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## Monday, March 6, Morning Sessions

7:00am-9:00am	REGISTRATION	
9:00am-9:10am	WELCOME TO THE STAR GLOBAL CONFERENCE David Vaughn	Keynote
9:10am-9:40am	INTRODUCTION TO SIMCENTER Jan Leuridan	Keynote
9:40am-10:30am	KEYNOTE FROM NORBERT HAUG Norbert Haug	Keynote
10:30am-11:00am	COFFEE BREAK	
11:00am-12:40pm	KEYNOTE: STAR-CCM+ AND HEEDS, SIMCENTER PORTFOLIO Jean-Claude Ercolanelli	Keynote
12:40pm-2:00pm	LUNCH	

# Monday, March 6, Afternoon Sessions

Time	Convention Hall 1C	Convention Hall 1D	Room I	Room II	Room III
2:00pm-2:25pm	<p><b>SIMULATING ATMOSPHERIC BOUNDARY LAYER FOR TRUCKS</b> Niek van Dijk</p> <p>DAF Trucks NV Ground Transportation</p>	<p><b>OPTIMIZATION OF PASSENGER INDIVIDUAL AIR NOZZLES</b> Andreas Ruch</p> <p>Airbus Operations GmbH Aerospace</p>	<p><b>CFD MODELING AND OPTIMIZATION OF A COOLING POND</b> Sylvain Devynck</p> <p>TechnipFMC Chemical Process Industry</p>	<p><b>HYDRODYNAMICS OF DRILLING RISER BUOYANT JOINTS</b> Lawrence Lai</p> <p>Trelleborg USA Oil and Gas</p>	<p><b>IN-CYLINDER SIMULATION IN STAR-CCM+</b> Patrick Niven</p> <p>Siemens PLM Internal Combustion Engines</p>
2:25pm-2:50pm	<p><b>CFD SIMULATION OF A VISCOUS COUPLING</b> Jan Schlotke</p> <p>MAHLE Behr GmbH &amp; Co. KG Ground Transportation</p>	<p><b>TEST EXPLORATION</b> Sébastien Carpiert</p> <p>MBDA France Aerospace</p>	<p><b>USE OF CFD TO IMPROVE WASTEWATER TREATMENT PLANTS</b> Erwin Eichelberger and Rehan Yousaf</p> <p>Pöyry Switzerland Chemical Process Industry</p>	<p><b>VIBRATION IN THE OIL &amp; GAS INDUSTRY</b> Mike Lewis</p> <p>FTS Engineering Answers Ltd Oil and Gas</p>	
2:50pm-3:15pm	<p><b>SIMULATIONS OF HIGH SPEED TRAINS</b> Steve Cochard</p> <p>Stadler Rail Ground Transportation</p>	<p><b>ANALYSIS OF DISTRIBUTED ELECTRIC PROPULSION</b> Felix Schöfer</p> <p>Lillium GmbH Aerospace</p>	<p><b>COUPLED ACOUSTIC AND FLOW SIMULATIONS OF AN ULTRAS</b> Vivek Kumar and Panagiotis Papathanasiou</p> <p>Endress+Hauser Flowtec AG Chemical Process Industry</p>	<p><b>SLUG FLOW STUDY ALONG DIFFERENT WELL TRAJECTORIES</b> Esteban Guerrero and Nicolás Ratkovich</p> <p>Universidad de los Andes Oil and Gas</p>	<p><b>EFFECTS OF MESHING STRATEGIES ON IN-CYLINDER FLOWS</b> Stefano Fontanesi</p> <p>University of Modena and Reggio Emilia Internal Combustion Engines</p>
3:15pm-3:40pm	<p><b>AERODYNAMIC CROSSING TRAMWAYS IN TUNNEL</b> Huu-Thi Do</p> <p>ALSTOM Ground Transportation</p>	<p><b>ICE ACCRETION AERODYNAMICS SIMULATION</b> Julien Vitet</p> <p>Assystem France Aerospace</p>	<p><b>CFD ANALYSIS OF SEDIMENTATION PHENOMENA</b> Nelson Marques and Pedro Fonseca Pedro Fonseca</p> <p>FSD blueCAPE Chemical Process Industry</p>	<p><b>CFD MODELING OF GAS-LIQUID CYLINDRICAL CYCLONES</b> Juan Berrio and Esteban Guerrero</p> <p>Universidad de los Andes Oil and Gas</p>	<p><b>MODELING OF IN-CYLINDER FLOW USING OVERSET MESH</b> Yangbing Zeng</p> <p>General Motors Holding, LLC Internal Combustion Engines</p>
