

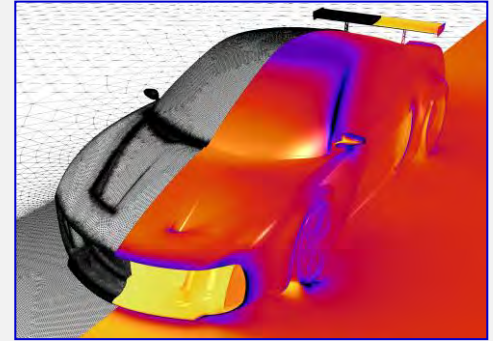
ANSA and META references
in the CFD literature

2021

“ANSA for high fidelity CFD mesh generation”

L. Agricola, Corvid Technologies

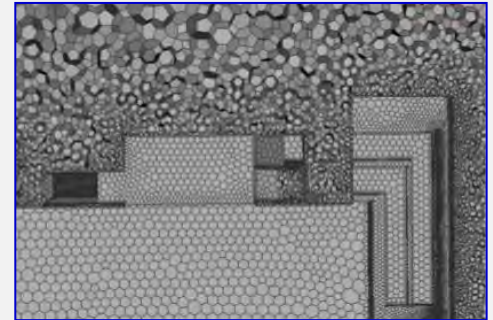
Presented at the BETA CAE Systems 2021 North America Open Meeting, December 7-8, 2021



“Assessment of harmful exhaust gases dispersion in the nearby of building HVAC system elements using CFD”

G. Piscitelli et al., RINA Consulting S.p.A.

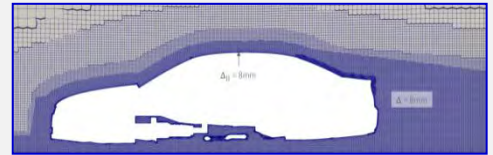
Presented at the International CAE Conference, Vicenza, Italy, November 17-19, 2021



“Evaluation of DES with enhanced shielding for complex automotive aerodynamics”

C. Mockett et al, Upstream CFD

Presented at the 2nd High Fidelity Industrial LES/DNS Symposium HiFiLeD, September 22-24, 2021

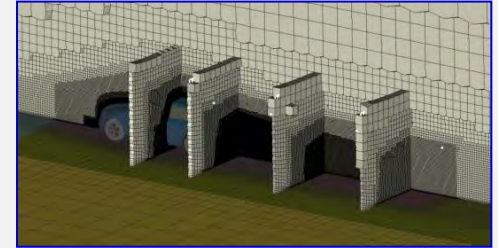


2019-2021

“Committee grids for Case 2”

V. Skaperdas, BETA CAE Systems

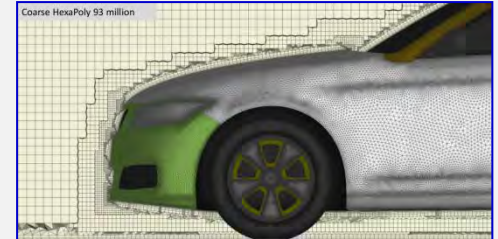
Presented at the 2nd Automotive CFD Prediction Workshop, August 26-27, 2021



“University of Oxford Submission Case 2a and 2b”

N. Ashton, Oxford University

Presented at the 1st Automotive CFD Prediction Workshop, Oxford UK, December 11-12, 2019

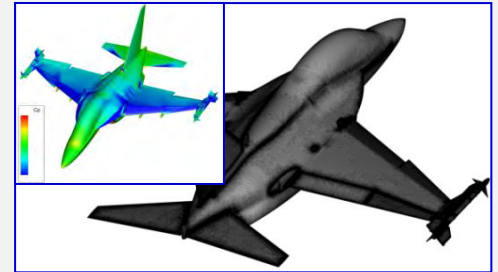


“Aerodynamic Datasets generation by means of CFD ”

D. Muffo, Leonardo Company, Italy

M di Nonno, BETA CAE Italy

Presented at the 35th International CAE Conference, Vicenza Italy, October 28-29, 2019



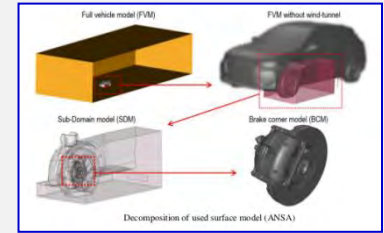
2019

“A CFD method to simulate brake liquid and disc temperature monolithically”

