

Agenda

Day 1 | Wednesday, May 3, 2023

8:30 AM	Registration, Coffee & Breakfast – Sponsored by AMD				
9:15 AM	Welcome & Opening Remarks Shashank Aggarwal, <i>Dassault Systèmes</i>				
9:25 AM	SIMULIA Brand Update Mark Bohm, <i>Dassault Systèmes</i>				
9:55 AM	Keynote Presentation: Simulations for Electrified System Engineering Mikhail (Misha) Ejakov, <i>Ford Motor Co.</i>				
10:25 AM	Morning Break – Sponsored by AMD				
10:55 AM	Keynote Presentation: New Requirements for Multibody Tools in a Fully Virtual Development Process Daniel Vilela, <i>General Motors</i>				
11:25 AM	SIMULIA Presentation: The Power of Unified Modeling and Simulation in Revolutionizing Product Development From Concept to Detailed Design: Success Stories and Future Directions Matthew Pais, <i>Dassault Systèmes</i>				
11:55 AM	AMD Platinum Sponsor Presentation: Engineering to Advance Sustainability Goals Sid Karkare, <i>AMD</i>				
12:15PM	Lunch – Sponsored by VIAS3D Partner Exhibit Area & Playground Open				
	Track 1 - GOLD Partner Sessions	Track 2 - COPPER Partner Sessions	Track 3 - SILVER Partner Sessions	Track 4 - BRONZE Partner Sessions	Track 5 - GRANITE Partner Sessions
2:10 PM	Improving SIMULIA Abaqus FEA Performance on AMD EPYC Processors, Generation to Generation Oliver Schreiber, <i>AMD</i>	Engineered to Cure – Patient Specific Tibial Implant Design Using Micro-Macro FEA Framework Arindam Chakraborty, <i>VIAS3D</i>	Z-set to Abaqus: Efficient Tools for Advanced Material Modeling, Damage Analysis and Crack Propagation Simulations Nikolay Osipov, <i>Transvalor</i>	Automated Design of Laser Cut Delivery Shafts (Hypotubes) Paul Jermihov, <i>TriMech</i>	Virtual Qualification of the Durability Performance of an Elastomeric Mount William V. Mars, <i>Endurica</i>
	Track 1- GOLD Structures I	Track 2- COPPER Structures II	Track 3- SILVER Structures III	Track 4- BRONZE Fluids/Vibro-Acoustics	Track 5- GRANITE Electromagnetics
2:30 PM	Assessment of Battery Pack Durability Using Accurate Vehicle Loads Saurabh Bahuguna, <i>General Motors</i>	Coupled Acoustic-Structural Analysis of an Intake Silencer for Transmission Loss Assessment Ameer Ambavaram, <i>Mercury Marine</i>	A Method to Calculate Effective Wind Area for Ballasted Roof-Mounted Solar Panels Zheng (James) Peng, <i>FM Global</i>	PowerFLOW Use in Support of Turbofan Fan-Stage Interaction Broadband Noise Prediction Sheryl Grace, <i>Boston University</i>	HPPM Undulators and Septum Magnet Designs, and Ring Magnets' Crosstalk Simulations for the Advanced Photon Source Upgrade (APS-U) Project Using Opera Melike Abliz, <i>Argonne National Lab</i>
3:00 PM	Tire Modeling for a Wheel Impact Simulation John George, <i>Honda Motors</i>	Failure Analysis and Structural Capacity Assessment of Threaded Connectors in Downhole Drilling Hsuan-Yu Chou & Zhenqi Yang, <i>NOV</i>	Simulation, Optimization, and Additive Manufacturing of Novel Material and Structural Systems Using SIMULIA Deepak Kumar Pokkalla, <i>Oak Ridge National Lab</i>	Rear Roof Spoiler Vent Noise: Root-Cause & Solution Strategies Pooyan Razi, <i>General Motors</i>	Using CST to Create Unique Antennas Mark Zakhem, <i>Inovonics</i>
3:30 PM	Afternoon Break – Sponsored by AMD				
	Track 1- GOLD Structures I	Track 2- COPPER Structures II	Track 3- SILVER Structures III	Track 4- BRONZE Fluids/Vibro-Acoustics	Track 5- GRANITE Electromagnetics
4:00 PM	Project Gamma: Generative Design and Analysis of Aerospace Structures Benjamin Gajus, <i>Lockheed Martin</i>	Modeling Viscoelasticity in Threads Using Abaqus CAE Venkat Santhanam, <i>W.L. Gore & Associates</i>	A Fractional Viscoelastic Model of the Axon in Brain White Matter Parameshwaran Pasupathy, <i>Rutgers University</i>	Overview of Vibro-Acoustic Challenges in the Aerospace Industry Mike Yang, <i>ATA Engineering</i>	Overcoming Challenges in EMC Virtual Validation Scott Piper, <i>General Motors</i>
4:30 PM	Using Abaqus to Simulate the Deployment of the Origami-Inspired Starshade George Antoun, <i>ATA Engineering & NASA</i>	Abaqus All-Hexahedral Meshing Requirements for the Nonlinear Analysis of Optimized Parts Featuring Extreme Thickness Variations Reza Taghavi, <i>SIW Corp.</i>	Simulation of Laser Shock Processing on Specimens with Abaqus & fe-safe Software Vignaud Granados Alejo, <i>Polytechnic University of Guanajuato</i>	Full Spectrum Simulation of Vehicle Interior Acoustic Transfer Function (ATF) Using Wave6 Qijun Zhang, Dhana Baladhandapani and Isaac Du, <i>General Motors</i>	Using CST to Pass Physical Tests the First Time Shane Mooney, <i>Kinetic Vision</i>
5:00 PM	Static Seat Comfort DOE Variation Study to Understand the Impact of Seating Adjustment & Occupant Posture on Seat Pressure Distribution Reza Rahmani, <i>General Motors</i>	Finite Element Simulation of the Combined Effects of Creep & Shrinkage in Post-Tensioned Tie Girders Kanchani Basnayake and Upul Attanayake, <i>Western Michigan University</i>	Micro-Scale Modeling to the Dry Mechanical Behavior of Open-Cell Foam with Abaqus Shuoran Du, <i>Procter & Gamble</i>	Aero-Acoustic Simulation of a High-Performance Cooling Module Using PowerFLOW (Presented Remotely) Mohamed Desouky & Rui Cao, <i>Nikola Motor</i>	
5:30 PM	Evening Reception – Sponsored by AMD – & Casino Night				

