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