

DAY 1	WEDNESDAY JUNE 14, 2023		
10:00 - 12:00	Registration Ground Floor Foyer & Welcome Coffee Foyers		
	Session 1 Audimax Moderator: C. Sferidou		
12:00 - 12:05	Conference kick-off - Welcome Chryssa Sferidou, BETA CAE Systems		
12:05 - 12:10	Opening speech Dimitris Angelis, Chairman, BETA CAE Systems		
12:10 - 12:40	The evolution of BETA CAE Systems portfolio in a nutshell Chryssa Sferidou, BETA CAE Systems		
12:40 - 13:00	Building simulation capabilities in Rimac Technology Kristina Šarović, Rimac - Technology		
13:00 - 14:00	Lunch Foyers		
	Session 2 Audimax Moderator: M. Tryfonidis		
14:00 - 14:30	Future directions of BETA CAE Systems product line Dimitrios Siskos, BETA CAE Systems		
14:30 - 15:00	A new user experience in ANSA Dimitrios Zafeiropoulos, BETA CAE Systems		
15:00 - 15:30	Development processes with seamless CAD integration in ANSA and DCM ¹ Bastian Näser*, ² Michael Tryfonidis ¹ BMW Group, ² BETA CAE Systems		
15:30 - 16:00	Coffee Break & Technical discussions Foyers		
	Session 3A Audimax Moderator: N. Drivakos	Session 3B Terra Moderator: G. Korbetis	Session 3C Jupiter Moderator: G. Nikolaidis
16:00 - 16:30	Automation of ANSA and META to evaluate occupant performance and seat structure for robustness Hemant Shettar*, Yatin Kumbhar, Santosh Patil BETA CAE Systems USA	Handling complex parameterization using ANSA for structural performance optimization ¹ Florin Morar*, ² Sudeep Chavare, ² Eric Gowen, ¹ Ravi Nimbalkar, ¹ Yatin Kumbhar ¹ BETA CAE Systems USA ² General Motors	Reintroducing KOMVOS as a simulation data and process management desktop client Irene Makropoulou BETA CAE Systems
16:30 - 17:00	Bulk positioning tool for impactors and barriers ¹ Sebastian Kreissl, ¹ Dustin Draper*, ² Berkay Atici ¹ BMW Group, ² ARRK Engineering GmbH	Implementing an automated process for updating CATIA files for optimization purposes ¹ Isabella Gavarini*, ² Zafeiria Kanellia, ² Spyros Tzamtzis, George Pentsas, ² Michael Tryfonidis ¹ BMW ² BETA CAE Systems	Unlocking the power of process management with SPDRM Spyros Tzamtzis BETA CAE Systems
17:00 - 17:30	[ONLINE] Cutting-edge FMVSS201U targeting and head positioning at General Motors ¹ Bingfeng Fan*, ¹ Liwu Zhou, ¹ Keshavlal Rathi, ² T. Lioras, ² P. Katsonis, ² T. Fokylidis ¹ General Motors Company, ² BETA CAE Systems	Closing the Optimization cycle: incorporating CAD-design parameters Michail Tryfonidis*, Zafeiria Kanellia, Spyros Tzamtzis BETA CAE Systems	Simulations across borders: using SPDRM's multi-site collaboration to unite global teams Menelaos Pappas BETA CAE Systems
17:30 - 18:00	[ONLINE] Virtual evaluation of system connectivity Christopher Raprager General Motors	Latest and future developments in the Optimization Tool Eva Ioannou BETA CAE Systems Latest and future developments in Morphing and Design Toolbar Serafim Chatzimoiisiadis BETA CAE Systems	Streamlining data extraction from Teamcenter: latest approaches to CAE Structure creation and maintenance Ioannis Haralampidis BETA CAE Systems
18:00 - 20:00	Drinks Foyers		

WEDNESDAY JUNE 14, 2023				DAY 1
Registration Ground Floor Foyer & Welcome Coffee Foyers				10:00 - 12:00
				12:00 - 12:05
				12:05 - 12:10
				12:10 - 12:40
				12:40 - 13:00
Lunch Foyers				13:00 - 14:00
				14:00 - 14:30
				14:30 - 15:00
				15:00 - 15:30
