

Day 1 (Monday, June 26)

9:00 - 10:00					Registration for the Academic Day
10:00 - 12:00					<ul style="list-style-type: none"> Welcome Overview Academic Program New in HyperWorks & solidThinking! <ul style="list-style-type: none"> sT Demo – Inspire Analysis & Optimization Compose, Activate, Embed <p><i>Designing a Lightweight Vehicle Door Using a Load Path Optimization as a Basis for a Fiber Placement Technology</i> L. Bratge1,2, M. Fleischmann1,2, J. Kaufmann1, H. Cebulla1, A. Spickenheuer3, 1Chemnitz University of Technology, 2Fortis Saxonia e.V.; 3IPF Dresden, Dresden, Germany</p> <p><i>Calculation of the Sound Radiation of Gearboxes</i> Denis Werner, UAS Ulm, Germany</p> <p><i>Simulation of the Self-loosening of Bolted Connections with OptiStruct</i> Prof. Dr. Michael Winkler, UAS Ravensburg-Weingarten, Germany</p>
12:00 - 13:00	Lunch & Registration for the Sessions "Learn from the industry Leaders"				Lunch break
	Learn from Industry Leaders			Academic Day	
	<p>Session 1: Maximizing Performance and Efficiency of Industrial Machinery Session Lead: Michael Arold, Altair</p> <p><i>Introduction: Efficient development of industrial machinery</i> Michael Arold, Altair</p> <p><i>Lightweight Design in General Machinery and Plant Engineering: Challenges, Benefits and Examples</i> Dr. Christoph Birenbaum, Fraunhofer IP Stuttgart</p> <p><i>Efficient Product Development through Integrated Simulation of Mechatronic System</i> Benjamin Leblanc, Altair</p> <p><i>Maintaining Industry Leading Reliability of Manufacturing Robots Using Innovative Simulation Methods</i> Oscar Monje, ABB</p>	<p>Session 2: Design for 3D Printing : Adding Value with Bionic Design & Simulation Session Lead: Mirko Bromberger, Altair</p> <p><i>Design for AM - Introduction</i> Mirko Bromberger, Altair</p> <p><i>Topology Optimization for Additive Manufacturing Considering Support Free Printing Requirements</i> Dr. Ming Zhou, Altair</p> <p><i>Design to Cast for Additive Manufacturing. Optimizing Added Value on the Whole Process Chain of AM</i> Alejandro Cervantes Herrera, EOS GmbH</p> <p><i>Structural and Thermal Optimized Injection Molding Tool - From Simulation to Real Application</i> Helmut Ridder, Protiq</p>	<p>Session 3: How to Implement an Efficient Design Strategy for your Electrical Device? Session Lead: Dr. Markus Schick</p> <p><i>How Simulation Helps to Efficiently Design Better Electrical Devices</i> Dr. Markus Schick, Altair</p> <p><i>Electric Motor Design for E-vehicles - System View, Specification and Choice of Motor Type</i> Andrew Dyer, Altair</p> <p><i>Pre-design of the Motor Type Chosen Using FluxMotor</i> Fabrice Marion, Altair</p>	<p>Session 4: Next Generation Math & Systems Tools for Efficient Model Based Development Session Lead: Dr. Michael Hoffmann</p> <p><i>Altair's Portfolio for Model Based Development Model Based Development of Mechatronic Products</i> Dr. Michael Hoffmann, Altair</p> <p><i>solidThinking Compose: A Multi-Language Math Environment</i> Franck Delcroix, Altair</p> <p><i>solidThinking Activate: A System Simulation Platform</i> Ramine Nikoukhah, Altair</p> <p><i>Linking System Requirements with Product Performance</i> Carlo Damiani, Altair on behalf of Tom Tecco, XLDyn</p>	<p>Academic Day: Altair presenting the Academic Program, the Altair Partner Alliance and HyperWorks for Academic Users & Customer Presentations</p> <p>Academic Day: Altair presenting the Academic Program, the Altair Partner Alliance and HyperWorks for Academic Users & Customer Presentations (moderation: Myriam Mouya Altair)</p> <p>Presentations from:</p> <ul style="list-style-type: none"> Chassisim - ChassisSim Compoenering - ESAComp Fluidon – DSH+ Magna – FEMFAT MERC - AFDEX NovaCast – NovaFlow & Solid <p><i>New in HyperWorks & solidThinking</i> • HyperWorks, Altair</p> <p><i>Announcement Poster Session and Poster Award, Altair</i></p>
