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Monday, March 6, Morning Sessions

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|-----------------|--|---|
| 7:00am-9:00am | REGISTRATION | |
| 9:00am-9:10am | WELCOME TO THE STAR GLOBAL CONFERENCE David Vaughn | Siemens PLM Software Keynote |
| 9:10am-9:40am | INTRODUCTION TO SIMCENTER Jan Leuridan | Siemens PLM Keynote |
| 9:40am-10:30am | KEYNOTE FROM NORBERT HAUG Norbert Haug | Mercedes-Benz Motorsport Keynote |
| 10:30am-11:00am | COFFEE BREAK | |
| 11:00am-12:40pm | KEYNOTE: STAR-CCM+ AND HEEDS, SIMCENTER PORTFOLIO Jean-Claude Ercolanelli | Siemens PLM Software 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>SIMULATING ATMOSPHERIC BOUNDARY LAYER FOR TRUCKS Niek van Dijk</p> <p>DAF Trucks NV Ground Transportation</p> | <p>OPTIMIZATION OF PASSENGER INDIVIDUAL AIR NOZZLES Andreas Ruch</p> <p>Airbus Operations GmbH Aerospace</p> | <p>CFD MODELING AND OPTIMIZATION OF A COOLING POND Sylvain Devynck</p> <p>TechnipFMC Chemical Process Industry</p> | <p>HYDRODYNAMICS OF DRILLING RISER BUOYANT JOINTS Lawrence Lai</p> <p>Trelleborg USA Oil and Gas</p> | <p>IN-CYLINDER SIMULATION IN STAR-CCM+ Patrick Niven</p> <p>Siemens PLM Internal Combustion Engines</p> |
| 2:25pm-2:50pm | <p>CFD SIMULATION OF A VISCOUS COUPLING Jan Schlotke</p> <p>MAHLE Behr GmbH & Co. KG Ground Transportation</p> | <p>TEST EXPLORATION Sébastien Carpiert</p> <p>MBDA France Aerospace</p> | <p>USE OF CFD TO IMPROVE WASTEWATER TREATMENT PLANTS Erwin Eichelberger and Rehan Yousaf</p> <p>Pöyry Switzerland Chemical Process Industry</p> | <p>VIBRATION IN THE OIL & GAS INDUSTRY Mike Lewis</p> <p>FTS Engineering Answers Ltd Oil and Gas</p> | |
| 2:50pm-3:15pm | <p>SIMULATIONS OF HIGH SPEED TRAINS Steve Cochard</p> <p>Stadler Rail Ground Transportation</p> | <p>ANALYSIS OF DISTRIBUTED ELECTRIC PROPULSION Felix Schöfer</p> <p>Lillium GmbH Aerospace</p> | <p>COUPLED ACOUSTIC AND FLOW SIMULATIONS OF AN ULTRAS Vivek Kumar and Panagiotis Papanthasios</p> <p>Endress+Hauser Flowtec AG Chemical Process Industry</p> | <p>SLUG FLOW STUDY ALONG DIFFERENT WELL TRAJECTORIES Esteban Guerrero and Nicolás Ratkovich</p> <p>Universidad de los Andes Oil and Gas</p> | <p>EFFECTS OF MESHING STRATEGIES ON IN-CYLINDER FLOWS Stefano Fontanesi</p> <p>University of Modena and Reggio Emilia Internal Combustion Engines</p> |
| 3:15pm-3:40pm | <p>AERODYNAMIC CROSSING TRAMWAYS IN TUNNEL Huu-Thi Do</p> <p>ALSTOM Ground Transportation</p> | <p>ICE ACCRETION AERODYNAMICS SIMULATION Julien Vitet</p> <p>Assystem France Aerospace</p> | <p>CFD ANALYSIS OF SEDIMENTATION PHENOMENA Nelson Marques and Pedro Fonseca Pedro Fonseca</p> <p>FSD blueCAPE Chemical Process Industry</p> | <p>CFD MODELING OF GAS-LIQUID CYLINDRICAL CYCLONES Juan Berrio and Esteban Guerrero</p> <p>Universidad de los Andes Oil and Gas</p> | <p>MODELING OF IN-CYLINDER FLOW USING OVERSET MESH Yangbing Zeng</p> <p>General Motors Holding, LLC Internal Combustion Engines</p> |
