IS2020 Schedule

Monday at IS 2020

Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time		Track 1	Track 2	Track 3
South Africa and Europe		UK		US East Coast		US West Coast		India		China Hongkong		Korea and Japan		Australia Sydney			Needs and Requirements Definition I	Technical Leadership I	Verification/Validation
																	Richard Beasley, Duncan Kemp	Heather Feli, Benjamin Mogridge	Paul Schreinemakers, David Ward
10:00	10:40	09:00	09:40	04:00	04:40	01:00	01:40	13:30	14:10	16:00	16:40	17:00	17:40	18:00	18:40		Paper#40: 1.1.1 / Towards Systemic Handling of Requirements in the Oil and Gas Industry – a Case Study Siv Engen, Kristin Falk (University of South-eastern Norway); Kirsten Helle (TechnipFMC)	Panel#2: 1.2.1 / Everything you Wanted to Know about Technical Leadership but were Afraid to Ask Moderator:Heather Feli ; Panelists: Kerry Lunney (Thales Australia); Stueti Gupta (BlueKei Solutions); Courtney Wright (V1 Decisions, LLC);	Paper#75: 1.3.1 / Hatley-Pirbhai Control Flow Diagram with SysML for Early Validation Habibi Husain Arifin (Dassault Systèmes); Yu Dong (PATAC); Ho Kit Robert Ong (Dassault Systèmes); Yaoying Gu (PATAC); Nasis Chimplee, Wu Daphne (Dassault Systèmes)
10:45	11:25	09:45	10:25	04:45	05:25	01:45	02:25	14:15	14:55	16:45	17:25	17:45	18:25	18:45	19:25	**Session 1**	Paper#65: 1.1.2 / (MBSE)2: Using MBSE to Architect and Implement the MBSE System James Martin, Ryan Noguchi, Marilee Wheaton (Aerospace Corporation)		Paper#38: 1.3.2 / Employing Model Based Conceptual Design to Identify Test Range Resources Required to Validate the Delivered Solution David Flanigan (The Johns Hopkins University Applied Physics Laboratory); Kevin Robinson (Shoal Engineering)
11:30	12:10	10:30	11:10	05:30	06:10	02:30	03:10	15:00	15:40	17:30	18:10	18:30	19:10	19:30	20:10		Paper#113: 1.1.3 / Establishing a Reference Model for Requirements Elicitation Behavior Leon Pretorius, Naudé Scribante (Department of Engineering and Technology Management, University of Pretoria)	Presentation#55: 1.2.3 / How much Systems Engineering roles are needed in a project to create value? Sven-Olaf Schulze, Christoph Nüse, Sven Hering (UNITY AG)	Paper#2: 1.3.3 / Applying Systems Thinking to Frame and Explore a Test System for Product Verification; a Case Study in Large Defence Projects Rune Andre Haugen (Kongsberg Defence and Aerospace AS); Mo Mansouri (University of South-eastern Norway)
12:10	12:30	11:10	11:30	06:10	06:30	03:10	03:30	15:40	16:00	18:10	18:30	19:10	19:30	20:10	20:30	**Break**			
South Africa and Europe		UK		US East Coast		US West Coast		India		China Hongkong		Korea and Japan		Australia Sydney			Systems Design/Artificial Intelligence	Processes	Systems Architecture
																	Barclay Brown, Courtney Wright	Daniel Spencer, Jen Narkevicius	Tony Williams, David Long
12:30	13:10	11:30	12:10	06:30	07:10	03:30	04:10	16:00	16:40	18:30	19:10	19:30	20:10	20:30	21:10		Panel#6: 2.1.1 / Humans with AI: It's not like it is in the movies! Moderator:Barclay Brown (Raytheon Technologies); Panelists: Christopher Eck (Raytheon Technologies); Moha Chami (Chami Consulting);	Paper#70: 2.2.1 / A sustainable software testing process for the Square Kilometre Array project Giorgio Brajnik (Interaction Design Solutions & University of Udine); Marco Bartolini, Nicholas Rees (SKA Organization)	Paper#77: 2.3.1 / Bridging the Gap Between Architects, Engineers and Other Stakeholders in Complex and Multidisciplinary Systems – A Holistic, Inclusive and Interactive Design Approach Joy Au, Ranjit Ravindranath (Airbus Operations Ltd.)
