

### Ballroom A

### Room 552

Start Time			
7:00 AM	Registration		
8:00 AM	Opening Remarks: David Barnes, General Manager, SIMULIA		
8:10 AM	SIMULIA Business Outlook: Scott Berkey, Chief Executive Officer, SIMULIA		
8:25 AM	SIMULIA Strategy: Ken Short, Vice President, Strategy & Marketing, SIMULIA		
8:45 AM	Invited Lecture: <i>Developing Safe Packaging for Milk with Computer-Aided Engineering</i> , Mattias Olsson, Manager, Virtual Engineering, Tetra Pak		
	<b>1A: AUTOMOTIVE</b>	Chair: Dale Berry	<b>1B: CIVIL ENGINEERING</b> Chair: Xiaohu Liu
9:40 AM	<i>Modeling and Analysis Techniques for Suspension Rubber Bushings</i> , Satoshi Ito, Toyota Motor Corp.		<i>Minneapolis I-35W Bridge Collapse – Engineering Evaluations and Finite Element Analyses</i> , Carl Schultheisz, National Transportation Safety Board
10:10 AM	<i>The Effects of Overload on Fatigue Life</i> , Yeonsang Yoo, Hyundai Motor Company		<i>Sensitivity Analyses of Structural Steel Connection Fire Performance</i> , Kevin LaMalva, Simpson Gumpertz & Heger (SGH)
10:35 AM	BREAK & PARTNER EXHIBITION		
11:05 AM	Special Interest Groups		
11:55 AM	LUNCH & PARTNER EXHIBITION		
	<b>CS1A: COMPLEMENTARY SOLUTIONS</b>	Chair: Karl D'Souza	<b>CS1B: COMPLEMENTARY SOLUTIONS</b> Chair: Christopher Wohlever
12:55 PM	<i>Using STAR-CCM+ and Abaqus Direct Coupling to Perform FSI and Thermal Stress Simulations</i> , Alan Mueller, CD-adapco		<i>HyperSizer and Abaqus FEA Commercial Software Integration for Aerospace Structural Analysis and Composite Material Optimization</i> , Craig Collier, Collier Research - Hypersizer
1:25 PM	<i>Three Years of Direct Coupled FSI Results with AcuSolve and Abaqus</i> , Steve Cosgrove, Acusim Software Inc.		<i>Fracture, Fatigue, and Fire Damage Prediction Toolkit in Abaqus via Module Integration and Coupling</i> , Jay Shi, Global Engineering and Materials, Inc.
	<b>2A: AUTOMOTIVE</b>	Chair: Brad Heers	<b>2B: MATERIALS</b> Chair: Sekar Govindarajan
1:55 PM	<i>A Challenging Problem: The Dynamic Analysis of a High-Precision Reduction Gear</i> , Kazuhiko Yokoji, Nabtesco Corp.		<i>Finite Element Modeling of Thermoplastics at Different Temperatures</i> , Jorgen Bergstrom, Veryst Engineering
2:25 PM	<i>Recent Applications of Abaqus/Explicit in GM Chassis CAE</i> , Robert Geisler, General Motors		<i>Creating Viable FEA Material Representations for Elastomers Using Non-Ideal Test Data</i> , Ted Diehl, DuPont Engineering Technology
2:55 PM	BREAK & PARTNER EXHIBITION		
	<b>3A: AUTOMOTIVE</b>	Chair: Marc Schrank	<b>3B: CIVIL ENGINEERING</b> Chair: Xiaohu Liu
3:20 PM	<i>Predictive Crashworthiness Simulation in a Virtual Design Process without Hardware Testing</i> , Jürgen Lescheticky, BMW Group		<i>Finite Element Models for Dynamic Analysis of Vehicles and Bridges under Traffic Loads</i> , Javier Oliva, Technical University of Madrid
3:50 PM	<i>FE Analysis and Experimental Verification for Sealing Performance and Fatigue Durability of MLS Head Gasket of an Engine</i> , Sangwoo Cha, Hyundai Motors Company		<i>The Engineering Practice of Elasto-Plastic Dynamic Time-History Analysis on Complex Building Structures Using Abaqus</i> , An Dongya, Shanghai Xian Dai Architectural Design (Group) Co.,Ltd
4:20 PM	<i>Stress Analysis Method for Bolt Thread Roots of Automotive Engine under Operating Condition</i> , Hideto Momii, ESTECH Corp.		
4:55 PM	GENERAL LECTURE 1: <i>Simulation Lifecycle Management with Real-World Customer Workflow</i> , Satya Musti, General Manager, SLM, SIMULIA and Frank Popielas, Manager, Advanced Engineering, Sealing Products Group, Dana Holding Corp.		
6:10 PM	PARTNER RECEPTION		

