

MSC Software's 2003 Virtual Product Development Conference											
Sunday, October 12, 2003											
5:00 PM	to	6:30 PM	Welcome Reception in the Rotunda								
Monday, October 13, 2003											
Keynote Speakers											
Hubbard Ballroom											
8:00 AM	Welcome										
8:00 AM	to	8:30 AM	Frank Perna, Jr., Chairman & CEO, MSC Software Corporation								
8:30 AM	to	9:00 AM	Dr. Dale Karolak, Vice President, Product Development, Intier Automotive								
9:00 AM	to	9:30 AM	Kevin Fowler, Director of Process Integration, 7E7 Program, Boeing Commercial Airplanes								
9:30 AM	to	10:00 AM	Phil Martens, Vice President, Product Creation, North America, Ford Motor Company								
10:00 AM	to	10:30 AM	Break								
Presentation Series											
Technology Session		Technology Session		Management Session		Special Interest Group					
Brian Cheung		Claus Hoff		Pat McNally		Gabriele Ferrarotti					
Hubbard Ballroom		Desoto A & B		Marquis Ballroom		Stanley Steamer Room					
10:30 AM	to	12:15 PM	Durability & Fatigue		Structures		Management Session		Noise, Vibration & Acoustics		
7	Virtual Key Life Tests Using CAE Technologies for Instrument Panels - Visteon Corporation	4	Correlation of a Dynamic MSC.Patran/MSC.Nastran Finite Element Model to Modal Test Data with Spectral Dynamics STAR - Raytheon Technical Services Company	2	Implementation of a MSC.Linux Computing Cluster at the International Truck Development and Technology Center - International Truck and Engine Corporation	Presentations from MSC Software Industry and Product Managers will explore the vision and roadmap for Noise, Vibration & Acoustics. Presentation is followed by roundtable discussion.					
33	Virtual Testing with a Virtual Spindle Coupled Road Simulator and Remote Parameter Control - Hyundai Motor Corporation / MTS Systems Corporation	8	Optimization of Cylindrical Shells Using MSC.Nastran - Kettering University	84	DIVE™ Design Intelligently in a Virtual Environment - TI Auto						
22	Virtual Prototyping of Truck Chassis for Durability Using Multi-body Simulation in MSC.ADAMS - Eicher Engineering Solutions	16	Modeling Tensile Breaking Limits and Elastic Perfectly Plastic Tension Limits in MSC.Nastran Linear Statics - MSC Software Corporation	63	Virtual Product Development Success Roadmap VPDMM - MSC Software Corporation						
24	Integrated Data Acquisition Analysis and Product Sign Off - nCode International Ltd.	17	On the Enhancement of Productivity for the Analysis of Pipelines Using Parametric Model Generation and Proprietary MSC.Patran User Interface - PETROBRAS/CENPES	65	Lessons Learned Along the Way: Implementing VPD Processes - Changing Technology and Culture - Cooper Tire & Rubber Company						
		23	Optimization Applications in Vehicle Development by MSC.Nastran Sol200 - Ford Motor Company								
12:15 PM	to	1:30 PM	Lunch								
12:45 PM	to	1:30 PM							Special Interest Group		
						Casey Heydari		Stanley Steamer Room			
						Safety & Crash Worthiness		Presentations from MSC Software Industry and Product Managers will explore the vision and roadmap for Safety & Crash Worthiness. Presentation is followed by roundtable discussion.			
1:30 PM	to	3:15 PM	Technology Session		Technology Session		Management Session		Special Interest Group		
			Joel Tollefson		Claus Hoff		Pat McNally		Christoph Ortmann		
			Hubbard Ballroom		Desoto A & B		Marquis Ballroom		Stanley Steamer Room		
			Control, System Simulation		Structures		Management Session		Vehicle Dynamics/Chassis Suspension & Tire		