13:15	13:55	12:15	12:55	07:15	07:55	04:15	04:55	16:45	17:25	19:15	19:55	20:15	20:55	21:15	21:55	**Session 2**		Paper#97: 2.2.2 / A generic Systems Engineering process tailoring methodology, based on lessons from MeerKAT Thomas Kusel (SARAO)	Paper#35: 2.3.2 / Reverse architecting conventional footwear. Towards an A3 Architecture Overview that supports development of alternative footwear architectures. Winnie Dankers, Gerrit Maarten Bonnema (University of Twente)
14:00	14:40	13:00	13:40	08:00	08:40	05:00	05:40	17:30	18:10	20:00	20:40	21:00	21:40	22:00	22:40		Paper#130: 2.1.3 / Addressing Challenges of the Circular Economy using Model-Based Co-Creation and Systems Design Jan Hendrik Roodt (Stone To Stars Ltd); Clemens Dempers (Polar Analytics Oy)	Paper#106: 2.2.3 / Towards a Common Systems Engineering Methodology to Cover a Complete System Development Process Aurelijus Morkevicius (Dassault Systemes & Kaunas University of Technology); Aiste Aleksandraviciene, Andrius Armonas, Gauthier Fanmuy (Dassault Systemes)	
14:40	15:00	13:40	14:00	08:40	09:00	05:40	06:00	18:10	18:30	20:40	21:00	21:40	22:00	22:40	23:00	**Break**			
15:00	**16:00**	**14:00**	**15:00**	**09:00**	**10:00**	**06:00**	**07:00**	**18:30**	**19:30**	**21:00**	**22:00**	**22:00**	**23:00**	**23:00**	**00:00**	**Keynote**	**Keynote - Plenary#K1: K1 / System engineering and society - Bernie Fanaroff (Former Director Square Kilometer Array (SKA) South Africa)**		
16:00	16:20	15:00	15:20	10:00	10:20	07:00	07:20	19:30	19:50	22:00	22:20	23:00	23:20	00:00	00:20	**Break**			
South Africa and Europe		UK		US East Coast		US West Coast		India		China Hongkong		Korea and Japan		Australia Sydney			President's Invited Content I	Systems Engineering I	Risk Management
																	Barclay Brown, Bill Chown	Rick Dove, Courtney Wright	
16:20	17:00	15:20	16:00	10:20	11:00	07:20	08:00	19:50	20:30	22:20	23:00	23:20	00:00	00:20	01:00		Invited Content#PIC4: 3.1.1 / Exploring Real AI: A Systems Engineering Approach Moderator:Barclay Brown ; Panelists: Tom McDermott ; Peter Beling ;	Presentation#60: 3.2.1 / An introduction to Systems Safety Duncan Kemp (Ministry of Defence); Meaghan Oneil (INCOSE)	Paper#87: 3.3.1 / Managing Integration and Verification Risks of the SKA Radio Telescope Richard Lord, Donald Gammon (SARAO)
17:05	17:45	16:05	16:45	11:05	11:45	08:05	08:45	20:35	21:15	23:05	23:45	00:05	00:45	01:05	01:45	**Session 3**		Presentation#10: 3.2.2 / Schema and Metamodels and Ontologies, Oh My! David Long (Vitech Corporation)	Paper#115: 3.3.2 / Risk and Opportunity Management for Project Selection in the Road Construction Industry Elisabet Syverud, Martha Stisen (University of South-Eastern Norway)
17:50	18:30	16:50	17:30	11:50	12:30	08:50	09:30	21:20	22:00	23:50	00:30	00:50	01:30	01:50	02:30			Paper#12: 3.2.3 / Toward Architecting the Future of System Security Keith Willett (United States Department of Defense)	Paper#11: 3.3.3 / Creating and Applying Total Cost Model: A Case Study at Maritime Company for Last Time Buy Estimation Satyanarayana Kokkula, Gerrit Muller (University of South-Eastern Norway); Lasse Andre Sletaker, Arild Gonsholt (Kongsberg Maritime A/S)

