

WWW 2010

NAFEMS
VIRTUAL CONFERENCE
2020 VISION OF ENGINEERING ANALYSIS AND SIMULATION

November 15-16 2010

...hosted by NAFEMS North America

CONFERENCE PRESENTATIONS

Name	Title	Organization	Presentation Title/Topic/Role (panel)
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Conference Chair

Dr. Dennis Nagy	North American Consultant	NAFEMS	Welcome and Introduction to a Virtual Conference
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Keynote Presenters

Prof. J. Tinsley Oden	Associate Vice President for Research; Director, Institute for Computational Engineering & Sciences	University of Texas, Austin	SIMULATION-BASED ENGINEERING: Where Do We Go From Here?
David W. Trop	Deputy Chief Structural Engineer, 787 Program	Boeing	<i>The role of simulation in the Boeing 787 Program</i>
Dr. Jim Wood	Senior Lecturer	University of Strathclyde	A Lifetime Teaching FEA - from Chalk-face to Virtual Reality

Presenters

Dr. Marc Halpern	Research Director, Product Innovation and Engineering	Gartner	From CAE to Systems Simulation
Dr. Roman Petryk	Center for Operational Research and Analysis	Defence Research and Development, Canada	System of Systems Investment Planning
Dr. William Oberkamp	Retired Distinguished Member, Technical Staff	Sandia National Laboratory	<i>Verification, Validation, and Uncertainty Qualification of Simulation Results</i>
Gene Allen	Nuclear Engineer	Naval Surface Warfare Center-Carderock	Simulation-Supported Engineering in the US Navy
Richard Bush	Marketing Director, Digital Lifecycle Simulation	Siemens PLM	Simulation Trends and Customer Imperatives
James Scapa	Founder and CEO	Altair Engineering	The Next Decade - CAE in the Innovative Process
Rushad Mehta	CAE Systems (Dearborn)	Ford Motor Company	Learning from the CAD2crash24 Grand Challenge
Anthony Norton	Executive Director – Global Automotive	Altair Engineering	Learning from the CAD2crash24 Grand Challenge
Dr. Tony Abbey	President	FETraining	<i>Best Practices and Practical Tips for Dynamic Finite Element Analysis</i>
Dr. John Muskivitch	Adjunct Lecturer - Mechanical Engineering Department	Santa Clara University	<i>Best Practices and Practical Tips for Nonlinear Finite Element Analysis</i>
Fred Mendonca	Director, Turbomachinery	CD-adapco	<i>Best Practices and Practical Tips for CFD Meshing (NAFEMS Guidelines preview)</i>
Dr. Leonard Schwer	Founder and President	SE&CS	What is Verification and Validation?
Hubert Lobo	Founder and President	Datapoint Labs and Matereality LLC	Understanding and Coping with Material Modeling Limitations in FEA
Dr. Nam Purush	Principal Analysis Staff/ Modeling and Simulation Technical Fellow	BAE Systems (US Combat Systems)	Military Ground Vehicles Robust Durability Process
Gagan Syal	Group Research and Advanced Engineering	DAIMLER AG	A New Methodology to Describe a Continuous Product Validation Process
Dr. Nawal Prinja	Director	AMEC Nuclear UK	Suitably Qualified and Experienced Personnel (SQEP)
Dr. Bruce Engelmann	Vice President and Chief Technology Officer	Dassault Systemes/SIMULIA	New Technologies and Industry Applications of Co-Simulation and Multiphysics
Brad Holtz	Founder and CEO	CYON Research	Changes in CAD/CAE: An Updated View of CAD/CAE Use
Michelle Boucher	Research Analyst, Product Innovation and Engineering	Aberdeen Group	Using Simulation to Make Better Decisions
Kenneth Amann	Director of Research	CIMdata, Inc.	The Growing Importance of Simulation and Analysis in Product Development
Alexander Karl	RRC Lead Robust Design	Rolls-Royce Jet Engines	<i>Stochastics and Robust Design (Stochastics Working Group)</i>
Luis Del Rio Etayo	Simulation Manager	Ormazabal Corporate Technology	Towards a New Paradigm to Unlock the Potential of Virtual Experimentation.
Laura Michalske	Computer Aided Engineering Manager, Health Care	Procter and Gamble	<i>NAFEMS Simulation Data Management Working Group (SDMWG): SDM White Paper</i>
Randy Cigel		Boeing	<i>SDMWG: SDM Survey Results</i>

