

May 21

08:30-09:00	Registration		
	<b>PLENARY (Newport Area Sections E - J)</b>		
Session Chair	Eric Daubourg, ESI France		
09:00-09:05	<b>Eric Daubourg, COO, ESI France, Welcome &amp; Introduction</b>		
09:05-09:35	<b>Alain de Rouvray, CEO, ESI Group, President's Address</b>		
09:35-10:05	<b>Keynote Renault, Eric Landel, Expert Leader in Numerical Modeling and Simulation: Simulation factory: a way to face complexity for numerical modelisation</b>		
10:05-10:35	<b>Keynote: Airbus Defense &amp; Space, Hervé Gilibert, Chief Technical &amp; Quality Officer, Head of Operations: Virtual Product Engineering &amp; Space Transportation Systems</b>		
10:35-11:00	Coffee Break (Blue Bay Area: Lobby, Beach & Pacific rooms)		
11:00-11:30	<b>Keynote: AREVA, Morello Sperandio, Scientific Director: Expected improvements from AREVA in the domain of Numerical Analysis</b>		
11:30-12:00	<b>Keynote: Nissan Motor CO. LTD., Toshihiro Araki, General Manager of the Integrated CAE Department CAE and Testing Division 1: Vision - Zero defect in physical test by CAE</b>		
12:00-12:30	<b>Keynote Automotive: Volkswagen, Dr. Ralph Sundermeier, Head of the Department for CAE-methods: Computational Calculation - from problem to process</b>		
12:30-12:45	<b>Eric Daubourg, ESI France, Conclusion</b>		
12:45-01:45	Lunch Time (Blue Bay Area: Lobby, Beach & Pacific rooms)		
	<b>PARALLEL SESSIONS</b>		
	<b>Aerospace &amp; Defense Newport Section G - H</b>	<b>Energy &amp; Power Newport Section E - F</b>	<b>Ground Transportation Newport Section I - J</b>
Session Chair	<b>Slaheddine Frikha</b>	<b>Philippe Mourgue</b>	<b>Jean-Christophe Allain</b>
01:45-02:15	<i>The Manufacturing Process Simulation for a "good" industrialization</i> <b>Airbus Helicopters, Georges-Eric Moufle</b>	<i>Importance of the digital simulation in R&amp;D in mechanics and materials at AREVA</i> <b>Philippe Gilles, AREVA</b>	<i>Fatigue Estimation of Press Parts by accounting for Production Process Change</i> <b>Honda R&amp;D Co., Ltd, Mitsuhiro Takayama</b>
02:15-02:30	<i>Introduction</i> <b>ESI Group, Slaheddine Frikha</b>	<i>Introduction</i> <b>ESI Group, Philippe Mourgue</b>	<i>Introduction</i> <b>ESI Group, Jean-Christophe Allain</b>
02:30-03:00	<i>Use of virtual seat prototypes to develop the Titanium Seat: an ultra-light aircraft seat</i> <b>Explicseat SAS, Vincent Tejedor</b>	<b>EDF, Nicolas Delabouchere</b>	<i>Car body design in crash: a new optimization challenge</i> <b>Renault SAS, Yves Tourbier</b>