3:40pm-4:15pm	<b>COFFEE BREAK</b>				
4:15pm-4:40pm	<p><b>CFD-AIDED DESIGN OF MIXERS FOR THE UREA INJECTION</b> Ivan Flaminio Cozza</p> <p>GM Global Propulsion Systems - Torino s.r.l. Powertrain</p>	<p><b>REDUCING CFD LATENCY IN AERO DESIGN EVALUATIONS</b> Trevor Orr</p> <p>X Aerospace</p>	<p><b>WHAT'S HAPPENING INSIDE FIXED-BED REACTORS?</b> Gregor D. Wehinger and Nico Jurtz</p> <p>Technische Universität Berlin Chemical Process Industry</p>	<p><b>ANALYSIS IN LARGE SCALE NUCLEAR BUILDINGS</b> Olivier Bernard</p> <p>AREVA NP SAS Nuclear</p>	<p><b>EXPLORING PERFORMANCE OF DIESEL ENGINE USING HEEDS</b> Karl Oberhumer</p> <p>HEEDS Design Exploration Team Internal Combustion Engines</p>
4:40pm-5:05pm	<p><b>EXHAUST MANIFOLD THERMAL ASSESSMENT OPTIMIZATION</b> Ipek Duman</p> <p>Ford Otosan Powertrain</p>	<p><b>DYNAMIC STABILITY OF A MANNED VTOL AIRCRAFT</b> Vishakh Begari Prakash</p> <p>Lillium GmbH Aerospace</p>	<p><b>CFD-DEM STUDY IN THE 20L EXPLOSION SPHERE</b> Mariangel Amin and Andres Pinilla</p> <p>Universidad de los Andes Chemical Process Industry</p>	<p><b>EROSION OF ADVANCED TEST REACTOR FUEL ELEMENTS</b> Thomas Eiden</p> <p>Idaho National Laboratory Nuclear</p>	<p><b>PISTON BOWL OPTIMIZATION USING STAR-CD AND HEEDS</b> Nicola Giovannoni</p> <p>University of Modena and Reggio Emilia Internal Combustion Engines</p>
5:05pm-5:30pm	<p><b>EGR PUMPING CAPABILITY OPTIMIZATION ASSESSMENT</b> Burak Bayrak</p> <p>Ford Otosan Powertrain</p>	<p><b>APPLICATION OF STAR-CCM+ TO HELICOPTER ROTOR HOVER</b> Lakshmi Sankar</p> <p>Georgia Institute of Technology Aerospace</p>	<p><b>MULTI-SCALE MODELING OF FLUID BED GRANULATION</b> Rohit Ramachandran</p> <p>Rutgers University Chemical Process Industry</p>	<p><b>COUPLED CFD-STH ANALYSIS OF LIQUID METAL FLOWS</b> Marti Jeltsov</p> <p>KTH Royal Institute of Technology Nuclear</p>	<p><b>CFD SIMULATION OF GDI ENGINE COLD START</b> Yongwook Yu</p> <p>Hyundai Motor Company Internal Combustion Engines</p>
5:30pm-5:55pm	<p><b>DURABILITY ANALYSIS OF FOULED EGR COOLER</b> Raimund Vedder</p> <p>Atlanting GmbH Powertrain</p>	<p><b>DEICING SYSTEM ADVANCES BY ICE ACCRETION MODELING</b> Kevin Yugulis</p> <p>Battelle Memorial Institute Aerospace</p>	<p><b>STEAM REFORMING IN A PACKED BED MEMBRANE REACTOR</b> Nico Jurtz</p> <p>TU Berlin Chemical Process Industry</p>	<p><b>FIRE PROPAGATION ANALYSIS WITH STAR-CCM+</b> Benjamin Chazot</p> <p>AREVA NP SAS Nuclear</p>	<p><b>DUAL FUEL ENGINE CHARGE MOTION &amp; COMBUSTION STUDY</b> Kamlesh Ghael</p> <p>Universität Duisburg Essen Internal Combustion Engines</p>
6:30pm-10:30pm	<b>CONFERENCE DINNER</b>				

