

# SYSTEMS ENGINEERING THROUGH THE AGES

## Program Day 1 – December 12, 2019

<b>08:30</b>	<b>09:00</b>	<b>Welcoming coffee</b>		
09:00	09:10	Welcoming by the organizer		
09:10	09:55	<b>Alain Tropis</b> , SVP Digital Design Manufacturing & Services, <b>Airbus</b>		
09:55	10:40	<b>Olivier De Weck</b> , Professor of Aeronautics, Astronautics and Engineering Systems, <b>MIT</b>		
<b>10:40</b>	<b>11:10</b>	<b>Coffee break and partners booth visits</b>		
11:10	11:55	<b>Michael Webber</b> , Chief Science and Technology Officer, <b>Engie</b>		
<b>11:55</b>	<b>13:40</b>	<b>Lunch break and partners booth visits</b>		
		<b>System Architecture</b> Chairman: Omar Hammami, ENSTA ParisTech <i>Salon Adenauer</i>	<b>Modeling &amp; Simulation</b> Chairman: Eric Bonjour, Université de Lorraine <i>Salon Gulbenkian</i>	<b>System Thinking &amp; Governance</b> Chairman: Bernardo Delicado, MBDA <i>Salon David-Weill</i>
13:40	14:00	<b>Jonathan Holt</b> , <b>Rolls-Royce</b> "Gas Turbine Design at Rolls-Royce – Exploring the Limitations of a Systems Engineering Approach"	<b>Tatiana Prosvirnova</b> , <b>CentraleSupélec</b> "Synchronization of system architecture, multi-physics and safety models"	<b>Sanjiv Sharma</b> , <b>Airbus</b> "Managing Margins under Uncertainties"
14:00	14:20	<b>Sébastien Frischbier</b> , <b>VWD Group</b> "Managing the Complexity of Processing Financial Data at Scale - an Experience Report"	<b>Steffen Blume</b> , <b>ETH Zurich</b> "Dynamic disruption simulation in large-scale urban rail transit systems"	<b>Alan Martin Redmond</b> , <b>Pôle SCS</b> "Implementing Organizational Cybernetics for the Next Generation of Digital Business Models"
14:20	14:40	<b>Anne Collin</b> , <b>MIT</b> "A Multiobjective Systems Architecture Model for Sensor Selection in Autonomous Vehicle Navigation"	<b>Philipp Helle</b> , <b>Airbus</b> "Smart component modeling for complex system development"	<b>Mahmoud Efatmaneshnik</b> , <b>UNSW-Canberra</b> "Identifying Focal Points in IT Project Governance using a Synthetic and Systems Thinking Approach"
14:40	15:00	<b>Christoph Binder &amp; Boris Brankovic</b> , <b>University of Applied Sciences Salzburg</b> "Towards a Cross-Domain Modeling Approach in System-of-Systems Architectures"	<b>Jean-Patrick Brunet</b> , <b>IRT SystemX</b> "Simulation architecture definition for complex systems design: A tooling methodology"	<b>Mo Mansouri</b> , <b>Stevens Institute of Technology</b> "School Shootings in the U.S. – Where to Begin"
<b>15:00</b>	<b>15:30</b>	<b>Coffee break and partners booth visits</b>		
		<b>New Mobilities</b> <i>Salon Adenauer</i>	<b>Energy</b> <i>Salon Gulbenkian</i>	<b>Smart Cities</b> <i>Salon David-Weill</i>
15:30	15:40	Introduction – <b>Nesrine Ben Beldi</b> , Senior Systems Architect, <b>CESAMES</b>	Introduction – <b>Nicolas Charlier</b> , Senior Systems Architect, <b>CESAMES</b>	Introduction – <b>Guillaume Cauvin</b> , Senior Systems Architect, <b>CESAMES</b>
15:40	16:00	<b>Ariel Sirat</b> , Director, <b>IRT AESE Saint Exupery</b>	<b>Alain Poincheval</b> , Managing Director of Technip France & SVP of Paris Operating Center within the Regional Business Unit EMIA, <b>TechnipFMC</b>	<b>Guillaume Farny</b> , Directeur, <b>ATEC ITS FRANCE</b>
16:00	16:20	<b>Franck Davoine</b> , CNRS researcher, <b>Heudiasyc, UTC Compiègne, Labex MS2T</b>	<b>Jan Andreas</b> , CEO, <b>Anleg GmbH</b>	<b>Serge Salat</b> , President, <b>Urban Morphology and Complex Systems Institute</b>
16:20	16:40	<b>Dr. Michael Jastram</b> , Senior Solutions Architect, <b>Jama Software</b>	<b>Thierry Forsans</b> , Digiref Project, <b>TOTAL E&amp;P</b>	<b>Gauthier Fanmuy</b> , Systems Engineering Role Portfolio Director, <b>Dassault Systèmes</b>
16:40	17:00	Q&A with all the speakers	Q&A with all the speakers	Q&A with all the speakers
17:00	17:30	<b>Florian Guillermet</b> , Executive Director, <b>SESAR Joint Undertaking</b>		
17:30	17:45	Pitches from authors selected to present a Poster		
<b>17:45</b>	<b>19:00</b>	<b>Posters Session &amp; Cocktail</b>		