10	Exploring Design and Control of Mechanical Systems Using Software Prototypes - University of Maryland, Eastern Shore	18	Parametric Model Generation of 3D Piles for Anchoring System Design Using MSC.Patran and a Proprietary Preference for AEPEC3D Solver - PETROBRAS/CENPES	60	Improving Derivative Vehicle Development with Simulation: A Value Proposition - Nevada Automotive Test Center	Presentations from MSC Software Industry and Product Managers will explore the vision and roadmap for Vehicle Dynamics/Chassis Suspension & Tire. Presentation is followed by roundtable discussion.					
13	Alternator Based Crank Modeling for Diesel Engine Locomotive Using MSC.EASY5 - GE Transportation Systems	70	A Practical Global Optimization Procedure - MSC Software Corporation	83	Managing Virtual Product Development Software Resources - MSC Software Corporation						
27	Systematic Design for Electric Power with the MSC.EASY5 Electric Systems Library - Ricardo, Inc.	31	Ease of Preform Design in Forgings - Ohio University/Queen City Forging Company	89	Delphi Automotive Gear Calculation Toolkit - Delphi Corporation						
37	Multi-disciplinary Simulations in an Integrated MSC.EASY5 and MSC.ADAMS Environment - MSC Software Corporation	48	Bulk Metal Forming Simulation Using MSC.SuperForm - MSC Software Corporation	72	Simulation Data Management in Automotive - MSC Software Corporation						
44	Automatic Modeling and Human Assisted Evaluation of "Reconfigurable Machine Tool" Configurations - Ryerson University	38	Numerical Evaluation of the Errors Introduced Through the Use of the Pressure Factoring Method and Comparison with the Aerodynamic Derivatives Factoring Method for the MSC.Nastran DLM - Precision Engineering								
3:15 PM	to	3:45 PM	Break								
3:45 PM	to	5:15 PM	Technology Session		Technology Session		Technology Session		Special Interest Group		
			Joel Tollefson		Claus Hoff		Gabriele Ferrarotti		Arthur Fairfull		
			Hubbard Ballroom		Desoto A & B		Marquis Ballroom		Stanley Steamer Room		
			Control, System Simulation		Structures		Vibration & Acoustics		Process Automation & Simulation Data Management		
85	Gaining Insight into Designs with MSC.EASY5 and MSC.ADAMS - MSC Software Corporation	26	FEA Simulation of Drive Shaft Fabrication for Rotational Atherectomy Devices - Cardiovascular Systems/MSC Software Corporation	79	Acoustic Analysis and Test Correlation of Membrane Reflector - Lockheed Martin	Presentations from MSC Software Industry and Product Managers will explore the vision and roadmap for Process Automation & Simulation Data Management. Presentation is followed by roundtable discussion.					
55	Predicting Hydraulic Pressure Spikes with MSC.EASY5 - Boeing Phantom Works	34	Ongoing Visualization and Meshing Projects for MSC Software Products - Computational Engineering International	5	Modeling Frequency-Dependent Stiffness and Damping in Rubber Bushings with Fractional Derivatives - ArvinMeritor, Inc.						
56	Development of a Diagram-Based Optimal Flight Control Design Environment for New Commercial Aircraft Design Using MSC.EASY5 - The Boeing Company	36	Pre-processing complex geometric composite sandwich structure using MSC.Patran: Comanche Endplates Detailed FEM - The Boeing Company / MSC Software Corporation	14	Transient Analytical Tool Development for Hybrid Powertrain NVH Using MSC.ADAMS - Ford Motor Company						
62	MSC.EASY5 Simulation of a Pneumatic Valve Actuation System for Internal Combustion Engines - Ricardo, Inc.	39	A General Aerodynamic Derivatives Factoring Method for the MSC.Nastran DLM Capable of Controlling all Lifting Surfaces Aerodynamic Forces and Moments, Including all Interference Effects - Precision Engineering	29	A Hybrid FEA Formulation for Mid-Frequency Vibrations Combining MSC.Nastran and Energy FEA - University of Michigan						
After Hours											
5:00 PM	to	7:00 PM	Customer Spotlight - "40 Years of Innovation" Reception and Technology Showcase								