# Tuesday, March 7, Morning Sessions

Time	Convention Hall 1C	Convention Hall 1D	Room I	Room II	Room III
7:00am-8:30am	REGISTRATION				
8:30am-8:55am	<p><b>BREAKING RECORDS USING DIGITAL AERO DEVELOPMENT</b> Erich Jehle-Graf</p> <p><b>Daimler AG</b> Automotive</p>	<p><b>USING OPTIMATE AND STAR-CCM+ TO #BRINGTHECUPHOME</b> Maxwell Starr</p> <p><b>Land Rover BAR</b> Marine</p>	<p><b>SIMULATION OF BLOOD FLOW IN ROTATIONAL BLOOD PUMPS</b> Klaus Affeld</p> <p><b>Charité - Universitätsmedizin Berlin</b> Life Sciences</p>	<p><b>GAS TURBINE HEAT TRANSFER HIGH FIDELITY CHT CFD</b> Philipp Cavadini</p> <p><b>Siemens AG</b> Energy</p>	<p><b>EVALUATION OF THE FLAME PROPAGATION IN AN ENGINE</b> Kai Aschmoneit</p> <p><b>Adam Opel AG</b> Internal Combustion Engines</p>
8:55am-9:20am	<p><b>THE FUTURE OF SUPERCAR AERODYNAMICS</b> Mark Dekker</p> <p><b>KLK Motorsport GmbH</b> Automotive</p>	<p><b>CFD DRIVEN DRILLSHIP DESIGN</b> Jan Willem Krijger</p> <p><b>GustoMSC</b> Marine</p>	<p><b>EASY-TO-USE MINIATURIZED BLOOD-SAMPLING DEVICE</b> Thilo Liebscher and Nelson Matuschek</p> <p><b>Technical University Wildau</b> Life Sciences</p>	<p><b>DESIGN EXPLORATION OF A DLN HYDROGEN COMBUSTOR</b> Anis Haj Ayed</p> <p><b>B&amp;B-AGEMA</b> Energy</p>	<p><b>IMPACT OF WALL HEAT TRANSFER ON ENGINE BEHAVIOR</b> Fabio Berni</p> <p><b>University of Modena and Reggio Emilia</b> Internal Combustion Engines</p>
9:20am-9:45am	<p><b>SKODA EXTERNAL AERODYNAMIC CFD WORKFLOW</b> Jan Slavik</p> <p><b>SKODA AUTO a.s.</b> Automotive</p>	<p><b>VALIDATION AND APPLICATION FOR SEMI-PLANING CRAFTS</b> Minyee Jiang</p> <p><b>Naval Surface Warfare Center</b> Marine</p>	<p><b>CFD AS TREATMENT SUPPORT IN CARDIOLOGY</b> Katharina Vellguth</p> <p><b>Charité Berlin - Biofluid Mechanics Lab</b> Life Sciences</p>	<p><b>MULTISTAGE BOREHOLE PUMP: OFF-DESIGN ANALYSIS</b> Lorenzo Gobbi</p> <p><b>DAB Pumps S.p.A.</b> Energy</p>	<p><b>COMBUSTION IN DI-SI ENGINES USING G-EQUATION MODEL</b> Marc Zellat</p> <p><b>Siemens PLM Software</b> Internal Combustion Engines</p>
9:45am-10:10am	<p><b>MESH ADAPTION FOR VEHICLE AERODYNAMICS SIMULATION</b> Enrico Ribaldone</p> <p><b>Centro Ricerche FIAT</b> Automotive</p>	<p><b>AZIPOD® PROPULSOR IN OBLIQUE FLOW AT FULL SCALE</b> Pasi Miettinen</p> <p><b>ABB Oy</b> Marine</p>	<p><b>RUPTURE RISK ASSESSMENT FOR INTRACRANIAL ANEURYSMS</b> Samuel Voß</p> <p><b>University of Magdeburg</b> Life Sciences</p>	<p><b>SPEED-UP GEARBOX SIMULATIONS BY INTEGRATING SCORGE®</b> Ludwig Berger</p> <p><b>CFD Schuck Ingenieurgesellschaft mbH</b> Energy</p>	<p><b>AN IMPROVED SPARK IGNITION MODEL FOR LES</b> Alessandro d'Adamo</p> <p><b>University of Modena and Reggio Emilia</b> Internal Combustion Engines</p>