# SYSTEMS ENGINEERING THROUGH THE AGES

## Program Day 2 – December 13, 2019

08:30	09:00	<b>Welcoming coffee</b>		
09:00	09:05	Welcoming by the Chair		
09:05	09:55	<b>Marc Peyrichon</b> , Group Lead Systems Engineering, <b>Naval Group</b>		
09:55	10:45	<b>Antoine Rauzy</b> , Professor, <b>Norwegian University of Science and Technology</b>		
10:45	11:15	<b>Coffee break and partners booth visits</b>		
11:15	12:05	<b>Alexandre Corjon</b> , Alliance Global Vice President Engineering Electrics/Electronics and System, <b>Renault-Nissan</b>		
12:05	13:30	<b>Lunch break and partners booth visits</b>		
		<b>Public Transportation</b> <i>Salon Adenauer</i>	<b>Verification &amp; Validation</b> <i>Salon Gulbenkian</i>	<b>Product Line Engineering</b> <i>Salon David Weill</i>
13:30	13:40	Introduction – <b>Jonathan Holt</b> , <b>Rolls Royce</b>	Introduction – <b>Nicolas Gueit</b> , <b>Safran</b> <b>Aircraft Engines</b>	Introduction – <b>Jérôme Gui</b> , Senior Systems Architect, <b>CESAMES</b>
13:40	14:00	<b>Mo Mansouri</b> , <b>Stevens Institute of Technology</b> "An Analysis of Bike Share Systems in Urban Areas"	<b>Emmanuel Gaudin &amp; Mihal Brumbulli</b> , <b>Pragmadev</b> "Verification of BPMN models"	<b>Jérôme Javelle</b> , Vice-President Methods & Tools, <b>Airbus</b>
14:00	14:20	<b>Tchoya Florence Koné</b> , <b>PSA</b> "Safety demonstration of Autonomous vehicles: a review and future research questions"		<b>Khalid Kouiss</b> , R&D Engineer, <b>Faurecia</b>
14:20	14:40	<b>David Pedersen</b> , <b>Bizcon</b> "How Stockholm Traffic (SLL) have used EA and resource architecture to plan new train lines"	<b>Patrick Esteve &amp; Willy Platzer</b> , <b>Thales</b> "MAESTRIA: A New Tool to Support Collaborative Building and Sharing of an IVVQ Strategy"	<b>Nicolas Cottereau</b> , Country Manager & Sigmetrix channel Manager, <b>Maplesoft</b>
14:40	15:00	Q&A with all the speakers	Q&A with all the speakers	Q&A with all the speakers
15:00	15:30	<b>Coffee break and partners booth visits</b>		
		<b>Modeling, Simulation, Visualization</b> <i>Salon Adenauer</i>	<b>Industry 4.0</b> <i>Salon Gulbenkian</i>	<b>Systems of Systems</b> <i>Salon David Weill</i>
15:30	15:40	Introduction – <b>Hadrien Bourjot</b> , Senior Systems Architect, <b>CESAMES</b>	Introduction – <b>Cécile Beyssac</b> , Senior Systems Architect, <b>CESAMES</b>	Introduction – <b>Guillaume Obry</b> , Senior Systems Architect, <b>CESAMES</b>
15:40	16:00	<b>Marco Ferrogalini</b> , Vice President - Head of Modelling and Simulations (MBSE), <b>Airbus</b>	<b>Oussama Cherif Idrissi El Ganouni</b> , Innovation Director – Smart Automation Solutions Division, <b>Fives Group</b>	<b>Jakob Axelsson</b> , Professor and Senior Research Leader Systems-of- Systems, <b>RISE SICS</b>
16:00	16:20	<b>Philippe Duluc</b> , CTO Big Data & Security, <b>Atos</b>	<b>Jean-Marc Chatelanaz</b> , VP Full Track & Trace, <b>Renault</b>	<b>André Ayoun</b> , System Engineering expert, <b>ArianeGroup</b>
16:20	16:40	<b>François Sillion</b> , Director, <b>Uber</b>	<b>Paul Labrogère</b> , CEO, <b>IRT SystemX</b>	<b>Michael Pfenning</b> , Senior Product Manager for Systems Engineering, <b>Aras</b>
16:40	17:00	Q&A with all the speakers	Q&A with all the speakers	Q&A with all the speakers
17:00	17:30	<b>Daniel Krob</b> , Institute professor at <b>Ecole Polytechnique</b> , President of <b>CESAMES</b> and INCOSE Fellow		
17:30	19:00	<b>Farewell Cocktail</b>		