13:00 - 15:00					
15:00 - 15:30	Coffee Break				
15:30 - 17:00	<p><i>Analyzing and Improving General Machinery With Multibody Simulation</i> Rajiv Rampalli, Altair</p> <p><i>Improving Fatigue life of Tooling Machines through Vibration Reduction with Discrete Models</i> Dr.-Ing. Sven Herold, Fraunhofer Institut Darmstadt</p> <p><i>Live demo: SolidThinking Tools for Optimization and the Way to Serial Production</i> Felix Radisch, solidThinking</p>	<p><i>Adding Value with 3D Printing – Requirements for User, Design and Simulation</i> Marten Canisius, Laser Zentrum Nord</p> <p><i>Closing the Gap in the Design to Additive Manufacturing Chain by Numerical Tools</i> Nils Keller, Additive Works GmbH</p> <p><i>More than 3D Printing - Additive Manufacturing on the Way to Serial Production</i> Joachim Zettler, Airbus APWorks</p>	<p><i>Refined electromagnetic design and optimisation of the machine</i> Cyril Favre, Altair</p> <p><i>Coupled thermal-electromagnetic analysis taking into account temperature effects</i> Cyril Favre, Altair</p> <p><i>Noise Reduction of the Motor Performing NVH Analysis</i> Yassine Salhi, Altair</p> <p><i>Designing the Motor Control</i> Pulle, Emsynergie</p> <p><i>Conclusion</i> Vincent Leconte, Altair</p>	<p>Model Based Development Case Studies</p> <p><i>Moving from Analog to Digital Power Design</i> Anthony Boon, CEG Elettronica</p> <p><i>Acoustic Optimization of Mufflers Using 1D-System Simulation</i> KV Manoj, Altair</p> <p><i>System Simulation Models for E-Mobility</i> Andrew Dyer, Altair</p> <p><i>System Simulation Models Supporting the Design of a Coffee Machine</i> Livio Mariano, Altair</p>	<p><i>Optimization Process for Flexible Structures with OptiStruct</i> Martin Noack, Brandenburg University of Technology Cottbus-Senftenberg, Germany</p> <p><i>Investigation of Diffuse Axonal Injury Mechanism via Finite Element Simulation of in Vivo Experiments</i> Dr. Daniel Baumgartner, University of Strasbourg, France</p> <p><i>Penetrating Impact using Smooth Particles Hydrodynamics. Application to Impact Biomechanics</i> Dr. Sebastien Roth, University of Technology of Belfort-Montbeliard, France</p> <p><i>From research to industry via Radioss numerical simulation of laser shock experiments</i> Dr. Michel BOUSTIE, SIMCHOC, France</p> <p><i>Use of Simulation Tools in Additive Manufacturing Processes for Multiaxial, High Dynamically Loaded Structural Spare Part</i> Nils Buschhorn, Karsten Hilbert (KIMA); Maximilian Ley (KIMA); Nicole Stephan (KIMA); Constantin Deschner (WIWeb - Wehrwissenschaftliches Institut für Werk- und Betriebsstoffe); Dr. Matthias Bleckmann (WIWeb) TU Kaiserslautern, Germany</p> <p><i>Integrated Control, MBS and FEM Simulation on an Example of a Robot Arm using CAE Tools from Altair</i> Mekonnen Tesfay Tesfu, DHBW-Mosbach, Germany</p> <p><i>Experience of the first year solidThinking Inspire using in educational process</i> , Professor Petr Rogov , Nizhny Novgorod State Technical University, Russia</p> <p>End at 18:00</p>
18:00 - 21:00	Exhibition opening & Welcome Reception, opportunity to explore APA etc., Executive Dinner Bus leaves at 18:30				

Day 2 (Tuesday, June 27)

08:00 - 09:00	Registration	
09:00 - 10:30	Dr. Pietro Cervellera, Managing Director CEE, Altair	Conference Opening and Welcome
	James Scapa, CEO & President, Altair	Company Vision
	Dr. Uwe Schramm, CTO, Altair	Altair Technology Vision
10:30 - 11:00	Coffee Break	
11:00 - 12:30	Dominique Moreau, Head of Airframe Technical Authority, Airbus	When Simulation Turns into Reality