S. Yigit et al, Opel Automobile GmbH

C. Ribes, PSA

Presented at the 12th FKFS Conference, Munich, Stuttgart, October 1-2, 2019

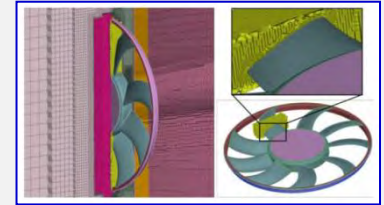


“Aspects of fan modeling for underhood thermal management CFD”

M. Kornhaas et al, Opel Automobile GmbH

C. Ribes et al, PSA

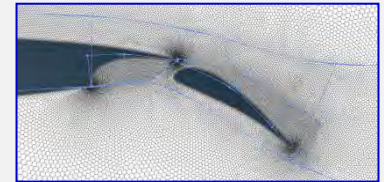
Presented at the 12th FKFS Conference, Munich, Stuttgart, October 1-2, 2019



“Aeroacoustic prediction of a three-element high-lift airfoil using a grey-area enhanced DES model”

M. Fuchs et al, CFD Software E+F GmbH, Germany

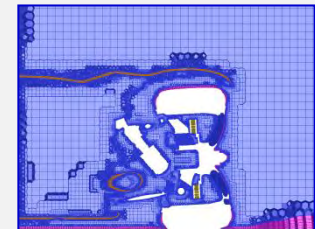
Presented at the 25th AIAA/CEAS Aeroacoustics Conference, Delft, May 20-23, 2019, AIAA 2019-2462



“Automation in pre- and post-processing in Ferrari GT cars project”

L. Mariella, R. Curatola, Ferrari S.p.A.

Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019

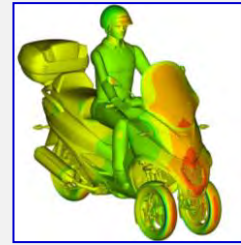


2019

“The pre-processing priority in fluid dynamics design”

M. Maganzi et al., Cubit Innovation Labs

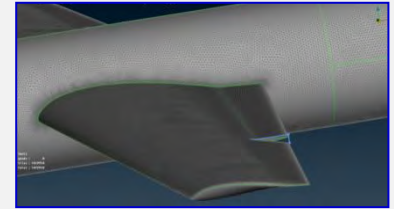
Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019



“Building a full UAV aerodynamic database using ANSA pre-processor automated meshing tool”

D. Gillad, Elbit Systems - ISTAR

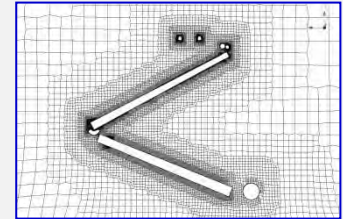
Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019



“Investigation of aerodynamic loading on a train pantograph”

K. Ritos et al., University of Strathclyde

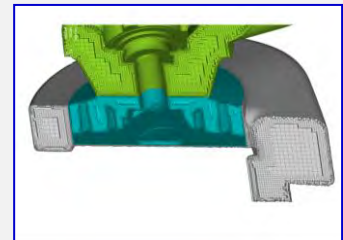
Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019



“Multidisciplinary simulation of automotive water pumps”

R. De Donno, Industrie Saleri

Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019

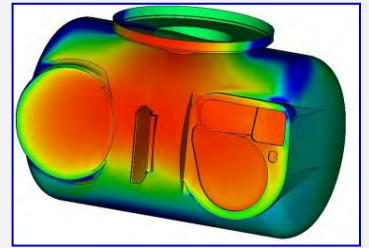


2018-2019

“External flow analysis (CFD) for an Airborne Gimbal”

D. Lozano, Elbit Systems - ISTAR

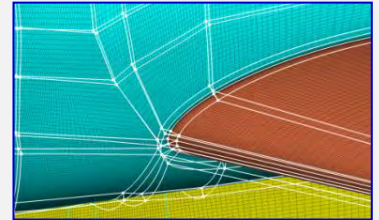
Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019



“Contribution of BETA-CAE to GMGW-2”

V. Skaperdas, BETA CAE Systems

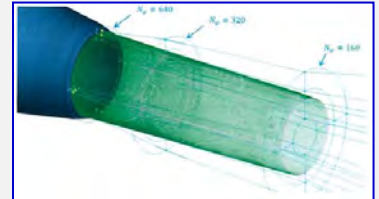
Presented at the 2nd AIAA Geometry and Mesh Generation Workshop, San Diego, USA, January 5-6, 2019