10:10am-10:45am	COFFEE BREAK				
10:45am-11:10am	<p><b>MULTIPHASE SIMULATION OF EXTERNAL WATER MANAGEMENT</b> Michael Ade</p> <p><b>Daimler AG</b> Automotive</p>	<p><b>PARAMETRIC MODELING OF A PROPULSIVE SYSTEM</b> Claudio Ghirlanda</p> <p><b>Rolla SP Propellers SA</b> Marine</p>	<p><b>PARAMETRIC 3D MODEL TO EVALUATE DIFFERENT MOTORS</b> Theodoros Papadopoulos</p> <p><b>Siemens AG - Corporate Technology</b> Electronics &amp; Electrification</p>	<p><b>NUMERICAL INVESTIGATION OF A NON-NEWTONIAN PUMP</b> Carlo Buratto</p> <p><b>Fluid-A s.r.l.</b> Energy</p>	<p><b>COMPLETE ENGINE THERMAL MODEL</b> Mirko Bovo</p> <p><b>Volvo Car Corporation</b> Powertrain</p>
11:10am-11:35am	<p><b>MULTIPHASE MODEL FOR A CAR WINDSHIELD WIPER SYSTEM</b> Robert Rundqvist</p> <p><b>FS Dynamics</b> Automotive</p>	<p><b>SELF-PROPULSION SIMULATION WITH A PRE-SWIRL STATOR</b> Koen In de Braekt</p> <p><b>Wärtsilä</b> Marine</p>	<p><b>ELECTRONICS SYSTEM COOLING: FROM 2D CIRCUIT TO PCB</b> Peter Chow, Leopold Sternberg, James Clement</p> <p><b>Fujitsu Laboratories of Europe Ltd</b> Electronics &amp; Electrification</p>	<p><b>ACCELERATING PUMP DESIGN EXPLORATION</b> Ralph-Peter Mueller and Jim Ryan</p> <p><b>CFturbo Software &amp; Engineering GmbH</b> Energy</p>	<p><b>THERMAL INFLUENCE ON ENGINE INTAKE AIR</b> Fabiano Bet</p> <p><b>InDesA GmbH</b> Powertrain</p>
11:35am-12:00pm	<p><b>CFD SIMULATION OF A VIRTUAL HVAC RIG</b> Christoffer Hakansson</p> <p><b>FS Dynamics</b> Automotive</p>	<p><b>FULL-SCALE SELF-PROPULSION CALCULATIONS</b> Thomas Guiard</p> <p><b>IBMV</b> Marine</p>	<p><b>OPTIMIZATION OF AN OUTDOOR LED LAMP POST HEAT SINK</b> Philippe Vincent</p> <p><b>Creaform</b> Electronics &amp; Electrification</p>	<p><b>TRANSIENT ANALYSIS OF THE FRANCIS-99 HYDROTURBINE</b> Chad Custer</p> <p><b>Siemens PLM</b> Energy</p>	<p><b>AUTOMATIC GASKET TUNING OPTIMIZATION ALGORITHMS</b> Giuseppe Corbo</p> <p><b>GM Global Propulsion Systems - Torino s.r.l.</b> Powertrain</p>
12:00pm-12:25pm	<p><b>DIRECT NOISE SIMULATION OF FLOW INDUCED WHISTLE</b> Andrea Alessandro Piovano</p> <p><b>FCA Italy</b> Automotive</p>	<p><b>BEST PRACTICES FOR FLOW SIMULATIONS WITH WAVES</b> Milovan Peric</p> <p><b>CoMeT GmbH</b> Marine</p>	<p><b>EFFECT OF A MAGNETIC FIELD ON HEAT TRANSFER RATE</b> Gustavo Gutierrez</p> <p><b>University of Puerto Rico</b> Electronics &amp; Electrification</p>	<p><b>IMPROVING FAN EFFICIENCY WITH DESIGN EXPLORATION</b> Mehrads Zangeneh</p> <p><b>Advanced design Technology Ltd</b> Energy</p>	<p><b>OIL SPLASH SIMULATION IN FINAL DRIVE WITH OVERSET</b> Himanshu Patel and Martin Anto</p> <p><b>Mercedes-Benz Research and Development India Pvt. Ltd.</b> Powertrain</p>
12:25pm-2:00pm	LUNCH				