Tuesday, October 14, 2003

7:00 AM	to	8:00 AM		Breakfast and Learn	Breakfast and Learn
				MSC.Nastran	MSC.Marc
				Claus Hoff	Ted Wertheimer
				Desoto A & B	Marquis Ballroom

Keynote Speakers, Hubbard Ballroom

8:00 AM	to	8:30 AM	Bob Ryan, Executive Vice President, Product Division, MSC Software Corporation
8:30 AM	to	9:00 AM	Dennis Wend, Director of the National Automotive Center (NAC) and Executive Director for Technology Transfer at the U.S. Army Tank Automotive Research Development and Engineering Center (TARDEC), U.S. Army Tank-automotive and Armaments Command (TACOM)
9:00 AM	to	9:30 AM	Dr. Ahmed Noor, Director, Center for Advanced Engineering Environments, NASA Langley Research Center
9:30 AM	to	10:00 AM	Chris Theodore, Vice President, Advanced Product Creation, Ford Motor Company
10:00 AM	to	10:30 AM	Break

Presentation Series

10:30 AM	to	12:15 PM	Technology Session	Technology Session	Technology Session	Special Interest Group
			Brian Cheung	Gabriele Ferrarotti	Lisa Schutte	Al Robertson
			Hubbard Ballroom	Desoto A & B	Marquis Ballroom	Stanley Steamer Room
			Durability & Fatigue	Vibration & Acoustics	Multibody Dynamics	Vehicle - Structure/Body
			35 Fatigue and Crack Growth Prediction Using FEM Data - Computational Mechanics - BEASY, Ltd.	30 Validation of the Energy FEA for High Frequency Vibrations Through Comparison with Dense MSC.Nastran Models - University of Michigan	6 Video Correlation and Verification of MSC.ADAMS Models - Ford Motor Company/Altair Engineering	Presentations from MSC Software Industry and Product Managers will explore the vision and roadmap for Vehicle - Structure/Body. Presentation is followed by roundtable discussion.
			49 A New Tire Model for Road Loads Simulation Process Overview - Ford Motor Company/MSO Software Corporation	42 Assessing How Vehicle Greenhouse Design Affects Vibrational Performance - General Motors	9 Co-Simulation of Fluid Slosh Using MSC.ADAMS - Southwest Research Institute/MSO Software Corporation	
			50 Road Loads Prediction in the Vehicle Durability Process - DaimlerChrysler Corporation/MSO Software Corporation	57 NVH Optimization Using MSC.Nastran - MSO Software Corporation	11 Suspension System Analysis and Performance Optimization Using ADAMS/Pre (ADAMS/Chassis) - ArvinMeritor, Inc.	
			76 Advanced Crankshaft Durability Simulation Using ADAMS/Engine Powered by FEV - FEV Motorentechnik GmbH/MSO Software Corporation	77 Trimmed Body Modelling Using MSC.Acrtran and MSC.Nastran - Free Field Technologies / General Motors	19 Improving DoE Efficiency and Output - Newman Haas Racing	

12:15 PM to 1:45 PM Lunch

12:45 PM	to	1:45 PM		Special Interest Group
				Christoph Ortmann
				Stanley Steamer Room
				Powertrain
				Presentations from MSC Software Industry and Product Managers will explore the vision and roadmap for Powertrain. Presentation is followed by roundtable discussion.

1:45 PM to 3:15 PM

1:45 PM	to	3:15 PM	Technology Session	Technology Session	Technology Session	Special Interest Group
			Tom Phillips	Sam Lu	Lisa Schutte	Brian Cheung
			Hubbard Ballroom	Desoto A & B	Marquis Ballroom	Stanley Steamer Room
			Process Methods	Structures	Multibody Dynamics	Loads, Durability & Fatigue
			71 Virtual Verification - Delivering the Fast Track Ford GT Program - Mayflower Vehicle Systems, Inc.	52 Adaptive Quadrilateral Refinement Considering Multiple Quantities of Interest Using MSC.Nastran - General Motors	25 Addressing Uncertainty in ADAMS/Car Models by Following a Stochastic Analysis Approach - Land Mobility Technologies Ltd.	Presentations from MSC Software Industry and Product Managers will explore the vision and roadmap for Loads, Durability & Fatigue. Presentation is followed by roundtable discussion.
			40 Reuse of Legacy Data for Vehicle Support Within the US Army - US Army	54 A FORM Structural Reliability Analysis of Stochastic Structures Performed Using MSC.Optimization Module - Denel Aviation, South Africa	28 International Space Station Mechanism Contact Simulation - The Boeing Company	
			69 A Collaborative Modeling & Simulation Infrastructure - Draper Labs	61 World Trade Center: Analysis Using MSC.Dytran Software and Lessons Learned - University of California Berkeley / MSO Software Corporation	1 The Inclusion of Thermal Deformation in Flexible Body Models Through the Use of Modal Forces - Bosch Automotive Chassis	
			67 Acceleration Toward Zero Prototype Product Development - Radian, Inc.	78 Analysis of Car-Bomb Effects on Buildings Using MSC.Dytran Software and Protective Measures - University of California Berkeley / MSO Software Corporation	64 Design of Parallel Kinematic Systems Using the Planar Enveloping Algorithm and MSC.ADAMS - MSO Software Corporation	
			91 High Confidence Analysis through Process Automation - General Motors	92 SMS - A Fast Eigenvalue Analysis Add-on for MSC.Nastran - Vanderplaats R&D, Inc.		