“Industrial prediction of jet-flap interaction noise with advanced hybrid RANS-LES methods”

C. Mockett et al. , CFD Software E+F GmbH, Germany

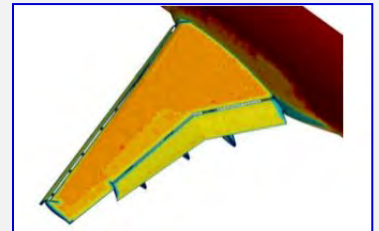
Presented at the 7th Symposium on Hybrid RANS-LES Methods, Berlin, Germany, September 17-19, 2018



“Investigation of RANS modelling techniques applied to the 3rd AIAA High Lift Prediction workshop test cases”

M. Zastawny et al., Siemens PLM Software, UK

Presented at RAeS The Future of Aerodynamics Conference, Bristol, UK, June 24-26, 2018

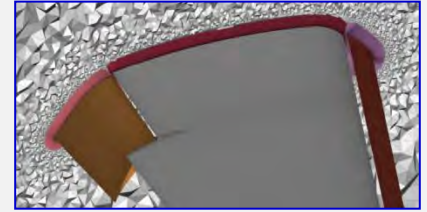


2017

“Embraer contribution to GMGW-1”

M. Souza et al., Embraer, Brazil

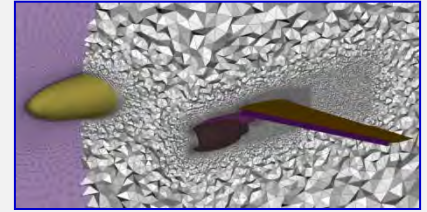
Presented at the 1st AIAA Geometry and Mesh Generation Workshop, Denver, USA, June 3-4, 2017



“University of Oxford – BETA-CAE Systems contribution to HLPW-3”

N. Ashton, Oxford University, UK

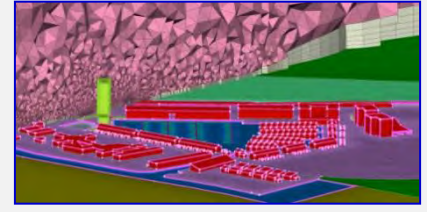
Presented at the 3rd AIAA High Lift Prediction Workshop, Denver, USA, June 3-4, 2017



“The challenge of many different applications solved by ANSA”

T. Fahner, Actiflow, The Netherlands

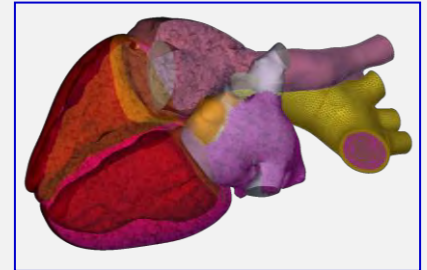
Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017



“Mesh generation for geometries in biomechanics”

S. Gomez, Barcelona Supercomputing, Spain

Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017



2017

“Utilizing ANSA and META scripting capabilities for propeller generation, evaluation and post-processing”

L. Johansson, Volvo Penta, Sweden

Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017

“ANSA pre-processing strategies for multiphysics simulation of a motorcycle helmet”

M. Pischiutta, Nolan, Italy

Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017

“Influence of micro-CT extracted 3D porous media geometry on CFD simulation results”

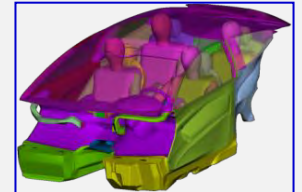
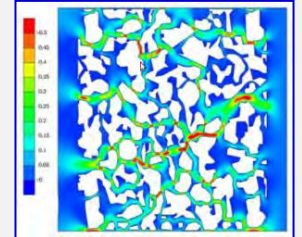
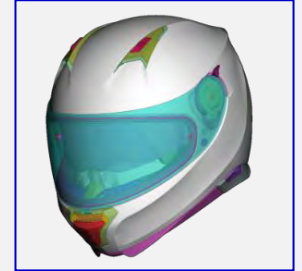
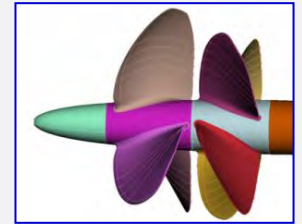
M. Aboukhedr, City University of London, UK

Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017

“Application of ANSA morphing and optimization tools for an automotive HVAC system”