SDM Session Panelists

Dr. Keith Meintjes	Research Director - CAE	Collaborative Product Development Associates (CPDA)	Moderator
Dr. Vijay Srinivasan	Chief, Manufacturing Systems Integration Division, Manufacturing Engineering Laboratory	National Institute for Standards and Technology (NIST)	Co-moderator
Laura Michalske, Randy Cigel	(see above)	(see above)	Chairs of SDM WG and sub-groups
Keith Hunten*		Lockheed-Martin Aerospace	Panelist
Dr. Matthias Grau	Key Account Manager Shipbuilding	PROSTEP	Panelist
John Bloomberg		General Electric Aviation	Panelist

*invited, not yet confirmed

NAFEMS 2010 VC - Day 1
Track 1 - Main Event Room

Time (EST)	Actual Time	Presenter's Name	Title	Activities/Notes	Length	Session ID	WEBCASTS
9	:30 :45						
10	:00	Dreisbach/Nagy	NAFEMS Welcome and Conference Overview		15		1 60 minutes
	:15	Prof. J. Tinsley Oden	SIMULATION-BASED ENGINEERING: Where Do We Go From Here?	Keynote 1	45		
10	:30 :45						
11	:00	(Simulia)	New Technologies and Industry Applications of Co-Simulation and Multiphysics	Pres 1	30		2 90 minutes
	:15						
11	:30	Gene Allen	Simulation-Supported Engineering in the US Navy	Pres 2	30		
	:45						
12	:00	G. Sayal	A New Methodology to Describe a Continuous Product Validation Process	Pres 3	30		
	:15						
	:30		(time to visit exhibitors)	Break	30		
	:45						
13	:00	D. Nagy	Acknowledgement of Sponsors/Exhibit Overview		15		3 60 minutes
	:15	David W. Trop	<i>The role of simulation in the Boeing 787 Program</i>	Keynote 2	45		
	:30 :45						
			14:00 - 15:30 Verification, Validation, Qualification Focus Session		90		4 90 minutes
14	:00	Len Schwer	What is Verification and Validation?	Pres 4	30		
	:15						
	:30	Bill Oberkamp	Verification, Validation, and Uncertainty Qualification of Simulation Results	Pres 5	30		
	:45						
15	:00	Dr. Nawal Prinja	Suitably Qualified and Experienced Personnel (SQEP)	Pres 6	30		
	:15						
	:30		(time to visit exhibitors)	Break	15		
			16:00 - 18:00 Industry Analysts Focus Session				5 135 Minutes
16	:00	Brad Holtz	Changes in CAD/CAE: An Updated View of CAD/CAE Use	Pres 7	30		
	:15						
	:30	Marc Halpern	From CAE to Systems Simulation	Pres 8	30		
	:45						
17	:00	Kenneth Amann	The Growing Importance of Simulation and Analysis in Product Development	Pres 9	30		
	:15						
	:30	Michelle Boucher	Using Simulation to Make Better Decisions	Pres 10	30		
	:45						
18	:00	Nagy	Wrap-up of Day 1/Overview of Day 2		15		

NAFEMS 2010 VC - Day 1
Track 2 - Scheduled Chat Sessions

Time (EST)	Title	Length	Session ID
9			
10			
11	Scheduled Chat Session w Keynote 1 (sponsor: Altair)	30	C-1
12			
	Scheduled Chat Session with Pres 1,2,3	45	C-2
13			
14	Scheduled Chat Sessionw Keynote 2 (sponsor: Siemens)	30	C-3
15			
16	Scheduled Chat Session with Pres 4,5,6	45	C-4
17			
18	Scheduled Chat Session with Industry Analysts	30	C-5

