Revolution - Grant Begley (CEO, Rocket Crafters)						
15:30	16:30		Networking Reception						