Register or learn more [here](#).

Agenda

Day 2 | Thursday, May 4, 2023

9:15 AM	Coffee & Breakfast – Sponsored by AMD					
9:45 AM	Welcome Shashank Aggarwal, <i>Dassault Systèmes</i>					
9:55 AM	Keynote Presentation: Subjective Comfort Evaluation Using Simpack Javier Gutiérrez Diez, <i>Applus IDIADA Group</i>					
10:25 AM	SIMULIA Presentation: Machine Learning to Massively Accelerate Nonlinear Design Exploration in Full 3D Victor Oancea, <i>Dassault Systèmes</i>					
10:55 AM	Keynote Presentation: Digital Twins for Composites Manufacturing Developed at the Purdue Dassault Systèmes Center of Excellence Eduardo Barocio, <i>Composites Additive Manufacturing and Simulation Consortium at the Purdue Composites Manufacturing and Simulation Center</i>					
11:25AM	Lunch – Sponsored by HPE/Intel Partner Exhibit Area & Playground Open					
	Track 1- GOLD Partner Sessions	Track 2- COPPER Partner Sessions	Track 3- SILVER Partner Sessions	Track 4- BRONZE Partner Sessions	Track 5- GRANITE Partner Sessions	Track 6-JASPER Partner Sessions
1:05 PM	Optimizing Abaqus Unified FEA Portfolio on the Intel 8400 Series Processors Scott Shaw, <i>Hewlett Packard Enterprise (HPE)</i>	Accelerating the Impact of Abaqus, fe-safe & CST Results Through Rapid Results Processing, Reporting, Sharing, and Interactive 3D Results Reviews Prasad Mandava, <i>VCollab</i>	Usage of NVIDIA GPU Acceleration in 3DEXPERIENCE Ian Pegler, <i>NVIDIA</i>	CFD Analysis of Gearbox Lubrication Using Lattice Boltzmann Solver Tom Feister, <i>TriMech</i>	Air Cooled Heat Exchanger Operating Performance – Improve Fan Cooling Efficiency Using PowerFLOW Murthy Lakshmiraju, <i>VIAS3D</i>	Highly Virtual Prototyping – Device Thermal Performance YushiTan, <i>VIAS3D</i>
1:25 PM	AMD – The Compute Engine that Powers Cloud HPC Rick Knoechel, <i>AMD</i>	TotalCAE HPC Technology Choices for Accelerating the SIMULIA Portfolio Rod Mach, <i>TotalCAE</i>	Lenovo High-Performance Simulation Solutions Optimized for Virtual Twins and Sustainability Andre Gardinalli and Ramesh Joginpalli, <i>Lenovo</i>	Data Driven Design on the 3DEXPERIENCE Platform Manish Barlingay, <i>Inceptra</i>	FEA IRL: 3D Printing Our Solutions on the 3DEXPERIENCE Platform Matt Sherak, <i>GoEngineer</i>	Applications of Virtual Testing in Automotive Industry Following Industry Standards Benjamin Becklynck, <i>Optimec Consultants</i>
	Track 1- GOLD SIMULIA Updates	Track 2- COPPER SIMULIA Updates	Track 3- SILVER SIMULIA Updates	Track 4- BRONZE SIMULIA Updates		
1:45 PM	Structures 2023 Update, Ross McLendon, <i>SIMULIA</i>	Electric Vehicles & Batteries 2023 Update Victor Oancea, <i>SIMULIA</i>	SIMULIA Fluids 2023 Update Eric Grald, <i>SIMULIA</i>	Modeling & Simulation 2023 Update Ramji Kamakoti, <i>SIMULIA</i>		
2:15 PM	HPC 2023 Update Cristian Ianculescu, <i>SIMULIA</i>	SIMULIA Electromagnetics – What’s New in 2023? Frank Scharf, <i>SIMULIA</i>	SIMULIA PowerFLOW Process Automation with the 3DEXPERIENCE Platform, Nicolas Fougere, <i>SIMULIA</i>	Design Exploration 2023 Update Andras Laszloffy, <i>SIMULIA</i>		
2:45 PM	Serious Play with Abaqus Randy Marlow, <i>SIMULIA</i>	Vibro-Acoustics 2023 Update Phil Shorter, <i>SIMULIA</i>	Extending the 3DEXPERIENCE Platform and Other Pre-Processors to Support Advanced Abaqus Features Erik Kane, <i>SIMULIA</i>	Motion Simulation 2023 Update Dennis Gass, <i>SIMULIA</i>		
3:15 PM	Wrap-up, Contests & Adjourn					

Register or learn more [here](#).