	Kai Thräne, Manager Weight & Balance Research & Development, Airbus Helicopter	Industry 4.0 – How Digitalization makes Weight & Balance Process more Agile and Connected
	Fabian Schmitt, CTO, Streetscooter	Realizing Electric Mobility Today
12:30 - 13:30	Lunch Break	
13:30 - 15:15	Intel + HPE	Platinum Sponsor Keynote
	Gael Salles, Director Computer Aided Product Engineering Technology, Schneider Electric	The Secret Life of Models
	Yoram Malka, Head Mechanical Engineering Department, Israel Aerospace Industry	To the Moon with AM – Optimization, Space and Everything in Between
	Anthony Poncet, Incubator powertrain Manager, Renault Trucks	Lighter and More Compact Engines with Additive Manufacturing
15:15 - 15:45	Coffee Break	
15:45 - 17:45	Iain Percy, Team Manager & Aurélien Miller, Engineer, Artemis	Design the Difference: Artemis Racing's use of Simulation Driven Design Technology in Pursuit of the 2017 America's Cup
	Dr. Henning Holzmann, Director GME Vehicle CAE & Dr. Boris Künkler, Supervisor Body CAE & Optimization, Adam Opel AG	Vehicle Concept and Structure of the new Opel Ampera-e
	Dr. Norbert Dölle, Head of Simulation Structure, NVH, Daimler	Lightweight Design and Concept Development for E-Mobility
17:45 - 18:15	Exhibition, HyperWorks Sneak Preview	
18:30 - 19:00	Bus to evening event	
19:00 - 23:00	Hockenheimring: Tour - Dinner - Race Simulation with Award	

Day 3 (Wednesday, June 28)

08:00 - 09:00	Registration					
09:00 - 10:20	Jeff Brennan, CMO, Altair The AltairPartner Alliance					
	James Dagg, CTO, Altair User Experience: Demonstration of HyperWorks Next Generation to Maximize Multidisciplinary Productivity					
	Dr. Philipp Berendes, Specialist Conceptual Lightweight Design, Porsche - Lightweight Design at Porsche					
10:20 - 10:50	Coffee Break					
10:50 - 12:50	Tech 1 Optimization in Car Design	Tech 2 NVH & Acoustics	Tech 3 Structures & Optimization	Tech 4 Motion & Durability	Tech 5 Crash & Drop test	Tech 6 Electromagnetics
	Optimization Driven Engineering - Strategic Application of Optimization Methods Johannes Siegmann, Adam Opel	Optimization of Drivetrain Components Regarding their Transmission Behavior of Structure-borne Sound Christian Vogl, BMW	A Rocker Arm's Diet - How to Increase Durability and Stiffness of an Amazone Agricultural Machine Part while Reducing Weight Altair on behalf of Amazone	Optimising Race Car and Road Car Performance Around the Hockenheimring Danny Nowlan, ChassisSim Technologies	Crash Tests in the Rail Industry with RADIOSS Dominique le Corre, Alstom	Enrich & Extend Flux Usage through Native Coupling Benjamin Boulbene, Chiatek
	Casting Weight Reduction by Die Design Topology Optimization Kadir Akcan, Ford Otosan A.Ş	Advanced Engineering Processes for Vehicle Sound and Vibration Quality Targets Finn Kryger Nielsen, Bruel & Kjaer	Simplifying a Full Vehicle Model for FE-analysis Stefan Scheiblhofer, LKR Leichtmetallkompetenzzentrum Ranshofen GmbH	Development of a Virtual Mobile Crane Model Using Flexible Multi-body Analysis and 1D System Simulation Krzysztof Swidergal, Tadano Faun GmbH	Drop Simulation of Liquid Filled Plastic Bottles Using Rate Dependent Material Properties Oswald Valtiner, Alpla	Coexistence of SDARS and 4G; Cancel Structures to Maintain Roundness of Radiation Pattern Peter Riedhofer, Hirschmann
	Application of Optimization Solutions in the Car Project Development Aleksandra Vikhko, Avtovaz	Finite Element Modelling and Validation of an Angle Drive Bracket for NVH Consideration Muslum Yaman, Anadolu Isuzu	Concept for Optimizing Large Structures with Regards to Efficient use of Build Volume of AM Metal Machines Michael Ferrari, Ruag Space	Advanced Tire Modeling from Multi Body Dynamics to Linearization of the Rotating Tire Axel Gallrein, Fraunhofer ITWM	Prescribed Structure Motion Program for Safety Simulation in Side Impact Load Arnaud Malak, CTSim	From Pure Automotive Antenna Evaluation to Real and Virtual Drive Testing Thomas Lanke, Kathrein