| 3:40pm-4:15pm | COFFEE BREAK | | | | |
| 4:15pm-4:40pm | <p>CFD-AIDED DESIGN OF MIXERS FOR THE UREA INJECTION Ivan Flaminio Cozza</p> <p>GM Global Propulsion Systems - Torino s.r.l. Powertrain</p> | <p>REDUCING CFD LATENCY IN AERO DESIGN EVALUATIONS Trevor Orr</p> <p>X Aerospace</p> | <p>WHAT'S HAPPENING INSIDE FIXED-BED REACTORS? Gregor D. Wehinger and Nico Jurtz</p> <p>Technische Universität Berlin Chemical Process Industry</p> | <p>ANALYSIS IN LARGE SCALE NUCLEAR BUILDINGS Olivier Bernard</p> <p>AREVA NP SAS Nuclear</p> | <p>EXPLORING PERFORMANCE OF DIESEL ENGINE USING HEEDS Karl Oberhumer</p> <p>HEEDS Design Exploration Team Internal Combustion Engines</p> |
| 4:40pm-5:05pm | <p>EXHAUST MANIFOLD THERMAL ASSESSMENT OPTIMIZATION Ipek Duman</p> <p>Ford Otosan Powertrain</p> | <p>DYNAMIC STABILITY OF A MANNED VTOL AIRCRAFT Vishakh Begari Prakash</p> <p>Lillium GmbH Aerospace</p> | <p>CFD-DEM STUDY IN THE 20L EXPLOSION SPHERE Mariangel Amin and Andres Pinilla</p> <p>Universidad de los Andes Chemical Process Industry</p> | <p>EROSION OF ADVANCED TEST REACTOR FUEL ELEMENTS Thomas Eiden</p> <p>Idaho National Laboratory Nuclear</p> | <p>PISTON BOWL OPTIMIZATION USING STAR-CD AND HEEDS Nicola Giovannoni</p> <p>University of Modena and Reggio Emilia Internal Combustion Engines</p> |
| 5:05pm-5:30pm | <p>EGR PUMPING CAPABILITY OPTIMIZATION ASSESSMENT Burak Bayrak</p> <p>Ford Otosan Powertrain</p> | <p>APPLICATION OF STAR-CCM+ TO HELICOPTER ROTOR HOVER Lakshmi Sankar</p> <p>Georgia Institute of Technology Aerospace</p> | <p>MULTI-SCALE MODELING OF FLUID BED GRANULATION Rohit Ramachandran</p> <p>Rutgers University Chemical Process Industry</p> | <p>COUPLED CFD-STH ANALYSIS OF LIQUID METAL FLOWS Marti Jeltsov</p> <p>KTH Royal Institute of Technology Nuclear</p> | <p>CFD SIMULATION OF GDI ENGINE COLD START Yongwook Yu</p> <p>Hyundai Motor Company Internal Combustion Engines</p> |
| 5:30pm-5:55pm | <p>DURABILITY ANALYSIS OF FOULED EGR COOLER Raimund Vedder</p> <p>Atlanting GmbH Powertrain</p> | <p>DEICING SYSTEM ADVANCES BY ICE ACCRETION MODELING Kevin Yugulis</p> <p>Battelle Memorial Institute Aerospace</p> | <p>STEAM REFORMING IN A PACKED BED MEMBRANE REACTOR Nico Jurtz</p> <p>TU Berlin Chemical Process Industry</p> | <p>FIRE PROPAGATION ANALYSIS WITH STAR-CCM+ Benjamin Chazot</p> <p>AREVA NP SAS Nuclear</p> | <p>DUAL FUEL ENGINE CHARGE MOTION & COMBUSTION STUDY Kamlesh Ghael</p> <p>Universität Duisburg Essen Internal Combustion Engines</p> |
| 6:30pm-10:30pm | CONFERENCE DINNER | | | | |

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