Coffee Break & Technical discussions Foyers				15:30 - 16:00
Session 3D Saturn Moderator: D. Zafeiropoulos	Demo Session 3E Venus I	Demo Session 3F Venus II	Demo Session 3G Mars I	16:00 - 16:30
Mesh automation of runner systems for injection molding simulations Christoph Mau LEGO System A/S	DEEN for simulation driven design Gerasimos Skouvaklis*, Dimitris Chanopoulos BETA CAE Systems	Latest developments in Kinetics Apostolos Paraschoudis BETA CAE Systems		
Adopt injection molding manufacturing effects to improve parts' crashworthiness ¹ Panagiotis Fotopoulos*, ² Michael Richter* ¹ BETA CAE Systems ² MATFEM Ingenieurgesellschaft mbH			META Automation: best practices and proven techniques Emmanouil Kastrinakis BETA CAE Systems	16:30 - 17:00
Efficient middle meshing: a benchmark on a headlight housing part ¹ Christos Sachanas*, ² Simone Chirra BETA CAE Systems ² BMW Group			Simulation coupling and transferring of results across calculations Ioannis Nerantzis BETA CAE Systems	17:00 - 17:30
3D Mesh generation in ANSA for metal casting simulation with PROCAS - The Brembo automated process ¹ Panagiotis Fotopoulos*, ² Federico Zaramella*, ³ Marcello Boschini, ³ Giacomo Valsecchi ¹ BETA CAE Systems, ² BETA CAE Italy, ³ Brembo S.p.A.			Script development and package management using Virtual Environments and VSCODE. Klearchos Thomopoulos BETA CAE Systems	17:30 - 18:00
Drinks Foyers				18:00 - 20:00

DAY 2	THURSDAY JUNE 15, 2023 - Morning Sessions		
08:30 - 09:00	Registration Ground Floor Foyer & Welcome Coffee Foyers		
	Session 4 Audimax Moderator: C. Sferidou		
09:00 - 09:30	New equivalent static load (ESL) creation procedure for complete vehicle ¹ Jens Weber*, ² Luiz Ricardo, ³ Jesper Bäcklund ¹ CEVT AB, ² Politecnico Milano		
09:30 - 10:00	ANSERS: The single point-of-truth for simulation and physical test data Antonis Perifanis BETA CAE Systems		
10:00 - 10:30	FATIQ - The comprehensive platform for streamlined fatigue analyses George Korbetis BETA CAE Systems		
10:30 - 11:00	Coffee Break & Technical discussions Foyers		
	Session 5A Audimax Moderator: M. Pappas	Session 5B Terra Moderator: V. Skaperdas	Session 5C Jupiter Moderator: I. Nerantzis
11:00 - 11:30	Streamlining simulation run preparation with an end-to-end modular methodology Irene Makropoulou BETA CAE Systems	Watertight simulation with SPH to preventing leakage in design stage Jong Hyun Baek*, Chul Hong Lee Hyundai	New features and enhancements in EPILYSIS Panagiotis Pantazidis BETA CAE Systems
11:30 - 12:00	From Includes to a comprehensive CAE application environment Carsten Höfer Hyundai Motor Europe Technical Center GmbH	The integration of ANSA into the Climate Control systems engineering CFD process at Ford ¹ Konstantinos Haliskos*, ² Igor Golberg ¹ BETA CAE Systems, ² FORD WERKE GmbH	HV battery structural elements Durability assessment Anil Demirkesen Siro Energy
12:00 - 12:30	Addressing challenges in the BiW model build-up process in AUDI AG ¹ Thanasis Fassas*, ² Richard Lindner ¹ BETA CAE Systems, ² AUDI AG	Advancing the virtual geometric representation of sealings on surrounding structures for precise simulation prediction in Aerodynamics Soiling and Aero-acoustics Mattias Hejdesten, Volvo Group Trucks Technology	ANSA plugin of Virtual Strain Gauge utilities for FEMFAT Minoru Nakano BETA CAE Systems Japan Inc.