03:00-03:30	<i>The ExoMet Project: EU/ESA Research on High-Performance Light-Metal Alloys and Nanocomposites</i> <b>European Space Agency (ESA), Wim Sillekens</b>	<i>Virtual Manufacturing Engineering: A challenge for Verification and Validation</i> <b>AREVA, Vincent Robin</b>	<i>Advanced CAE modeling for accurate IIHS small overlap prediction</i> <b>Nissan Motor Co., LTD., Jun Iyama</b>
03:30-04:00	<i>Process Modelling of a welded assembly of multiple parts. Simulation of weld-induced distortion usina Local-Global approach.</i> <b>Rolls-Royce plc, Nunzio Palumbo</b>	<i>Reynolds Averaged Navier-Stokes Computations of a Cavitating Tip Vortex</i> <b>HEVS, Jean Decaix</b>	<i>Validation and Uncertainty Quantification – A Promising Approach to Improve Credibility of Crash Simulations?</i> <b>Volkswagen, Philipp Wellkamp</b>
04:00-04:30	Coffee Break (Blue Bay Area: Lobby, Beach & Pacific rooms)		
04:30-05:00	<i>Improving the predictions of distortions throughout the manufacturing process of mechanical partsfor a "one shot" industrialization</i> <b>Airbus Helicopters, Tiffany Caula &amp; Julien Ferraille</b>	<i>Innovative thermal energy harvesting for future autonomous applications</i> <b>STMicroelectronics, Stéphane Monfray</b>	<i>A Study of FEM Driving Simulation with VPS</i> <b>Honda R&amp;D Co., Ltd., Eisei Higuchi</b>
05:00-05:30	<i>Engineered simulations of composites materials and processes</i> <b>Ecole Centrale de Nantes, Francisco Chinesta</b>	<i>Sand Casting Process Simulation &amp; Optimization of large-scale Steel Parts</i> <b>Creusot Forge, Guy Mikolajski</b>	<i>CFRP material characterization and FEA modeling guidelines for feasible and reliable crashworthiness CAE analysis</i> <b>Applus Idiada, Pablo Cruz</b>
05:30-06:00	<i>Is Process Simulation a key for competitiveness?</i> <b>Airbus Defense &amp; Space, Guy Larnac</b>	<i>IV Generation Reactor Project - Seismic Analysis with Fluid Elements</i> <b>AREVA, Christian Canteneur</b>	<i>Virtual Seat: Human Modeling and CAE based Seat Comfort Correlation</i> <b>Hyundai Motor Europe Technical Center GmbH, Vincent Laurent</b>
06:00-6:30	<i>Numerical Modeling of Various Crushing Morphologies in Composite Energy Absorbers</i> <b>DLR, Nathalie Toso</b>	<b>ESI, Philippe Conraux</b>	<i>Vibro-Acoustics simulation use to help reduce the sound package in the new Range Rover</i> <b>Jaguar LandRover, Steve Fisher</b>
07:00	FORUM DINNER (Boarding 7:15 PM at Jean Bruel, Ile aux Cygnes)		
	✳ Program is subject to change without notice.		

