

Keynote	PLASVEE® Project
Track 1 - Ballroom B	Vendor Forum
Track 2 - Ballroom C	Breaks/Lunches
Track 3 - Rooms 202 & 203	Special Activities

Agenda

Monday, October 27, 2008

8:00 am - 5:00 pm	Training Course: Finite Element Model Validation, Updating, and Uncertainty Quantification for Linear and Non-linear Models for Aerospace, Civil and Mechanical Engineers (optional)¹ F. Hemez, Los Alamos National Laboratory (LANL)
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Tuesday, October 28, 2008

8:00 am - 5:00 pm	Training Course: Finite Element Model Validation, Updating, and Uncertainty Quantification for Linear and Non-linear Models for Aerospace, Civil and Mechanical Engineers (optional)¹ F. Hemez, Los Alamos National Laboratory (LANL)
1:00 pm - 6:00 pm	Registration

¹ This is an optional training course which requires separate registration.

Wednesday, October 29, 2008

7:00 am - 4:00 pm	Registration			
7:15 am - 8:00 am	Exhibits Open	Light Breakfast		
8:00 am - 8:10 am		Opening of the Conference T. Morris, NAFEMS CEO		
8:15 am - 8:25 am		Welcome to NAFEMS 2020 R. Dreisbach, The Boeing Company and Chairman of NAFEMS NA Steering Committee		
8:30 am - 9:15 am		Keynote Speaker: Pathway to Future CAE Technologies and Their Role in Ambient Intelligent Environments A. Noor, Old Dominion University (Ballroom B and C)		
9:20 am - 10:05 am		Keynote Speaker: Isogeometric Analysis: Progress and Challenges T. Hughes, University of Texas at Austin (Ballroom B and C)		
10:05 am - 10:30 am		Break		
10:30 am - 11:00 am		Expanding Engineering Analysis Tools to Biomedical Applications: Using an Example of Nasal Airflow in Patients with Septal Deviations G. Garcia and J. Kimbell, Hamner Institute of Health Services and B. Barnum and M. Cragun, OSS	Realizing Simulation Data Management Interoperability Across Domains A. Schreiber and P. Downing, Prostep	A Quasi Steady Approach to the Thermal Stress Analysis in a One-Way FSI R. Pillai, D. Diarra, R. Hermanns, K. Lucka and H. Kohne, OWI
11:05 am - 11:35 am		Dynamics of Social Systems - Analysis and Design T. Doherty, Tommy Concepts	The Case for Simulation Lifecycle Management P. Lalor, SIMULIA	A Multiphysics Approach to Tyre Noise Prediction S. Panigrahi, R. Litake and B. Kumar, Cranes Software

11:40 am - 12:10 pm	Failure Analysis of Composite Structures using Multicontinuum Technology: A Mesh Sensitive Study E. Nelson and D. Robbins Jr., Firehole Technologies, Inc.	Future Breakthroughs in Creating, Managing and Analyzing Simulation Data for Near-Real Time Decision Making J. Evans, Engineous	How Modern Software Methodologies and High Performance Computing will Change the Face of Simulation E. Dodd, IBM and J. Lyon, Simudyne
12:10 pm - 1:40 pm	Lunch Break		
1:40 pm - 2:10 pm	Uncertainty Quantification for the Orion Crew Exploration Vehicle Thermal Protection System using Cielo and Dakota J. Schiermeier, Jet Propulsion Laboratory	Simulation and the Creative Process - A New Paradigm U. Schramm, Altair Engineering	Modeling of Materials - Getting to a Smaller Scale R. Yancey, Altair Engineering
2:15 pm - 2:45 pm	Uncertainty Structure Matrix for Models and Simulations L. Green, S. Blattng, M. Hensch, J. Luckring and R. Tripathi, NASA LaRC	Why Design Analysis Works - Confessions of a Former Analysis Snob V. Adams, SolidWorks	Simulation of Particulate Solids Handling and Processing Operations Using the Discrete Element Method R. LaRoche and D. Scharpf, DEM Solutions (USA), Inc.
2:50 pm - 3:20 pm	Hypothesis Testing of Finite Element Models using Load Uncertainty Probability Density Functions J. Sundermeyer, Caterpillar, Inc.	Quality Improvements and their Impact in a Lean CAE "Future World" M. Zebrowski, Ford (Retired)	Fracture, Damage and Progressive Failure Analysis of Composite Materials S. Choudhry, P. Nordlund, and A. Bout, MSC.Software
3:20 pm - 3:45 pm	Break		
3:45 pm - 4:15 pm	Simulation-Supported Decision Making G. Allen, Decision Incite	Drive Product Development with Engineering Intent M. Panthaki, Comet Solutions	Direct Coupled-Field Elements for Multiphysics Simulation S. Scampoli, ANSYS
4:20 pm - 4:50 pm	Stochastic Simulation of Aircraft Cabin Interior Considering Uncertain Load Conditions by Modeling with Random Fields D. Vogt, EADS Innovation Works	Designer Analysis: Utopia or Catastrophe? R. Keene, CATIA Simulation	Efficient Multi-physics Modeling of the Dynamic Response of RF-MEMS Switches J. Bielen, J. Stulemeijer, D. Ganjoo and D. Ostergaard, ANSYS
6:00 pm - 8:00 pm	Networking Reception (Ballroom A)		