	Multi-Model Optimization for a Non-static Loadcase Philipp Frank, Volkswagen Osnabrück	Dynamic Test and Correlation of an Automotive Suspension Alessandro Ferraris, Beond	Application of Lattice Structure Optimization to PolyJet-3D-Printing Julian Gauder, Rheinische Fachhochschule Köln GmbH	Validation of Operation of a Hydraulic Bascule Bridge Ronald Kett, Fluidon GmbH	Translation of a Complete Crash Model of a Metro from LS-Dyna to RADIOSS Mikel Echeverria Jaurrieta, Meletea	Characteristic Mode Analysis for EMC Susceptibility Tests in an Aerospace Context Frank Gronwald, University Siegen
12:50 - 13:50	Lunch & Exhibition					
13:50 - 15:50	Tech 1 Optimization in Car Design	Tech 2 NVH & Acoustics	Tech 3 Structures & Optimization	Tech 4 Motion & Durability	Tech 7 CAE Processes	Tech 8 Material & CFD
	Mass Optimized Conceptual Design of a Metro Carbody Shell Andreas Ruthmeier, Siemens	Vibro-acoustic Analysis of a Brushless IPM Electric Motor for Automotive Application Luigi Rizzi, SPIN	Strength Verification of Composite Parts in Frequency Response Analysis with SineMOS Antonio Di Carlo, Ruag Space	THOR-50M Model Development in RADIOSS and applications to Ford Occupant Restraint Systems, Ilker Ceylan (Ford Werke GmbH), Ismail Maatouki (Humanetics Europe GmbH)	Automated Classification of Nodal Diametric Modes with Compose Christoph Thiem, Adam Opel	Improving Composite Design and Simulation Efficiency with Multi Scale Designer Jan-Philipp Fuhr, CIKONI
	Topology Optimization of Automotive Components Subjected to Low Cycle Fatigue Andras Tanos, Femak	Multi-physics Noise Optimization in Fuel Pump Permanent Magnet Motor, Diana Mavrudieva Altair France	Numerical Simulation of Bolted Joints - New Challenges for CAE Tools Daniel Koch, Adam Opel	Modal Fatigue Analysis of a Trucks Battery Box with MotionSolve and FEMFAT Axel Werkhausen, Femfat / Magna ESC	Update on Teamcenter SDM at General Motors Thorsten Pohl, Adam Opel	Integrative Simulation of Short-Fiber-Reinforced Engine Compartment Components Wolfgang Korte, PART Engineering / Mann&Hummel
	Design of an Ultra-lightweight Eco-car Wheel Rim through the Sequential use of Topology and Composites Optimization Software Packages Martin Badenhorst, Nelson Mandela University	Pass-by Sound Level Reduction with Sound Package Optimisation Francois-Xavier Bécot, Matelys	Development of the Lightweight Composite Carbon Fibre Bicycle Frame Hynek Purs Advanced Engineering on behalf of Duratec	Fast and Accurate Durability Prediction for Generic Components Burkhard Göttlicher, Faurecia	Integrating Virtual Reality and CAE Simulations with Altair PBSPro on one HPC Cluster Sebastian Treiber, GNS Systems	Optimized CFD Workflows in Formula One Yves-Marie Lefebvre, Intelligent Light
	Automotive Parts and Structures Development Based on Optimization Oleg Klyavin, St. Petersburg Polytechnic University	Rattle Simulation Study of a Train Seat Using SnRD Nicolas Merlette, CEVAA	A Simplified Modelling Approach of Front Car Structures for a Shortened Design Study Robert Szlosarek, Technische Universität Bergakademie Freiberg	Reconstruction Method for Dynamic FE Loads Dr. Stephan Vervoort, Hottinger Baldwin Meßtechnik GmbH	Roadmap Towards Simulation Data Management Albrecht Pfaff, PDTec	Morphing Process without Restrictions for Conjugate Heat Transfer (CHT) Tasks Jessica Jasper, Rheinmetall
15:50 - 16:20	Coffee Break					
16:20 - 16:50	Dr. Lars Fredriksson, Business VP – Simulation Driven Innovation, Altair on behalf of NEVS Design the Difference – Simulation Driven Innovation in Car Body Design					
16:20 - 16:50	Closing remarks					