## ESI Global Forum 2014

May 22

### Parallel Sessions

Session Chair	Aerospace & Defense Newport Section G - H	Energy & Power Newport Section E - F	Ground Transportation Newport Section I - J
	Slaheddine Frikha	Philippe Mourgue	Jean-Christophe Allain
09:00-09:30	<i>Development of an acoustic panel for noise reduction in helicopter cabin</i> <b>Acoudesign, Jean-Philippe Thomé</b>	<i>Advanced fatigue assessment methods for power plant components</i> <b>AREVA GmbH, Jürgen Rudolph</b>	<i>Numerical prediction with PAM-STAMP 2G of appearance defects induced by surface deflection on stamped parts</i> <b>PSA PEUGEOT CITROËN, Benoît Changeux</b>
09:30-10:00	<i>The Future has Arrived. Are you ready for the Digital Transition?</i> <b>PCC Airfoils, LLC, Donald L. Deptowicz</b>	<i>Battery performance and electrochemical modeling</i> ESI, Wolfgang Ottow on behalf of <b>CEA, Christophe Secourd</b>	<i>From part design to a press hardening production die, through virtual reality</i> <b>AP&amp;T, Per Josefsson &amp; ESI, Harald Porzner</b>
10:00-10:30	<i>Reflector manufacturing process simulation</i> <b>Airbus Defense &amp; Space, Audrey-Marine Louis</b>	<i>Wind Turbines</i> <b>EDF, Franck Delplace</b>	<i>How a combination of innovative technologies (Hot stamping) and the most advanced developments in virtual product design and manufacturing is leading to safer and lighter body structures?</i> <b>GESTAMP, Christophe Cazes &amp; Emmanuel Leroy</b>
10:30-11:00	Coffee Break		
11:00-11:30	<i>Advanced Simulations using SPHs of bird splitting, ditching loads and fuel sloshing</i> ESI Group, Argiris Kamoulakos on behalf of <b>Airbus Defence and Space, Military Aircraft</b>	<i>Advanced simulation for analyzing the behavior of Immersed nuclear components subject to complex loading</i> <b>ESI France, Laurent Mouchette</b>	<i>Integrating the ESI IC:IDO Virtual Reality software at the Manufacturing Technology Centre, UK</i> <b>The Manufacturing Technology Centre, Paul Hetherington</b>
11:30-12:00	<i>Integration of Casting Numerical Simulation with Manufacturing Process Design</i> <b>OJSC Aviadvigatel, Aleksandra Dubrovskaya</b>	<i>Development of Test Methods for Parameter Identification of Hyperelastic Ogden Model and Its Validation</i> <b>Panasonic Corporation, Masato Ito</b>	<i>Antenna for Wireless Intra-Vehicle Communication at ISM 61 GHz Band</i> <b>Brno University, Michal Pokorný</b>
12:00-12:30	<i>Shape Distortion and RTM applied on a real-life wing-cover</i> <b>ESI Group, Laurent Dufort</b>	<i>Coupled CFD and VA One Application Solution for Acoustic Extraction</i> <b>ESI Group, Marc Doroudian</b>	<i>Simulation of communication performance for e-Call system</i> <b>MAZDA Motor Corporation, Yasushi Hamada &amp; Marie Tsurunaga</b>
12:30-13:30	Lunch Break		
Session Chair	Aerospace & Defense Newport Section G - H	Ground Transportation Materials (Newport E - F)	Ground Transportation Safety (Newport I - J)
	Slaheddine Frikha	Argiris Kamoulakos	Jean-Christophe Allain
13:30-14:00	<i>Friction Steer Welding (FSW)</i> <b>Dassault Aviation, Jean-Yves Marin</b>	<i>Materials - today and tomorrow</i> <b>ESI Group, Argiris Kamoulakos</b>	<i>Energy Flux Analysis: A way to better understand airbag deployment phenomena</i> ESI GmbH, Jutta Schlosser on behalf of <b>AUDI AG, Erich Blümcke</b>
14:00-14:30	<i>Investment Casting Process Simulation Manufacturing of a Turbine Blade</i> <b>SNECMA - Safran Group, Virginie Jaquet &amp; Serge Fargeas</b>	<i>Substitution of a Conventional Floor Structure by a Vehicle Body Platform in Sandwich Design</i> <b>German Aerospace Center (DLR), Michael Zimmermann &amp; Simon Brückmann</b>	<i>Latest Developments of Virtual Performance Solution (VPS) Crash Test Dummy Models</i> <b>Humanetics Europe, Apoorva Lakshminarayana</b>
14:30-15:00	Coffee Break		
15:00-15:30	<i>Benefits of robot programming via Tablet computer in Virtual Reality</i> <b>Hochschule Albstadt-Sigmaringen, Nicolai Beisheim</b>	<i>Numerical Modelling of the Damage and Failure Behavior of Flow Drill Screw Joints between Fibre-Reinforced Plastics and Aluminium</i> <b>Virtual Vehicle Research Center, Robert Szlosarek</b>	<i>VIRTHUMAN – scalable multi-directional hybrid model for safety</i> <b>West Bohemia University in Pilsen, Luděk Hynčík &amp; ESI Mecas</b>
15:30-16:00	<i>End-to-End Virtual Prototyping for Composite Structures with Virtual Performance Solution</i> ESI Group, Alain Trameçon	<i>Development of CAE software for injection and BMC/SMC molding including short/long fiber reinforcement</i> ESI Group, Pierre Marquette on behalf of <b>Toray Engineering Co., Ltd</b>	<i>VIEPP Visteon Injected Expanded PolyPropylene Material Modeling</i> <b>Visteon, Christophe Germain and Pascal Emery, Christian Bey</b>
16:00	Closing & Farewell		

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