M. Maganzi, University of Pisa, Italy

Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017



2016

“Customized developments for AUDI’s OpenFOAM processes”

R.Borris, AUDI AG, Germany

Presented at the 4th ESI OpenFOAM Conference, Cologne, Germany, October 11-12, 2016

“Assessment of enhanced aeroacoustics features in OpenFOAM for landing gear noise prediction”

C. Mockett et al. , CFD Software E+F GmbH, Germany

Presented at the 4th ESI OpenFOAM Conference, Cologne, Germany, October 11-12, 2016

“Drag prediction workshop 6”

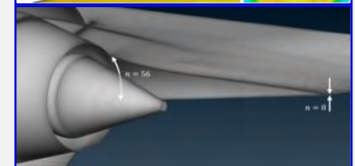
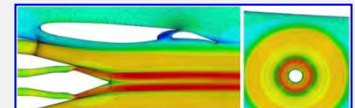
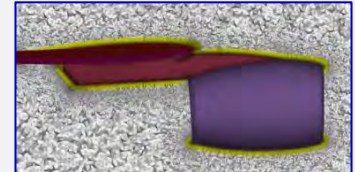
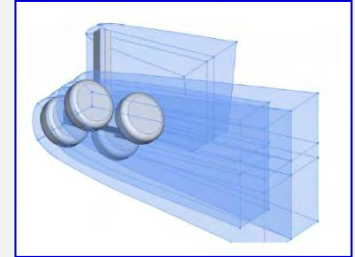
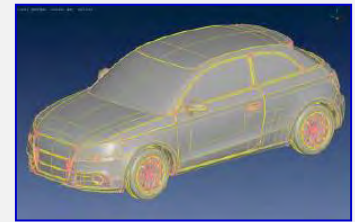
N. Ashton et al. , University of Oxford, UK

Presented at the 6th AIAA CFD Drag Prediction Workshop, Washington D.C., USA, June 2016

“Turbulence modelling and meshing developments for the prediction of jet noise installation effects”

C. Mockett et al. , CFD Software E+F GmbH, Germany

Presented at the 22nd AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30 – June 1, 2016 (AIAA 2016-2933)



2015

“The influence of mesh characteristics on OpenFOAM simulations of the DrivAer model”

G. Fotiadis et al. , BETA CAE Systems, Greece
Presented at the Thermal Systems and Aerodynamic Solutions for Ground Vehicles, ATA Conference, Torino, Italy, 17-19 June, 2015

“The tetrahedral finite cell methods for fluids: Immersogeometric analysis of turbulent flow around complex geometries”

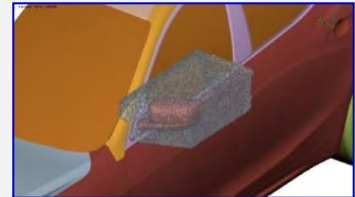
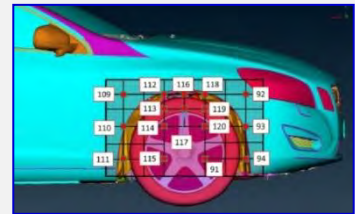
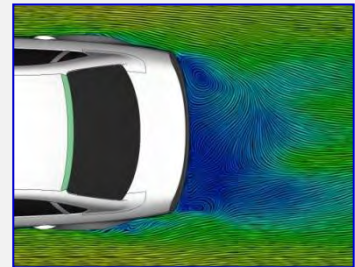
F. Xu et al. , Iowa State University, Ames, USA
Journal of Computers and Fluids 2015.08.027, June 2015

“Numerical and experimental investigations of brake cooling for passenger cars”

A. Vdovin, Chalmers University of Technology, Sweden
Presented at the 2nd European Conference for Thermal Systems and Aerodynamic Solutions for Ground Vehicles, Torino, 17-19 June 2015

“Efficient simulation of aerodynamic noise generation and propagation from a vehicle’s side mirror”

R. Rizzuto, FIAT Chrysler Automobiles, Italy
Presented at the 2nd European Conference for Thermal Systems and Aerodynamic Solutions for Ground Vehicles, Torino, 17-19 June 2015