Pre-recorded session
Live session

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IS2020 Schedule

Tuesday at IS 2020

Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Activity	Track 1	Track 2	Track 3
South Africa and Europe		UK		US East Coast		US West Coast		India		China Hongkong		Korea and Japan		Australia Sydney			Systems Thinking	Diversity / Training	Modeling
																	Richard Beasley, Duncan Kemp	Suja Joseph-Malherbe, David Long	Erika Palmer, Jean Duprez
10:00	10:40	09:00	09:40	04:00	04:40	01:00	01:40	13:30	14:10	16:00	16:40	17:00	17:40	18:00	18:40		Paper#116: 4.1.1 / Addressing Cognitive Bias in Systems Engineering Teams Leonie Hallo (Adelaide Business School The University of Adelaide); Tom McDermott (Stevens Institute of Technology); Dennis Folds (Lowell Scientific Enterprises)	Panel#7: 4.2.1 / The Role of Diversity, Equity, and Inclusion in Sustaining Earth's Future Moderator:Suja Joseph-Malherbe (Letter27); Panelists: Stueti Gupta (BlueKei Solutions); Alice Squires (Washington State University); Alan Harding (BAE Systems – Air); Lamona Rajah (Cummins Africa Middle East);	Paper#149: 4.3.1 / General Modeling Language to Support Model-based System Engineering Formalisms (Part 1) Jinzhi Lu (Ecole Polytechnique Fédérale de Lausanne); Guoxin Wang, Junda Ma (Beijing Institute of Technology); Martin Törngren (KHT-Royal Insititute of Technology); Dimitris Kiritsis (Ecole Polytechnique Fédérale de Lausanne); Hang Zhang (Beijing ZK Fengchao Tech.Co.Ltd)
10:45	11:25	09:45	10:25	04:45	05:25	01:45	02:25	14:15	14:55	16:45	17:25	17:45	18:25	18:45	19:25	**Session 4**	Paper#143: 4.1.2 / Towards Defining the Systems Habits of an 'Aware' Student Engineer Chris Browne (ANU)		Paper#126: 4.3.2 / Models as enablers of agility in complex systems engineering Jean-Luc Voirin (Thales Airborne Systems); Juan Navas (Thales Corporate Engineering); Stéphane Bonnet (Thales Avionics Technical Directorate); Guillaume Journaux (Thales Airborne Systems)
11:30	12:10	10:30	11:10	05:30	06:10	02:30	03:10	15:00	15:40	17:30	18:10	18:30	19:10	19:30	20:10		Paper#157: 4.1.3 / Mechanisms for a Systems-Oriented Mindset - Towards Organizational Systems Thinking Erik Karlsson (ÅFRY Industrial and Digital Solutions); Diana Malvius (AcademIQ Consultant); Mats Lindberg (AnalytikerByrån)	Paper#76: 4.2.3 / The Greatest Young System Engineers of the Year Challenge Ad Sparrius (Graduate School of Technology Management, University of Pretoria)	Paper#102: 4.3.3 / Engaging Mechanical Engineers in System Modeling Katrine Gullhav (USN); Cecilia Haskins (NTU/USN)
12:10	12:30	11:10	11:30	06:10	06:30	03:10	03:30	15:40	16:00	18:10	18:30	19:10	19:30	20:10	20:30	**Break**			
South Africa and Europe		UK		US East Coast		US West Coast		India		China Hongkong		Korea and Japan		Australia Sydney			System of Systems Engineering	Systems Engineering II	Product Line Engineering
																	Macaulay Osaisai, David Long	Tom Strandberg, Jen Narkevicius	Tony Williams, Courtney Wright