Ballroom C

Room 551

Room 553

<p><b>1C: ENERGY</b> <span style="float: right;"><i>Chair:</i> Mahesh Kailasam</span></p> <p><i>Analysis of Casing Connections Subjected to Thermal Cycle Loading,</i> <b>Gang Tao, C-FER Technologies</b></p> <p><i>Structural Simulation of a Horizontal Pressure Vessel for Predicting Stress under Extreme Weather Conditions,</i> <b>N. Johana Gámez, COMIMSA</b></p>	<p><b>1D: CONSUMER GOODS</b> <span style="float: right;"><i>Chair:</i> David Cadge</span></p> <p><i>Evaluating Hearing Protection Comfort through Computer Modeling,</i> <b>Andrew Baker, Kimberly-Clark Corp.</b></p> <p><i>Origami with Abaqus,</i> <b>Alberto Mameli, Tetra Pak Packaging Solutions</b></p>	<p><b>1E: DESIGN OPTIMIZATION</b> <span style="float: right;"><i>Chair:</i> Frédéric Merceron</span></p> <p><i>Simulation Driven Design Enabling Robust Design,</i> <b>Alexander Karl, Rolls-Royce</b></p> <p><i>Optimization of Composite Layers Lay-Up of an Aeronautical Component Using an Isight-Based Intelligent Decision Advisor, iDA,</i> <b>Luca Fattore, Exemplar s.r.l.</b></p>
<p><b>CS1C: COMPLEMENTARY SOLUTIONS</b> <span style="float: right;"><i>Chair:</i> Juan Hurtado</span></p> <p><i>Nonlinear Multi-Scale Modeling of Reinforced Plastics Parts with Digimat to Abaqus,</i> <b>Roger Assaker, e-Xstream engineering SA</b></p> <p><i>Z-mat, Z-sim and Z-post: A Set of Tools for the Efficient Material Simulation and Durability Analysis,</i> <b>Nikolay Osipov, Northwest Numerics &amp; Modeling, Inc.</b></p>	<p><b>CS1D: COMPLEMENTARY SOLUTIONS</b> <span style="float: right;"><i>Chair:</i> Amit Agarwal</span></p> <p><i>Fracture Mechanics and 3D Crack Mesh Analysis Software,</i> <b>Greg Thorwald, Quest Integrity Group</b></p> <p><i>Industry Examples of fe-safe Fatigue Analysis for Abaqus Models,</i> <b>Farhad Esmaili, Safe Technology Limited</b></p>	
<p><b>2C: ENERGY</b> <span style="float: right;"><i>Chair:</i> Deepak Datye</span></p> <p><i>Cyclic Loading of a Rock Mass for Underground Gas Storage Applications,</i> <b>Ken Watson, Weatherford International</b></p> <p><i>Evaluation of Stress and Strain Induced by the Rock Compaction on a Hydrocarbon Well Completion Using Contact Interfaces with Abaqus,</i> <b>Gaia Capasso, eni E&amp;P</b></p>	<p><b>2D: LIFE SCIENCES</b> <span style="float: right;"><i>Chair:</i> Zhen-zhong Du</span></p> <p><i>Fracture Analysis of the Battery Cans for Implantable Pulse Generators,</i> <b>Markus Reiterer, Medtronic, Inc.</b></p> <p><i>Linear Elastic Fracture Mechanics (LEFM) Analysis of Flaws within Residual Stress Fields,</i> <b>Brian Bailargeon, Cordis Corp.</b></p>	<p><b>2E: DESIGN OPTIMIZATION</b> <span style="float: right;"><i>Chair:</i> Alex van der Velden</span></p> <p><i>Isight-Abaqus Optimization of a Ring-Stiffened Cylinder,</i> <b>Nicholas Barner, General Dynamics Electric Boat</b></p> <p><i>Benefits of Simulation Process Automation for Automotive Applications,</i> <b>Hugues Massé, INERGY Automotive Systems Research</b></p>
<p><b>3C: ENERGY</b> <span style="float: right;"><i>Chair:</i> Asif Khan</span></p> <p><i>An Evaluation of Associative Interface for SolidWorks and Abaqus/CAE,</i> <b>Hung-Peng Li, Baker Hughes Incorporated</b></p> <p><i>Tee Design Application,</i> <b>Jean-Pascal Assemat, Digital Product Simulation</b></p> <p><i>Shape Memory Material Manufacturing Design Optimization and Stress Analysis</i> <b>Chuanyu Feng, Baker Hughes Incorporated</b></p>	<p><b>3D: LIFE SCIENCES</b> <span style="float: right;"><i>Chair:</i> Subham Sett</span></p> <p><i>Virtual Design from Nature: Kinematic Modeling of the Seahorse Tail,</i> <b>Benedict Verhegghe, Ghent University</b></p> <p><i>FEA of a Proximal Humerus Fracture with a Fixation Plate,</i> <b>Phillippe Young, University of Exeter</b></p> <p><i>FEA of Prosthetic Lens Insertion during Cataract Surgery,</i> <b>Robert Stuppelbeen, Bausch + Lomb</b></p>	<p><b>3E: DESIGN OPTIMIZATION</b> <span style="float: right;"><i>Chair:</i> Mike Sheh</span></p> <p><i>Advanced Body in White Architecture Optimization,</i> <b>Barry Bai (on behalf of Pan Asia Technical Automotive Center), SIMULIA</b></p> <p><i>Automating Architecture Alternative Trades,</i> <b>Marshal Blessing, Raytheon</b></p>