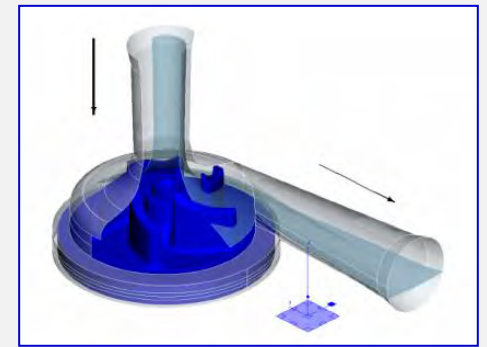


2013-2014

“Adjoint optimization of a coolant pump impeller”

S. Baumbach, Volkswagen AG, Germany

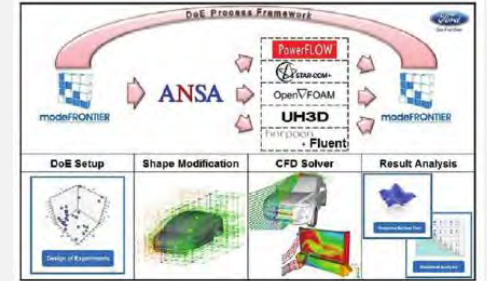
Presented at the 11th World Congress on Computational Mechanics, Barcelona, 20-25 July 2014



“Aerodynamic and Flow Simulations come of age”

B. Morey

Automotive Engineering, April 2014

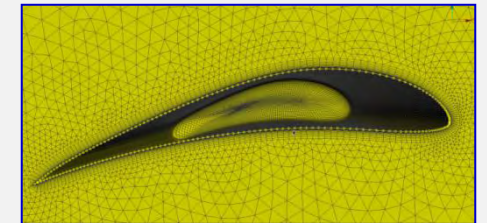


“Design, performance evaluation and optimization of a UAV”

S. Kontogiannis and J. Ekaterinaris, University of Patras, Greece

AIAA 2013-0357

Presented at the 51st AIAA Aerospace Sciences Meeting, Grapevine, Texas, 7-10 January 2013



2013

“The influence of mesh characteristics on CFD simulations for automotive applications”

V. Skaperdas, A. Iordanidis, BETA CAE Systems S.A., Greece

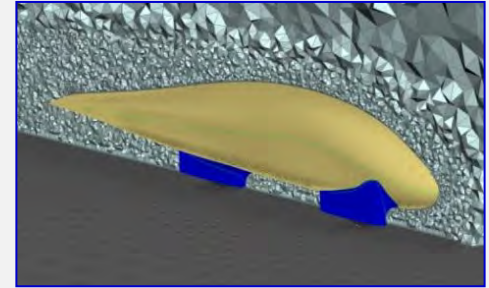
Presented at the ANSYS Automotive Simulation Congress Group, Frankfurt am Main, 29-30 October 2013



“A revolution in solar vehicle design”

R. Stephens, Cambridge University, UK

Presented at the ANSYS Automotive Simulation Congress Group, Frankfurt am Main, 29-30 October 2013



“Aerodynamic simulation in the development of a WRC Rally Car”

H. Dechipre, Volkswagen Motorsport GmbH, Greece

Presented at the Open Source CFD International Conference, Hamburg, 24-25 October 2013



2013

“Mapping of cavitating flow regimes in injectors for medium/heavy-duty diesel engines”

N. Mitroglou, M. Gavaises, City University, UK
International Journal of Engine Research DOI:10.1177/1468087413500491, 24 October 2013

“CFD thermodynamic analysis of 3-dimensional sector-pad thrust bearings with rectangular dimples”

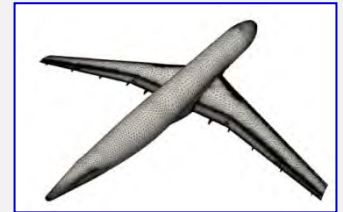
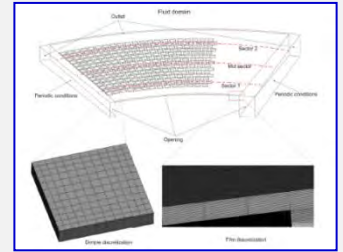
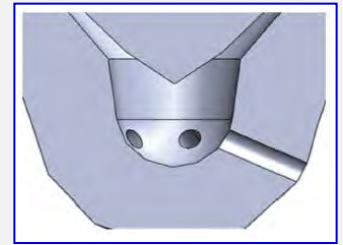
C. Papadopoulos, L. Kaiaktsis, NTUA, Greece
M. Fillon, ISAE-ENSMA, France *Journal of Tribology, ASME* DOI:10.1115/1.4025245, 3 October 2013

“Time resolved adaptive FEM simulations of a DLR F11 full aircraft at a realistic Reynolds number”