12:30 - 13:00	Closures deformation optimization considering Kinetic system Jinsoo Shin Hyundai Motor Company	Effects of baffle design on reducing liquid sloshing using ANSA / LS-DYNA Conor Robb Queen's University Belfast	Latest and future developments in simulations for durability and composites materials-made structures Yiannis Asanotis BETA CAE Systems
13:00 - 13:10	Group-photo shooting		
13:10 - 14:00	Lunch Foyers		

THURSDAY JUNE 15, 2023 - Morning Sessions				DAY 2
Registration Ground Floor Foyer & Welcome Coffee Foyers				08:30 - 09:00
				09:00 - 09:30
				09:30 - 10:00
				10:00 - 10:30
Coffee Break & Technical discussions Foyers				10:30 - 11:00
Session 5D Saturn Moderator: L. Rorris	Demo Session 5E Venus I	Demo Session 5F Venus II	Demo Session 5G Mars I	
The application of an IGA body-in-white in a hybrid full car simulation ¹ Frank Bauer*, ² Lukas Leidinger ¹ BMW, ² ANSYS	A new approach for Geometry and Mesh handling Dimitris Mavropoulos BETA CAE Systems	ANSERS use cases Antonis Perifanis BETA CAE Systems		11:00 - 11:30
IGA technology validation for forefront crashworthiness CAE analysis Pablo Cruz*, Lluís Martorell, Adrian Ros, Alejandro Dominguez Applus+ IDIADA	Understand and exploit the capabilities of Batch Meshing Nikolas Drivakos BETA CAE Systems	FMI/FMU: Making detailed CAE simulation models accessible to all Engineers Dimitrios Daniil BETA CAE Systems		11:30 - 12:00
Isogeometric Analysis in LS-DYNA: pushing the frontiers of modern simulation ¹ Lukas Leidinger*, ¹ Stefan Hartmann, ² Frank Bauer, ³ Dave Benson, ³ Átila Nagy ¹ DYNAMore GmbH, an ANSYS company, ² BMW Group, ³ ANSYS	Efficient middle meshing Dimitrios Christias BETA CAE Systems	ANSA and META for Occupant Safety Manos Dagdilelis BETA CAE Systems	ANSA's Graphview Tool Eleftherios Daskalakis BETA CAE Systems	12:00 - 12:30
Methods and tools for IGA models for LS-DYNA Lambros Rorris, BETA CAE Systems	Structured meshing: Challenges and solutions Dimitris Mavropoulos BETA CAE Systems	Modular Run Management for Pedestrian / FMVSS201U analysis Antonis Perifanis BETA CAE Systems		12:30 - 13:00
				13:00 - 13:10
Group-photo shooting				13:00 - 13:10
Lunch Foyers				13:10 - 14:00

DAY 2 THURSDAY JUNE 15, 2023 - Afternoon Sessions			
	Session 6A Audimax Moderator: A. Fokylidis	Session 6B Terra Moderator: G. Fotiadis	Session 6C Jupiter Moderator: Y. Kolokythas
14:00 - 14:30	Bringing Human Body Models to life. The future in Safety simulations. Lambros Rorris BETA CAE Systems	Sensitized-RANS simulations of complex flows in conjunction with ANSA®: towards increasing efficiency Serhat Souris Louis Krüger*, Maximilian Bopp, Suad Jakirlic Technical University of Darmstadt	Position effect of drain holes on crossmember for Side Poll Crush scenerio Serhat Souris Siro Energy
14:30 - 15:00	Assessment of abdominal and skeletal loadings and kinematics during frontal impacts: employing a novel tool for HBM variants generation based on the occupant's BMI Dimitris Zouzias*, A.Fokylidis BETA CAE Systems	Best-in-class CFD meshing for the aerospace sector Vangelis Skaperdas BETA CAE Systems	Battery bottom cover CAE simulation Tarik Baldan Siro Energy
15:00 - 15:30	Comparison of the injury risk prediction of the THOR-Reclined dummy and the THUMS HBM Pablo Lozano*, Simona Roka, Alessandro Gravina, Genis Mensa, William Marshall AppluS IDIADA, CELLBOND	Automation of pre- and post-processing of missile aerodynamics analysis Cinzia Rainone*, Giuliano Buccini MBDA	Automatic prioritisation of critical interfaces for squeak and rattle risk in a passenger car Mohsen Bayani*, T. Fokylidis, Henrik Puhasmagi, S. Porikis, K. R. Koduru, Ajay Srinivasan Narayanan Volvo Car Corporation BETA CAE Systems, BETA CAE Systems India
15:30 - 16:00 Coffee Break & Technical discussions Foyers			
	Session 7A Audimax Moderator: N. Tzolas	Session 7B Terra Moderator: K. Haliskos	Session 7C Jupiter Moderator: D. Daniil
16:00 - 16:30	Model development and simulation process of customized numerical Human Body Models for the study and analysis of healthcare products Alit Putra*, Mikael Almquist ALTEN Sweden	Latest and future developments in ANSA and META for CFD Grigoris Fotiadis BETA CAE Systems	Latest and future developments in NVH Vassilis Pavlidis BETA CAE Systems
16:30 - 17:00	Geometric variation of pelvic bone in Human Body Models with focus on submarining risk Marius Rees*, Prof. Dr. Steffen Peldschus, Philipp Wernicke BMW AG LMU München, Biomechanik und Unfallforschung, Institut für Rechtsmedizin	Suitability assessment of various meshing strategies for CFD applications Nicholas Mitroglou, BETA CAE Systems UK	Optimization of sound pressure and vibration levels in automobiles and response predictions using Deep Neural Networks Vinamra Gehlot*, Thomas Roy, Markus Herbst EDAG Engineering GmbH, BETA CAE Systems