3:15 PM to 3:45 PM Break

3:45 PM	to	5:15 PM	Technology Session	Technology Session	Technology Session	Special Interest Group
			Tom Phillips	Sam Lu	Lisa Schutte	Joel Tollefson
			Hubbard Ballroom	Desoto A & B	Marquis Ballroom	Stanley Steamer Room
			Process Methods	Structures	Multibody Dynamics	Mechatronics, Systems & Controls
			68 Accelerating Product Innovation with MSC Software and CATIA V5 - GID Development Corporation	74 Shape Memory Alloy Hybrid Composites (SMAHC) Analysis in MSC.Nastran - NASA Langley/MSO Software Corporation	51 Crash and Occupant Simulation Using ADAMS/View & ADAMS/Figure - Tec-Masters, Inc.	Presentations from MSC Software Industry and Product Managers will explore the vision and roadmap for Mechatronics, Systems & Controls. Presentation is followed by roundtable discussion.
			86 Integrating Physical Test & Mechanical Simulation for Accelerated Product Development - National Instruments	75 A Modern Method for Predicting the Onset of Widespread Fatigue Failure in Aircraft Structure - New Piper Aircraft Incorporated	58 A Biomechanical Model for Studying Total Hip Replacement Performance Using BRG.LifeMOD and MSC.ADAMS - Biomechanics Research Group, Inc.	
			32 An Essential Link in the Virtual Product Development Cycle - ITI TranscenData	87 Analysis and Design of a Composite Intensive Body-in-White Structure - Engenuity Ltd.		
			73 MSC.SimDesigner V5i - Product Strategy and Direction - MSO Software Corporation	81 Thermal Decomposition Analysis of Rocket Motors and Other Thermal Protection Systems Using MSC.Marc-ATAS - Snecma Propulsion Systems/MSO Software Corporation	90 MSC.Nastran-MSO Software Corporation Integration - MSO Software Corporation	

After Hours

5:00 PM	to	10:00 PM	Cocktails & Technology Showcase (5pm-6pm), Customer Recognition Dinner (6pm-8pm) and Monte Carlo Casino Night (8pm-10pm)
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Wednesday, October 15, 2003			
7:30 AM	to	8:30 AM	
		Breakfast and Learn	Breakfast and Learn
		MSC.ADAMS	MSC.Patran
		Lisa Schutte	Sam Lu
		Desoto A & B	Marquis Ballroom
Keynotes - Marquis Ballroom			
8:30 AM	to	9:15 AM	Doug Peterson, Modelers and Vertical Applications Vice President, MSC Software Corporation
9:15 AM	to	10:00 AM	Reza Sadeghi, Solver Development Vice President, MSC Software Corporation
10:00 AM	to	10:30 AM	Break
Post Conference Sessions			
10:30 AM	to	12:00 PM	
		MSC.Marc Short Course	MSC.Nastran 2004 Technical Seminar
		Ted Wertheimer	John Lee
		Rolls Royce Room	Desoto A & B
12:00 PM	to	1:00 PM	Lunch
1:00 PM	to	2:30 PM	MSC.Marc Short Course
2:30 PM	to	3:00 PM	Break
3:00 PM	to	4:30 PM	MSC.Marc Short Course
Thursday, October 16, 2003			
			Rolls Royce Room
8:30 AM	to	10:00 AM	MSC.Nastran 2004 Technical Seminar
10:00 AM	to	10:30 AM	Break
10:30 AM	to	4:30 PM	MSC.Nastran 2004 Technical Seminar