

## Ballroom A

## Room 552

Start Time		
7:00 AM	Registration	
8:00 AM	Opening Remarks: SIMULIA	
8:10 AM	Invited Lecture: <i>A Three Decade-Long Journey in the Use of Advanced Simulation Technologies in the Upstream Oil and Gas Industry</i> , Bruce A. Dale, Senior Consultant, ExxonMobil Upstream Research Company	
	<b>4A: TIRES</b>	<b>4B: AEROSPACE</b>
	Chair: Harish Surendranath	Chair: Kyle Indermuehle
9:05 AM	<i>Tire Performance Evaluation For Severe Snow Traction</i> , Jan Terziyski, Hankook Tire Co. Ltd.	<i>Micromechanics-Based Structural Analysis (FEAMAC) and Multiscale Visualization within Abaqus/CAE Environment</i> , Steven Arnold, NASA Glenn Research Center
9:35 AM	<i>Role of Abaqus in the Development of the Michelin Tweel® Tire</i> , Steve Cron, Michelin R&D Company	<i>Coupled Eulerian-Lagrangian Approach Using Abaqus/Explicit in the Bird Strike Aircraft Damage Analysis</i> , Ivica Smojver, University of Zagreb
10:00 AM	BREAK & PARTNER EXHIBITION	
	<b>5A: AUTOMOTIVE</b>	<b>5B: AEROSPACE</b>
	Chair: Eric Weybrant	Chair: Vladimir Sokolinsky
10:30 AM	<i>Dynamic Load Analysis and Optimization of a Fracture-Split Connecting Rod</i> , Athar Mohammad Khan, Ashok Leyland Motors Ltd. India	<i>Predicting Snap-Through of a Thin-Walled Panel due to Thermal and Acoustic Loads</i> , R. Scott Miskovich, ATA Engineering
11:00 AM	<i>Gas Metal Arc Welding (GMAW) Finite Element Simulation</i> , Kunding Wang, Luk USA	<i>Friction Stir Plug Weld Crack Meshing for NASA</i> , Greg Thorwald, Quest Integrity Group
11:35 AM	GENERAL LECTURE 2: <i>Isight Driving Realistic Simulation</i> , Kyle Indermuehle, Industry Lead-Aerospace, SIMULIA and Alex Van der Velden, Product Manager, SLM, SIMULIA	
12:20 PM	LUNCH (Sponsored by HBM-nCODE) & PARTNER EXHIBITION	
	<b>CS2A: COMPLEMENTARY SOLUTIONS</b>	<b>CS2B: COMPLEMENTARY SOLUTIONS</b>
	Chair: Matt Dunbar	Chair: Karl D'Souza
1:20 PM	<i>Workstation to HPC Cluster Migration Using Windows HPC Server</i> , Tom Quinn, Microsoft Corporation	<i>Solving Fluid-Structure Interaction Problems in Engineering Practice by FlowVision and Abaqus Direct Coupling</i> , Andrey Aksenov & Tomasz Luniewski, CAPVIDIA NV
1:50 PM	<i>TOSCA Structural Optimization for Enhancing the Abaqus/CAE Design Process</i> , Claus B. W. Pedersen, FE-Design GmbH	<i>Vendor Independent Interfaces for Multiphysics Simulations</i> , Klaus Wolf, Fraunhofer Institute SCAI
	<b>6A: AUTOMOTIVE</b>	<b>6B: COMPOSITES</b>
	Chair: Victor Oancea	Chair: Juan Hurtado
2:20 PM	<i>Transmission Efficiency Prediction of a Metal Pushing V-Belt CVT with Implementation of Control Logic</i> , Toshihiro Saito, Honda R&D Co.,Ltd.	<i>Advanced Decohesion Elements for the Simulation of Composite Delamination</i> , Charles Rankin, Rhombus Consultants Group, Inc.
2:50 PM	<i>Coupled Fluid-Structure Interaction Simulation Using Abaqus CEL</i> , Fan Li, General Motors	<i>Efficient Modeling of Damage Processes in Heterogeneous Materials under Impact Load</i> , Mark Gurvich, United Technologies Research Center
3:20 PM	<i>Friction and Fretting Study of Thin Sheet Metal</i> , Michael R. Hirsch, Georgia Institute of Technology	<i>Preliminary Design of a Composite Wing-Sail</i> , Timothy Clarke, Verney Yachts Limited
3:45 PM	BREAK & PARTNER EXHIBITION	
4:15 PM	GENERAL LECTURE 3: <i>Abaqus 6.10 Overview &amp; Demo</i> , Eric Weybrant, Product Manager, Abaqus Analysis Products, SIMULIA and Asif Khan, Product Manager, Abaqus/CAE, SIMULIA	
5:15 PM	DAY ENDS	

### Group Photo and Banquet Information

- 5:15 Walk to the Rhode Island State House
- 5:30 Group Photo; Walk to The Providence Biltmore
- 6:00 Cocktail Reception
- 7:00 Dinner
- 9:00 Banquet Concludes