J. Hoffman et al., KTH, Sweden
Presented at the 2nd AIAA High Lift Prediction Workshop, San Diego CA, USA, 22-23 June 2013

“Multi function CFD model creation: A step towards simulation data management”

D. Wellman, Jaguar Land Rover, UK
Presented at 2013 NAFEMS World Congress, Salzburg, Austria, 10-12 June 2013



2012

“An accurate, extensive, and rapid method for aerodynamics optimization: The 50:50:50 Method”

T. Virdung, ANSYS, Sweden

Presented at the NAFEMS Nordic Conference, Gothenburg, Sweden, 22-23 May 2012

“Managing Form, Function and Process, the Aerodynamic Development of the 2011 Ford Ranger Global Compact Pick-Up with STAR-CCM+”

N. Lewington et. al., Ford Motor Company, Australia

Presented at STAR Global Conference, Amsterdam, Netherlands, 19-21 March 2012

“Computations of aeroacoustic sources for a complex landing gear geometry using adaptive FEM”

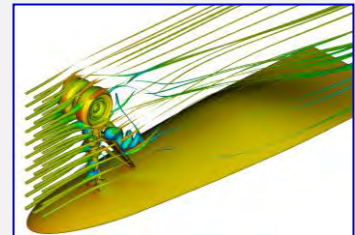
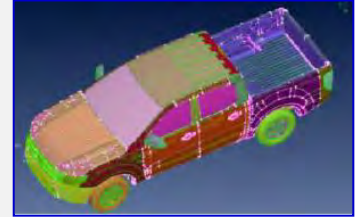
R. V. De Abreu, N. Jansson, J Hoffman., KTH, Sweden

*Presented at Workshop on Benchmark problems for Airframe noise computations, BANC -II,
Colorado Springs, USA, 7-8 June 2012*

“Mesh study for external aerodynamics CFD simulations with OpenFOAM”

V. Skaperdas, A. Iordanidis., BETA CAE Systems S.A. , Greece

Presented at Open Source CFD International Conference, London, UK, 29-30 October 2012



2011

“Wind Turbine Blade CFD & Mechanical Optimization using Industrial Grade Tools”

D. Speziani et. al., Phitec Ingeneria Srl, Italy

Presented at 4th Open Source CFD International Conference, Chantilly, France, November 2011

“CFD Optimization via Sensitivity Based Morphing”

C. Othmer, Volkswagen AG, Germany

E. Papoutsis, National Technical University of Athens, Greece

K. Haliskos, BETA CAE Systems S.A., Greece

Presented at the 4th ANSA & μ ETA International Conference, Makedonia Palace, Thessaloniki, Greece, 1-3 June 2011

“CFD Simulations of flow over NASA Trap Wing Model”

A. Luo, Swift Engineering, USA

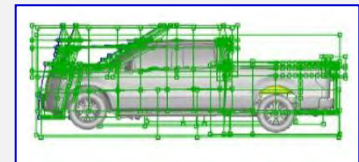
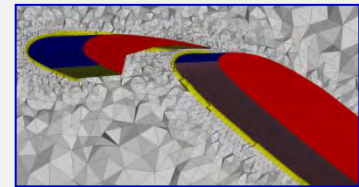
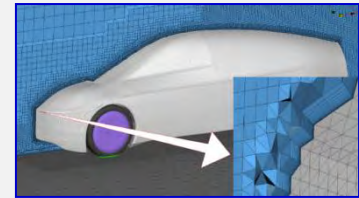
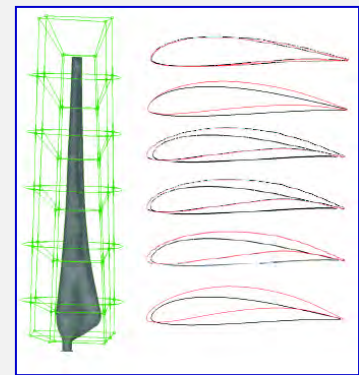
P. Peddiraju, V. Skaperdas, BETA CAE Systems S.A., Greece

Presented at the 4th ANSA & μ ETA International Conference, Makedonia Palace, Thessaloniki, Greece, 1-3 June 2011

“Vehicle Aerodynamic Shape Optimization”

R. Lietz, Ford Motor Co., USA

SAE 2011-01-0169



2010-2011

“Thermal simulation of an exhaust manifold in a high performance diesel engine”