12:30	13:10	11:30	12:10	06:30	07:10	03:30	04:10	16:00	16:40	18:30	19:10	19:30	20:10	20:30	21:10		Paper#43: 5.1.1 / Putting the "Systemic" (back) into the "Engineering of Systems" Jawahar Bhalla (JB Engineering Systems)	Paper#28: 5.2.1 / Using your BRAIN to get beyond "It Depends…" Ian Gibson (Atkins)	Paper#31: 5.3.1 / Do Product Lines Have Sweet Spots? Andrew Pickard, Keith Harper (Rolls-Royce Corporation)
13:15	13:55	12:15	12:55	07:15	07:55	04:15	04:55	16:45	17:25	19:15	19:55	20:15	20:55	21:15	21:55	**Session 5**	Presentation#20: 5.1.2 / Practical experience of successful System of Systems delivery Duncan Kemp (Ministry of Defence)	Paper#127: 5.2.2 / Modernization Challenges of Command and Control Systems Abdullah Aykut Mert, Ali Ozturk, Suna Durmus, Serdar Uzumcu (HAVELSAN Inc.)	Paper#49: 5.3.2 / Patterns for Success in the Adoption and Execution of Feature-based Product Line Engineering: A Report from Practitioners Susan Gregg (Lockheed Martin); David Hartley (General Dynamic Mission Systems); Morgan McAfee (General Dynamics Mission Systems); Randy Pitz (The Boeing Company); James Teaff (Raytheon); Paul Clements (BigLever Software, Inc.)
14:00	14:40	13:00	13:40	08:00	08:40	05:00	05:40	17:30	18:10	20:00	20:40	21:00	21:40	22:00	22:40		Paper#57: 5.1.3 / Towards an Automated UAF-based Trade Study Process for System of Systems Architecture Aurelijus Morkevicius (Dassault Systemes & Kaunas University of Technology); Jovita Bankauskaitė (Kaunas University of Technology)	Paper#41: 5.2.3 / Implementing Systems Engineering in Early Stage Research and Development (ESR&D) Engineering Projects Frederic Autran (Airbus Defence & Space); Heidi Hahn (Los Alamos National Laboratory); Ann Hodges (Sandia National Laboratories); Nick Lombardo (Pacific Northwest National Laboratory); Mitchell Kerman (Idaho National Laboratory)	Paper#48: 5.3.3 / Digital Product-Service Systems meet Product Line Systems Engineering – The Cart before the Horse? Hugo Guillermo Chalé Gongora, Pierre-Olivier Robic (Thales); Danilo Beuche (pure-systems GmbH)
14:40	15:00	13:40	14:00	08:40	09:00	05:40	06:00	18:10	18:30	20:40	21:00	21:40	22:00	22:40	23:00	**Break**			
15:00	**16:00**	**14:00**	**15:00**	**09:00**	**10:00**	**06:00**	**07:00**	**18:30**	**19:30**	**21:00**	**22:00**	**22:00**	**23:00**	**23:00**	**00:00**	**Keynote**	**Keynote - Plenary#K2: K2 / System Engineering of Low-Cost Earth Observing Systems - Jakob van Zyl (Hydrosat, Inc.)**		
16:00	16:20	15:00	15:20	10:00	10:20	07:00	07:20	19:30	19:50	22:00	22:20	23:00	23:20	00:00	00:20	**Break**			
South Africa and Europe		UK		US East Coast		US West Coast		India		China Hongkong		Korea and Japan		Australia Sydney			President's Invited Content II	Manufacturing Systems And Operational Aspects	Technical Leadership II
																	Bill Miller, Bill Chown	Greg Parnell, Courtney Wright	Cecilia Haskins, Nicole Hutchison