## Ballroom C

## Room 551

## Room 553

<b>4C: ENERGY</b>	<i>Chair:</i> <i>Shirish Mulmule</i>	<b>4D: ELECTRONICS</b>	<i>Chair:</i> <i>David Cadge</i>	<b>4E: PROCESS AUTOMATION</b>	<i>Chair:</i> <i>Luc Bondarenko</i>
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*FEA Capturing both Brittle and Ductile Crack Propagation,*  
**Brian Rose, Quest Integrity Group**

*An Abaqus Extension for Welding Simulations,*  
**Chris Habura, Bechtel Marine Propulsion Corp. and Murali Pandheeradi, SIMULIA**

*Designing Motorola Mobile Radio for Shock and Vibration Requirements,*  
**Ben Nagaraj, Motorola Inc.**

*Applying Sensitivity Analysis and Robustness Evaluation in Virtual Prototyping on Product Level Using optiSLang,*  
**Johannes Will (on behalf of NOKIA), Dynardo**

*Integrating Business and Technical Workflows to Achieve Asset-Level Production Optimization,*  
**Michael Sztatny, Halliburton**

*Machining Part Program Optimization through an Advanced Multidisciplinary Procedure,*  
**Antonio De Vitis, Università del Salento**

<b>5C: ENERGY</b>	<i>Chair:</i> <i>Mahesh Kailasam</i>	<b>5D: LIFE SCIENCES</b>	<i>Chair:</i> <i>Cheryl Liu</i>	<b>5E: SIMULATION LIFECYCLE MANAGEMENT</b>	<i>Chair:</i> <i>Shawn Freeman</i>
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*Post-Cracking Behavior of a Wind Turbine Concrete Tower,*  
**Francisco Martinez, Principia Ingenieros Consultores SA**

*Stress and Fatigue Analyses of a PWR Reactor Core Barrel Components,*  
**Lilit Mkrtychyan, TÜV SÜD ET**

*Calibration of Nonlinear Viscoelastic Materials in Abaqus Using the Adaptive Quasi-Linear Viscoelastic Model,*  
**David Smith, Ethicon Endo-Surgery, Inc.**

*Investigation of Interaction between Guidewire and Native Vessel Using Finite Element Analysis,*  
**Atul Gupta, Medtronic, Inc.**

*Enhancing Simulation Value Using Abaqus with SIMULIA SLM - A Customer's Perspective,*  
**Chris Pieper, Kimberly-Clark Corporation**

*Simulation Life Cycle Management as a Tool to Enhance Product Development and its Decision-Making Process for Powertrain Applications,*  
**Rohit Ramkumar, Dana Holding Corp.**

<b>CS2C: COMPLEMENTARY SOLUTIONS</b>	<i>Chair:</i> <i>Sanjay Angadi</i>	<b>CS2D: COMPLEMENTARY SOLUTIONS</b>	<i>Chair:</i> <i>Amit Agarwal</i>
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*Utilizing Helius: MCT for Abaqus to Reduce Time-to-Market and Testing Costs for Composite Materials Structures,*  
**Emmett Nelson, Firehole Technologies, Inc.**

*Simulation Coupling Using ANSA as the Preprocessor for Transferring Results Across Calculations,*  
**Michael Giannakidis & George Mokios, BETA CAE Systems SA**

*Unified Modeling and Multi-Solver and Attribute Simulation - The Global LMS Virtual.Lab Solution,*  
**Nick Tzannetakis, LMS International**

*Kornucopia - Powerful Tools for Manipulating, Analyzing, and Correlating Challenging Nonlinear and Noisy Data from Abaqus and Experiments,*  
**Ted Diehl, Bodie Technology, Inc.**

<b>6C: ENERGY</b>	<i>Chair:</i> <i>Jeff Haan</i>	<b>6D: LIFE SCIENCES</b>	<i>Chair:</i> <i>Nuno Rebelo</i>	<b>6E: PROCESS AUTOMATION</b>	<i>Chair:</i> <i>JP Evans</i>
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*Seismic Response of Floating Roof Storage Tanks Contact Pressure Analysis,*  
**Philip Cacciatore, ExxonMobil Research & Engineering**

*Onset of Levitation in Thrust Bearing: FSI Study Using Abaqus-FlowVision Coupling,*  
**Andrey Aksenov, TESIS**

*Flood-Cooling of Mechanical Components,*  
**Artemis Agelariadou, Twohig FM Global**

*A Project to Develop a Fatigue Design Method for Nitinol Stents,*  
**Radwan Hazime, Safe Technology Limited**

*Virtual Scaffolding and Radial Strength Testing of Stents,*  
**Benedict Verheghe, Ghent University**

*Calibration of Material Model for Nitinol,*  
**P. H. Wilson Tsang, Cordis Corp.**

*Multidisciplinary Design Optimization (MDO) with CAD and CAE,*  
**Xavier Dugros, Digital Product Simulation**

*How Can We Make Best ... Better: Using Abaqus and Isight to Optimize Tools for Downhole Expandable Tubulars,*  
**Jeff Williams, Baker Hughes Incorporated**

*Simplification and Automated Modification of Existing Isight Processes,*  
**Holger Wenzel, SIMULIA (on behalf of Rolls-Royce Deutschland Ltd & Co KG)**