Thursday, October 30, 2008

7:00 am - 4:00 pm	Registration			
7:30 am - 8:30 am	Light Breakfast			
8:30 am - 9:15 am	Keynote Speaker: Integrated Computational Materials Engineering M. Boyce, M.I.T. (Ballroom B and C)			
9:20 am - 10:05 am	Keynote Speaker: Hybrid Engineering Enablers: Technology, Process and People Perspective T. Abe, Ford Motor Company (Ballroom B and C)			
10:05 am - 10:30 am	Break			
10:30 am - 11:00 am	Product Performance Simulation in 2020 M. Halpern, Gartner	Unified FEA K. D'Souza, SIMULIA	Fatigue and Fracture Analysis - "On the Fly" E. Punch, Punch Software Solutions	
11:05 am - 11:35 am	The Next Revolution in Simulation J. Leuridan, LMS	Advances in Elements Technology: Solid-Shell Element S. Shah, ANSYS	T-Splines and Isogeometric Analysis: A New Design-Through-Analysis Paradigm M. Scott, University of Texas at Austin	
11:40 am - 12:10 pm	US Navy Validation of Computational Tools to Meet Future Requirements J. Grimsley, US Naval SWC	"Get it Right the First Time" with Simulation-Based Design T. Weninger, ESI Group	Modeling Bolted Connections for Stress Analysis M. Tomlin, SIEMENS	
12:10 pm - 1:30 pm	Lunch Break			
1:30 pm - 2:00 pm	Exhibits Open		Simulation Training Challenges in the 2020 Workplace N. Veikos and P. Barrett, CAE Associates, Inc.	
2:05 pm - 2:35 pm			The Role of Digital Simulation in Developing a PLASVEE® for 2020 R. Dreisbach, L. Krueger, J. Vandeventer, The Boeing Company (Ballrooms B and C)	Case Study: How to Make an Analysis Interface that Both the Novice and the Expert will Use T. Cunningham, Micro Motion, Inc. and D. Hensley, ATA Engineering, Inc.
2:40 pm - 3:10 pm			New Frontiers in CAE Interoperability J. Martin, ITI TranscenData	
3:10 pm - 3:35 pm	Break			
3:35 pm - 4:05 pm	The Role of Digital Simulation in Developing a PLASVEE® for 2020 R. Dreisbach, L. Krueger, J. Vandeventer, The Boeing Company (Ballrooms B and C)		Issues Facing Engineering Simulation: A CAE Providers Perspective D. Conover, ANSYS	
4:10 pm - 4:40 pm			Virtual Prototyping - An Analyst's Dream: Progress Challenges and Future Path to 2020 S. Choudhry, MSC.Software	
5:00 pm - 8:30 pm	Tour of the Center for Advanced Engineering Environments (CAEE) (off-site)			

Friday, October 31, 2008

7:00 am - 4:00 pm	Registration		
7:30 am - 8:30 am	Exhibits Open	Light Breakfast	
8:30 am - 9:15 am		Keynote Speaker: MCAE Opportunities and Markets: A Fresh Look at a Shifting Landscape J. Orr, Cyon Research (Ballrooms B and C)	
9:20 am - 10:05 am		Keynote Speaker: TBA (Ballrooms B and C)	
10:05 am - 10:30 am		Break	
10:30 am - 11:00 am		The Future Directions of Simulation: One Career Person's Vendor-oriented View D. Nagy, CD-adapco and Member of the NAFEMS NA Steering Committee	
11:05 am - 12:35 am		Vendor Forum	

End of Conference