16:20	17:00	15:20	16:00	10:20	11:00	07:20	08:00	19:50	20:30	22:20	23:00	23:20	00:00	00:20	01:00		Invited Content#PIC3: 6.1.1 / Managing the Interstitials: Future of Systems Engineering Suited for Urban Infrastructure 4.0 Moderator:William Miller (Innovative Decisions, Inc.); Panelists: David Long (Vitech / Zuken); Tom McDermott ; Ad Sparrius (South Africa Chapter); Serge Landry ;	Paper#30: 6.2.1 / What's the Problem? Issue Investigation and Engineering Change on Legacy Products Andrew Pickard (Rolls-Royce Corporation); Charlotte Dunford (Rolls-Royce plc)	Paper#114: 6.3.1 / Complexity, Systems Thinking and an Integrated Systems Engineering and Project Management Model Raymond Jonkers, Kamran Shahroudi (Colorado State University)
17:05	17:45	16:05	16:45	11:05	11:45	08:05	08:45	20:35	21:15	23:05	23:45	00:05	00:45	01:05	01:45			Paper#104: 6.2.2 / Pervasive Simulation in a PLM Platform – The key to effective management of ever-increasing product complexity Pawel Chadzynski, Malcolm Panthaki, Matteo Nicolich, Rama Asuri (Aras Corp.)	Paper#58: 6.3.2 / Comparing INCOSE and PMI Portfolio Management Practices Gregory Parnell, Eric Specking, Ed Pohl (University of Arkansas)
17:50	18:30	16:50	17:30	11:50	12:30	08:50	09:30	21:20	22:00	23:50	00:30	00:50	01:30	01:50	02:30	**Session 6**		Paper#59: 6.2.3 / Evaluation of Lean Business Process Improvement Methodology Gerrit Jan Muller (University of South-Eastern Norway); Niclas Maaren (GKN Aerospace Norway); Elisabet Syverud (University of South-Eastern Norway)	Paper#80: 6.3.3 / Experiments in Leading through Influence: Reflections from a Group of Emerging Technical Leaders Chris Browne (The Australian National University); Ming Wah Tham (Thales Solutions Asia); Luca Stringhetti (SKA Organisation); Brad Spencer (Nova Professional Services); Louis-Emmanuel Romana (Airbus Operations); Al Meyer (Lockheed Martin Corporation); Clement Lee (Thales Solutions Asia); Maz Kusunoki (Nissan Motor); Myra Parsons Gross (JONY Software Solutions); Karl Geist (Precise Systems); Heather Feli (Ensign-Bickford Aerospace & Defense); David Fadeley (Integrity Technology Consultants); Heidi Davidz (Aerojet Rocketdyne); John Cadigan (Prime Solutions Group); Lauren Stolzar (Grubhub); Jeffrey Brown (United States Navy)

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Wednesday at IS 2020

Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Activity	Track 1	Track 2	Track 3
South Africa and Europe		UK		US East Coast		US West Coast		India		China Hongkong		Korea and Japan		Australia Sydney			System Security / System Safety	Environmental Systems	Ontology
																	Alice Squires, Duncan Kemp	Richard Beasley, Benjamin Mogridge	Erika Palmer, David Ward
10:00	10:40	09:00	09:40	04:00	04:40	01:00	01:40	13:30	14:10	16:00	16:40	17:00	17:40	18:00	18:40		Panel#8: 7.1.1 / How Cyber and Systems Security Engineering is Fighting for a Safe and Reliable Future Moderator:Alice Squires (Washington State University); Panelists: Peter Beling (University of Virginia); Keith Willett (Department of Defense); Peggy Brouse (George Mason University);	Paper#81: 7.2.1 / Addressing the Sustainable Development Goals with a System-of-Systems for Monitoring Arctic Coastal Regions Evelyn Honoré-Livermore, Roger Birkeland, Cecilia Haskins (Norwegian University of Science and Technology)	Paper#42: 7.3.1 / Achieving System-of-Systems Interoperability Levels Using Linked Data and Ontologies Jakob Axelsson (Mälardalen University)