# Tuesday, March 7, Afternoon Sessions

Time	Convention Hall 1C	Convention Hall 1D	Room I	Room II	Room III
2:00pm 2:25pm	ADJOINT BASED OPTIMIZATION CONNECTED WITH THE CAD Christian Boehmer  Porsche AG Automotive	THREE CASE STUDIES ON STAR-CCM+ Vidar Tregde  CeWave Marine	DYNAMIC MODELING OF A MINE SHAFT LIFT CONVEYANCE Andrew Basford  WSP Building	NUMERICAL MODELING OF TWIN-SCREW PUMPS USING CFD Sham Rane  City, University of London Energy	CFD SIMULATION OF A CLUTCH RUNNING-IN TESTBENCH Joachim Hanner  Magna Powertrain - Engineering Center Steyr GmbH & Co. KG Powertrain
2:25pm 2:50pm	AUTOMOTIVE MANIFOLD SHAPE DESIGN EXPLORATIONS Stefano Trimboli  Friendship Systems AG Automotive	MODELING OF 2D IRREGULAR WAVES ON A SLOPED BOTTOM Luca Oggiano  IFE Marine	EFFICIENT AIR PASS SETUP FOR LOCAL VENTILATION Gerrid Brockmann  Technische Universität Berlin Building	COAL TO BIOMASS (WOOD PELLETS) MILL CONVERSION Cornelis Zwaan  Coal Milling Projects Energy	CONJUGATED HEAT TRANSFER SIMULATION OF A CVT Johannes Wurm  Graz University of Technology Powertrain
2:50pm 3:15pm	WIPER HSQ PERFORMANCE FOR PASSENGER CARS USING CFD Srinivasa Yenugu  Mercedes Benz R&D India Automotive	CFD SIMULATIONS OF SHIPS IN HIGH WAVES David Frisk  FS Dynamics Marine	CFD FOR DATA CENTRE COOLING OPTIMIZATION Rama Pathakota  WSP Group Building	HPC DESIGN EXPLORATION FOR A 500 MW OXY-COAL FIRED Michal Hradisky  University of Utah Energy	PULLEY BLADE SHAPE OPTIMIZATION USING OPTIMATE+ Fabien Lacroix  Volvo Powertrain Powertrain
3:15pm 3:40pm	BIM, BANG, BOOM Erwin G. Schnell  HBI Haerter AG Automotive	SHIP MANOEUVRABILITY AND MANOEUVRING SIMULATIONS Carlo Pettinelli  Siemens PLM Software Marine	THERMAL COMFORT OF CREAFORM'S HQ OPEN WORKSPACE Philippe Vincent  Creaform Building	COMBINED NUMERICAL APPROACH FOR THE ENERGY EFFICIENT Luca Montorsi  University of Modena and Reggio Emilia Energy	PERFORMANCE OPTIMIZATION OF A HEAT EXCHANGER Youssef Beddadi and Jonathan Oropeza  Valeo Powertrain
3:40pm 4:15pm	COFFEE BREAK				
4:15pm 5:45pm	CLOSING PLENARY SESSION: STAR-CCM+ PRODUCT ROADMAP				

## Wednesday, March 8, Morning Sessions

Time	Convention Hall 1C	Convention Hall 1D	Room I	Room II	Room III
8:00am-9:45am	APPROACHES TO DESIGN EXPLORATION IN CAE 1	CAD TO MESH		APPROACHES TO MODELING MULTIPHASE FLOWS	JAVA PROGRAMMING FOR STAR-CCM+
9:45am-10:15am	BREAK				
10:15am-12:00pm	APPROACHES TO DESIGN EXPLORATION IN CAE 2	ADVANCED POST-PROCESSING IN STAR-CCM+		COMBUSTION	OVERSET MESHING
12:00pm-1:00pm	LUNCH				

## Wednesday, March 8, Afternoon Sessions

Time	Convention Hall 1C	Convention Hall 1D	Room I	Room II	Room III
1:00pm-2:45pm	MESHING BEST PRACTICES	USING ADJOINT METHODS IN STAR-CCM+		TURBULENCE MODELING	E-COOLING
2:45pm-3:15pm	BREAK				
3:15pm-5:00pm	MESHING BEST PRACTICES 2	BEST PRACTICES IN MODELING HEAT TRANSFER		IMPROVING PUMP PERFORMANCE WITH OPTIMIZATION	FLUID-STRUCTURE INTERACTION AND COUPLING TECHNIQUE