NAFEMS 2010 VC - Day 2

Track 1 - Main Event Room

Time (EST)	Actual Time	Presenter's Name	Title	Activities/Notes	Length	Session ID	WEBCASTS	
9	:30 :45							
10	:00	Platinum 2: 10:00 - 10:30 Richard Bush	Simulation Trends and Customer Imperatives	Pres 11	30		6	
	:30	Platinum 3: 10:30 - 11:00 Jim Scapa	The Next Decade - CAE in the Innovative Process	Pres 12	30		60 minutes	
11	:00	11:00 - 12:30 Laura Michalske	Simulation Data Management (SDM) Focus Session: Report from NAFEMS SDM Working Group: White Paper	Pres 13	15		7	
	:15	11:15 - 11:30 Randy Cigel	Report from NAFEMS SDM Working Group: Survey	Pres 14	15			
	:30 :45	11:30 - 12:30 Moderators: Panelists:	SDM Panel Discussion Keith Meintjes, Vijay Srinivasan Laura Michalske, Randy Cigel, John Bloomberg, Mattias Grau, Keith Hunten (*) (including audience Q&A by chat: 15 min.)		60			90 minutes
	:30 :45	12:30 - 13:00 Hubert Lobo	Understanding and Coping with Material Modeling Limitations in FEA	Pres 15	30		8	
13	:00 :15	13:00-13:30 Rushad Mehta (Ford), Anthony Norton (Altair)	Learning from the CAD2crash24 Grand Challenge	Pres 16	30		60 minutes	
	:30 :45	13:30 - 14:15 Dr. Jim Wood	A Lifetime Teaching FEA - from Chalk-face to Virtual Reality	Keynote 3	45		9	
14	:00 :15	14:15 - 14:30	Visit Exhibitors	BREAK	15		60 minutes	
	:30	14:30 - 16:00	"Best Practices and Practical CAE Tips" Focus Session:				10	
	:45	14:30 - 15:00 Tony Abbey	Practical Tips for Dynamic Finite Element Analysis	Pres 17	30			
15	:00	15:00 - 15:30 Fred Mendonca	Practical Tips for CFD Meshing (NAFEMS Guidelines preview)	Pres 18	30			90 minutes
	:00 :15	15:30 - 16:00 John Muskivitch	Practical Tips for Nonlinear Finite Element Analysis	Pres 19	30			
16	:00 :15	Platinum 4 16:00 - 16:30 (ANSYS)	TBA	Pres 20	30		11	
	:30 :45	16:30 - 17:00 Nam Purish	Military Ground Vehicles Robust Durability Process	Pres 21	30		60 minutes	
17	:00 :15	17:00 - 17:30 Alexander Karl	Stochastics and Robust Design (Stochastics Working Group)	Pres 22	30		12	
	:30 :45	17:30 - 18:00 Luis Del Rio Etayo	Towards a New Paradigm to Unlock the Potential of Virtual Experimentation.	Pres 23	30			
18	:00 :15	18:00 - 18:30 Roman Petryk	System of Systems Investment Planning	Pres 24	30			90 minutes
18	:30	18:30	END of CONFERENCE					

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NAFEMS 2010 VC - Day 2
Track 2 - Scheduled Chat Sessions

Time	Title	Length	Session ID
10			
11	Scheduled Chat Session with Presenters 10, 11, 12	30	
12			
13	Scheduled Chat Session with SDM Focus Session Participants (13, 14, Panel)	30	
14	Scheduled Chat Session Keynote 3 (Sponsor: DS/Simulia)	15	
15			
16	Scheduled Chat Session with Best Practices Focus Session Presenters (17, 18, 19)	30	
17	Scheduled Chat Session with Presenters 20, 21	30	
18	Scheduled Session with Presenters 22, 23	30	
19			