10:45	11:25	09:45	10:25	04:45	05:25	01:45	02:25	14:15	14:55	16:45	17:25	17:45	18:25	18:45	19:25	**Session 7**		Paper#118: 7.2.2 / Distributed Architecture for Monitoring Urban Air Quality: A Systems Engineering Approach Philip Dewire, Tom McDermott, Adrian Unger, Fabio Guimaraes da Silva, Jennifer Nguyen, Dylan Shean, Stephen Grzelak, Laura Beth Beebe (Georgia Institute of Technology)	Paper#52: 7.3.2 / Towards an Ontology for Collaboration in System of Systems Context Robert Nilsson (Volvo Cars Corporation); Dov Dori (Technion - Israel Institute of Technology and Massachusetts Institute of Technology); Yatin Jayawant (John Deere); Leonard Petnga (University of Alabama in Huntsville (UAH)); Hanan Kohen (Technion - Israel Institute of Technology); Michael Yokell (Raytheon)
11:30	12:10	10:30	11:10	05:30	06:10	02:30	03:10	15:00	15:40	17:30	18:10	18:30	19:10	19:30	20:10		Paper#103: 7.1.3 / Integrating Process Standards for System Safety Analysis to Enhance Efficiency in Initial Airworthiness Certification of Military Aircraft: A Systems Engineering Perspective Morten Reinfjord Guldal (Norwegian Defence Materiel Agency/Air Systems Division); Jonas Andersson (University of South-Eastern Norway)	Paper#96: 7.2.3 / A Transdisciplinary Design and Implementation of Sustainable Agricultural Principles in the Waikato Region of New Zealand Hendrik van Zyl (University of Otago); Jan Hendrik Roodt (Stone To Stars Limited)	Paper#148: 7.3.3 / Linking Behaviour Data to Knowledge: Contextualization and De-Contextualization Anand Kumar, Swaminathan Natarajan, Subhrojyoti Roy Chaudhuri, Rahul Sinha (Tata Consultancy Services Research)
12:10	12:30	11:10	11:30	06:10	06:30	03:10	03:30	15:40	16:00	18:10	18:30	19:10	19:30	20:10	20:30	**Break**			
South Africa and Europe		UK		US East Coast		US West Coast		India		China Hongkong		Korea and Japan		Australia Sydney			Infrastructure	Technical Leadership III	Digital Engineering
																	Paul Schreinemakers, Courtney Wright	Heather Feli, Tony Williams	Tom McDermott, David Long
12:30	13:10	11:30	12:10	06:30	07:10	03:30	04:10	16:00	16:40	18:30	19:10	19:30	20:10	20:30	21:10		Paper#24: 8.1.1 / Creating a Roadmap to Capture a Vision for a Sustainable Community in Transition; a Case Study in a Dutch town Best Gerrit Muller, Laura Elvebakk (University of South-Eastern Norway)	Paper#61: 8.2.1 / Interface Management – the Neglected Orphan of Systems Engineering Paul Davies (thesystemsengineer.uk)	Paper#69: 8.3.1 / Implementing a Model-Based, Digital Engineering Enterprise for a Defense Systems Integrator - an Ongoing Journey Gan Wang (BAE Systems)
13:15	13:55	12:15	12:55	07:15	07:55	04:15	04:55	16:45	17:25	19:15	19:55	20:15	20:55	21:15	21:55	**Session 8**	Paper#101: 8.1.2 / Model-Based System Engineering for Life Cycle Development of Digital Twins of Real Estate Kirstin Kusel (CloudEstate)	Paper#162: 8.2.2 / Systems Engineering as a Data-Driven and Evidence-Based Discipline Avigdor Zonnenshain (Technion); Ron Kenett (KPA Ltd. and Samuel Neaman Institute, Technion); Robert Swarz (WPI)	Presentation#59: 8.3.2 / Digital Engineering in Practice Eran Gery (IBM Isreal); Graham Bleakley (IBM UK Ltd.)