C. Krenn, G. Hofer, M. Prosi, C. Samhaber, G. Pessl
BMW Motoren GmbH, Austria
University of Applied Science, FH Wels, Austria, *Presented at the STAR European Conference Noordwijk, The Netherlands, 22-23 March 2011*

“CFD Analysis of the performance of a fast catamaran with rough sea”

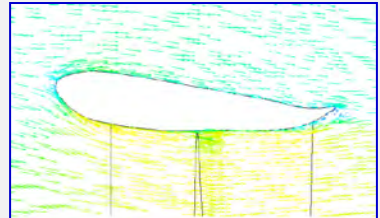
G. Lombardi, M. Maganzi
University of Pisa, Italy
Presented at the STAR European Conference, Noordwijk, The Netherlands, 22-23 March 2011

“Further CFD validation for automotive aerodynamics development”

T. Schutz, P. Unterlechner, K. Zens, AUDI AG., Germany
Presented at the 4th Open Source CFD International Conference, Munich, Germany, 4-5 November 2010

“Optimization for Improved Propulsive Efficiency and Increased Bollard Pull”

T. Huuva, M. Pettersson
Berg Propulsion, Sweden
Presented at the 13th Numerical Towing Tank Symposium, Duisburg, Germany, 10-12 October 2010



2010

“Effects of wheel orientation on predicted flow field and forces when modelling rotating wheels using CFD”

C. Landstrom, L. Lofdahl, Chalmers Technical University, Sweden

S. Sebben, Volvo Car Corporation, Sweden

Presented at the 8th MIRA International Vehicle Aerodynamics Conference

RBS Williams F1 Conference Centre, UK, 13-14 October 2010

“Application of multi objective optimization to the aerodynamic development of passenger cars at FIAT”

E. Ribaldone et. al., Centro Ricerche FIAT, Italy

G. Scantamburlo et. al., FIAT, Italy

Presented at the 8th MIRA International Vehicle Aerodynamics Conference

RBS Williams F1 Conference Centre, UK, 13-14 October 2010

“Validation of open source CFD methods used for race cars”

P. Rubio, R. Bouwman, ICON Technology & Process Consulting GmbH, Germany

B. Jacquet AUDI AG., Germany

Presented at the 8th MIRA International Vehicle Aerodynamics Conference

RBS Williams F1 Conference Centre, UK, 13-14 October 2010

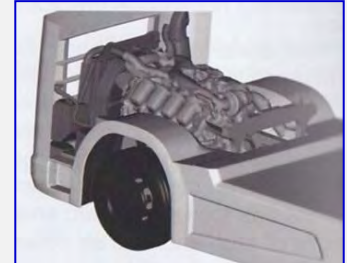
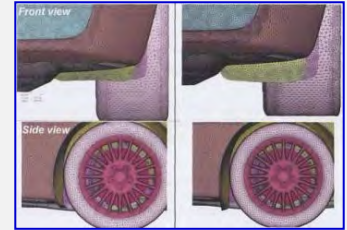
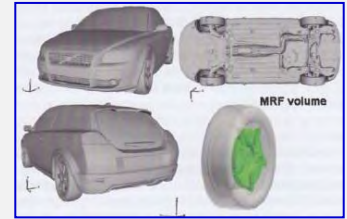
“Flow field investigation of the wheel housing opening shape on a heavy truck using CFD”

D. Soderblom, L. Lofdahl, Chalmers Technical University, Sweden

P. Elofsson, Scania, Sweden, L. Hjelm, Volvo 3P, Sweden

Presented at the 8th MIRA International Vehicle Aerodynamics Conference

RBS Williams F1 Conference Centre, UK, 13-14 October 2010



2010

“Efficient and robust method of drag optimization during car body development process”

K. Przynsowa, J. Rokicki, Warsaw University of Technology, Poland
C. Othmer, Volkswagen AG, Germany

*Presented at the 8th MIRA International Vehicle Aerodynamics Conference
RBS Williams F1 Conference Centre, UK, 13-14 October 2010*

“Design and Analysis of a light cargo UAV prototype”