17:00 - 17:30	Addressing positioning challenges for ATDs and HBMs: embracing the ANSA approach in industrial safety applications Thanassis Fokylidis*, BETA CAE Systems	Introducing Flow360 - a fast and accurate CFD solver integrated with ANSA Maciej Skarysz*, CJ Doolittle, Zongfu Yu Flexcompute	Comparison of the numerical accuracy of Superelements and FRF Assembly Markus Herbst BETA CAE Systems
17:30 - 18:00	Advanced FE biomechanical positioning method Francesco Cappellino*, Alessandro Sias C.R.F. S.C.p.A., FCA Italy S.p.A.		Vibroacoustic coupling: a new approach Kostas Skolarikis BETA CAE Systems
19:00 - 23:00 Reception - Dinner & Entertainment Augustiner-Keller Munich Arnulfstrasse 52, 80335 Munich Buses leave at: 18:30 Return buses leave at: 23:00			

THURSDAY JUNE 15, 2023 - Afternoon Sessions DAY 2					
	Session 6D Saturn Moderator: I. Chalkidis	Demo Session 6E Venus I	Demo Session 6F Venus II	Demo Session 6G Mars I	
	Isogeometric analysis in ANSA using local refinement and thb-splines Angelos Mantzafaris*, Ioannis Chalkidis, Christos Karampatzakis Inria Center of the French Riviera University, BETA CAE Systems	Key features and use cases of FATIC Christos Tegos BETA CAE Systems	New optimization capabilities in the NVH-Console Grigoris Kalampoukas BETA CAE Systems	14:00 - 14:30	
	Isogeometric contact analysis in G+Smo with preprocessing in ANSA Ch. Karampatzakis*, Dr. A. Mantzafaris, Dr. I. Chalkidis, Prof. Ch. Provatidis, Prof. A. Mihailidis AUTH, Inria Sophia Antipolis, Université Côte d'Azur, BETA CAE Systems, NTUA		Introducing Statistical Energy Analysis support in ANSA Iraklis Gkoutas BETA CAE Systems	Find optimal designs of your parametric ANSA model using the embedded Optimizers in the Optimization tool. Eva Ioannou BETA CAE Systems	14:30 - 15:00
		Introducing the redesigned Representative Volume Element (RVE) Generator Tool Vangelis Palaioikastritis BETA CAE Systems		An application example of the next generation approach to Crash Simulation Optimization, incorporating CAD-Design parameters Zafeiria Kanellia BETA CAE Systems	15:00 - 15:30
15:30 - 16:00 Coffee Break & Technical discussions Foyers				15:30 - 16:00	
	Session 7D Saturn Moderator: I. Rizos	Demo Session 7E Venus I	Demo Session 7F Venus II	Demo Session 7G Mars I	
	ANSA and META for battery electromagnetic simulations Athanasios Papadopoulos BETA CAE Systems	Revamping Model Build: AI and Part Build at the service of CAE modeling teams Pavlos Floratos BETA CAE Systems		The pillar-functionality of the "stamp-crash" process Klearchos Thomopoulos BETA CAE Systems	16:00 - 16:30
	Computational electromagnetics with ASERIS-BE™ Benoît Chaigne*, Christos Lontas IMACS BETA CAE Systems		PERMAS from within BETA's CAE Suite Kosmas Gourgounis BETA CAE Systems	A productive way to replace areas with beam elements Nikolaos Efstathakis BETA CAE Systems	16:30 - 17:00
	Thermal simulation of PCBs using ANSA ECAD Importer, ANSYS Fluent and META Christos Lontas*, Alexis Sanjaime BETA CAE Systems, Thales	Design Optimization in the Modular Environment: from setup to HPC submission and post-processing M. Papastavropoulou BETA CAE Systems		Connections navigator: a new approach to assembly validation Zafeiria Kanellia BETA CAE Systems	17:00 - 17:30
	Automating meshing and thermal analysis for an EV battery pack with ANSA TAItherm and CoTherm Sacha Jelic*, Daniel Woodford, Eli Datema ThermoAnalytics GmbH, ThermoAnalytics Inc	Data insights: Keeping track, discovering, process reviewing, and accelerating decision making Panagiotis Mantzopoulos BETA CAE Systems	From complex meshes to smooth surfaces: the new SubD approach Konstantinos Kafkalas BETA CAE Systems	Effortless hydrodynamic simulations with the ANSA SPH solver Liana Vasiladioti BETA CAE Systems	17:30 - 18:00
19:00 - 23:00 Reception - Dinner & Entertainment Augustiner-Keller Munich Arnulfstrasse 52, 80335 Munich Buses leave at: 18:30 Return buses leave at: 23:00				19:00 - 23:00	

DAY 3 FRIDAY JUNE 16, 2023 - Morning Sessions			
09:00 - 09:30	Registration Ground Floor Foyer & Welcome Coffee Foyers		
	Session 8 Audimax Moderator: K. Kiouptsidis		
09:30 - 10:00	How to optimize the design of a car-body-structure by using Machine Learning Fabiola Cavaliere*, Dr. Xabier Larrayoz SEAT S.A.		