14:00	14:40	13:00	13:40	08:00	08:40	05:00	05:40	17:30	18:10	20:00	20:40	21:00	21:40	22:00	22:40		Paper#68: 8.1.3 / Systems Engineering Issues in Microgrids for Military Installations Douglas L. Van Bossuyt, Ronald E. Giachetti, Gary W. Parker (Naval Postgraduate School); Christopher J. Peterson (US.. Navy Expeditionary Warfare Center)	Paper#21: 8.2.3 / Dream the future: Systems engineering in 2030 Jean-Luc Voirin (Thales Airborne Systems, Thales Technical Directorate); Olivier Constant (Thales Corporate Engineering); Eric Lépicier, Frédéric Maraux (Thales Airborne Systems)	Presentation#5: 8.3.3 / A survey of emerging standards for supporting Digital Engineering Information Exchange Celia Tseng (Raytheon)
14:40	15:00	13:40	14:00	08:40	09:00	05:40	06:00	18:10	18:30	20:40	21:00	21:40	22:00	22:40	23:00	**Break**			
15:00	**16:00**	**14:00**	**15:00**	**09:00**	**10:00**	**06:00**	**07:00**	**18:30**	**19:30**	**21:00**	**22:00**	**22:00**	**23:00**	**23:00**	**00:00**	**Keynote**	**Keynote - Plenary#K3: K3 / Water Supply Systems : A Broad Overview - Dr. Ronnie S. McKenzie (Former Chairman, Water Loss Group, International Water Association)**		
16:00	16:20	15:00	15:20	10:00	10:20	07:00	07:20	19:30	19:50	22:00	22:20	23:00	23:20	00:00	00:20	**Break**			
South Africa		UK		US East Coast		US West Coast		India		China		Korea and		Australia			TechOps Invited Content	Integration	Needs and Requirements Definition II
																	Chris Hoffman, David Endler	Bill Chown	Stephanie Chiesi, Jen Narkevicius
16:20	17:00	15:20	16:00	10:20	11:00	07:20	08:00	19:50	20:30	22:20	23:00	23:20	00:00	00:20	01:00		Invited Content#techops1: 9.1.1 / Smart Cities: Who are the winners? Dale Brown, Marcel van de Ven, Jargalsaikhan Dugar, Jennifer Russell	Panel#1: 9.2.1 / Issues, impediments, and Inspiration for Continuous Integration in Mixed Discipline Development Projects Moderator:Rick Dove (Paradigm Shift International); Panelists: Barry Papke (Catia I No Magic); Kerry Lunney (Thales Australia); Robin Yeman (Lockheed Martin Corporation); Tom McDermott (Systems Engineering Research Center, Stevens Institute of Technology); Duncan Kemp (Ministry of Defence);	Paper#142: 9.3.1 / Model Integrated Decomposition and Assisted Specification (MIDAS) Yogananda Jeppu (Honeywell Technology Solutions); Jan Fiedor (Honeywell); Brendan Hall (Honeywell International)
17:05	17:45	16:05	16:45	11:05	11:45	08:05	08:45	20:35	21:15	23:05	23:45	00:05	00:45	01:05	01:45	**Session 9**	Invited Content#techops2: 9.1.2 / Being Social with Social Systems Erika Palmer, Randy Anway (Chairs of the Social Systems Working Group)		Paper#15: 9.3.2 / When to Constrain the Design? Application of Design Standards on a New Development Program Tami Katz (Ball Aerospace)
17:50	18:30	16:50	17:30	11:50	12:30	08:50	09:30	21:20	22:00	23:50	00:30	00:50	01:30	01:50	02:30		Invited Content#techops4: 9.1.3 / Developing the INCOSE-PPI Systems Engineering Tools Database Using a Systems Engineering Approach John F. Nallon, Robert Halligan	Paper#123: 9.2.3 / Case Study: Achieving System Integration through Interoperability in a large System of Systems (SoS) Oliver Hoehne (WSP USA)	Paper#129: 9.3.3 / Top-down functional composition Johan Bredin (SAAB Aeronautics)

Pre-recorded session
Live session