10:00 - 10:30	Machine Learning Tools for accelerating CAE and unleashing Design Exploration Dimitris Drougkas*, Nikolaos Tzolas BETA CAE Systems		
10:30 - 11:00	Coffee Break & Technical discussions Foyers		
	Session 9A Audimax Moderator: D. Zouzias	Session 9B Terra Moderator: E. Palaiokastritis	Session 9C Jupiter Moderator: E. Kastrinakis
11:00 - 11:30	Latest & future developments in Crash and Safety Thanassis Fokylidis*, Lambros Rorris BETA CAE Systems	Structural optimization of wing elements of an unmanned air vehicle Andreas Psarros*, Georgios Savaidis Lab of Machine Elements and Machine Design, AUTH	NEERE: Beyond maturity, as a communications and training platform Gerasimos Skouvaklis BETA CAE Systems
11:30 - 12:00	Optimization and quick verification of an electric vehicle side-frame design using Machine Learning methods Christina Chatzigeorgiadou*, Athanasios Papadopoulos BETA CAE Systems	FE analysis of closed cell aluminum foam under impact loading *Nikolaos Michailidis*, ² C. Tegos, ¹ E. Smyrniotis, ¹ F. Stergioudi, ³ G. Malliaris ¹ Physical Metallurgy Laboratory, AUTH, ² BETA CAE Systems, ³ Additive Manufacturing Laboratory, International Hellenic University	Eliminating physical clamping processes with the aid of Engineering Simulation Panagiotis Pantazidis BETA CAE Systems
12:00 - 12:30	Prediction of Occupant safety utilizing Machine Learning and CARLA Autonomous drive simulation software (CARLA Integration) Dimitris Drougkas*, Panagiota Kagioglou BETA CAE Systems	Simulation of shot peening implementing stochastic aspects Christos Gakias*, Georgios Savaidis Laboratory of Machine Elements and Machine Design, AUTH	Breaking down the interoperability barrier among different FEA software Thanasis Fassas*, Georgios Mokios BETA CAE Systems
12:30 - 14:00	Farewell Lunch Foyers		

FRIDAY JUNE 16, 2023 - Morning Sessions				DAY 3
Registration Ground Floor Foyer & Welcome Coffee Foyers				09:00 - 09:30
				09:30 - 10:00
				10:00 - 10:30
Coffee Break & Technical discussions Foyers				10:30 - 11:00
Session 9D Saturn Moderator: V. Karatsis	Demo Session 9E Venus I	Demo Session 9F Venus II	Demo Session 9G Mars I	
Exploring the latest developments in RETOMO Vangelis Karatsis BETA CAE Systems	Hexablock meshing for CFD Antonios Karasavvidis BETA CAE Systems	ECAD Importer: A gateway to FEA simulations for PCBs Liana Vasiladioti BETA CAE Systems	ANSA modelling for ACTRAN Dimitrios Tasoulas BETA CAE Systems	11:00 - 11:30
Latest developments and future roadmap of the BETA Development Platform Yianni Kolokythas BETA CAE Systems	Volume modularity in CFD models: a complete workflow Nicholas Mitroglou BETA CAE Systems	Machine Learning Design Variable and Feature-based training and simulation results prediction Dimitris Drougkas BETA CAE Systems	ANSA for NASTRAN Aeroelasticity Dimitrios Tasoulas BETA CAE Systems	11:30 - 12:00
	Fiber reinforced material CT Scan processing with RETOMO Petros Michailidis*, Evangelos Karatsis BETA CAE Systems		Latest developments and employment of NEERE as a training platform Gerasimos Skouvaklis BETA CAE Systems	
Farewell Lunch Foyers				12:30 - 14:00