A. Kovanis, J. Ekaterinaris, University of Patras, Greece
V. Skaperdas, BETA CAE Systems SA, Greece
AIAA 2010-4957

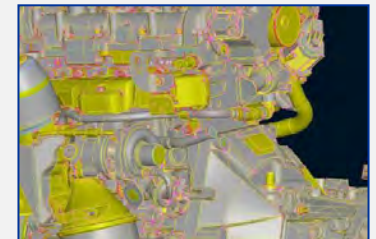
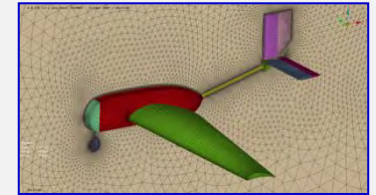
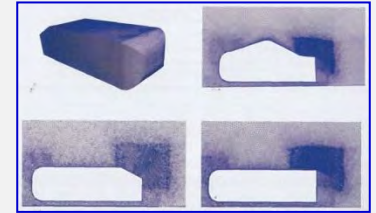
Presented at the 28th Applied Aerodynamics Conference, Chicago Illinois, USA, June 2010

“Assessment of Various Environmental Thermal Loads on Passenger Thermal Comfort”

T. Han et. al., GM R&D Centre, USA
A. Curran et. al., Thermoanalytics Inc., USA, SAE 2010-01-1205

“The virtual climatic wind tunnel project”

J. Arbiol, E. Aramburu
IDIADA, Spain
Presented at the STAR European Conference, London, UK, March 2010



2009-2010

“Free motion simulation of a sailing yacht in up-wind condition with rough sea”

G. Lombardi, M. Maganzi, A. Mariotti
University of Pisa, Italy

Presented at the STAR European Conference, London, UK, March 2010

“Automating the CFD Process at Swenox – a scripted story”

M. Christiansson, U. Engdar, Swenox AB and FS Dynamics, Sweden

Presented at STAR European Conference, London, UK, March 2010

“Advanced pre-processing solutions for OpenFOAM”

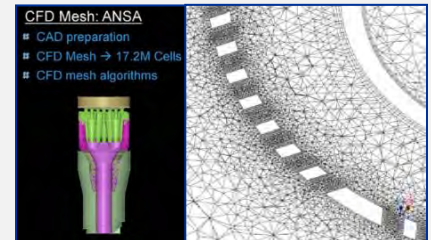
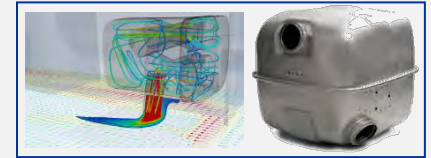
V. Skaperdas, S. Saltiel, C. Kolovos, BETA CAE Systems S.A. Greece

Presented at 3rd Open Source CFD International Conference, Barcelona, Spain, November 2009

“Predicting and improving the performance of a bagless vacuum cleaner using CFD”

F. Campos, D. Sykes, ICON Ltd, UK
J. Ferguson, Hoover Candy Group, UK

Presented at 3rd ANSA & μ ETA International Conference, Porto Carras, Halkidiki, Greece, September 2009



2008

“Aerodynamic Development of the Skoda Roomster”

J. Jagrik, S. Klepacek, J. Hulicka, V. Jakubec, Skoda AUTO A.S. Czech Republic
Presented at 7th MIRA Aerodynamics Conference, Coventry, UK, October 2008

“Latest Development in Thermal Transient Simulation in Car Passenger Compartment”

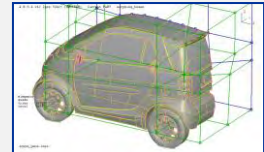
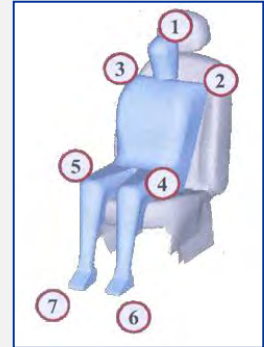
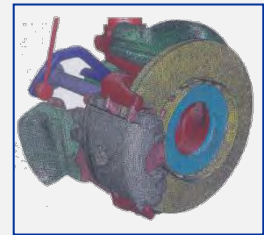
G. Scantamburlo, P. Orsi, N. di Vico, Fiat Group Automobiles, Italy
E. Ribaldone, Centro Ricerche FIAT, Italy
Presented at 7th MIRA Aerodynamics Conference, Coventry, UK, October 2008

“Étude in CFD pre-processing”

E. Skaperdas, C. Kolovos BETA CAE Systems S.A., Greece
Presented at 7th MIRA Aerodynamics Conference, Coventry, UK, October 2008

“CFD Meshing for Aerodynamics of the Volvo XC 90”

Zenitha Chronéer, Volvo Cars Corporation, Sweden
ATZ Magazine 03/2008 volume 110



2008

“The role of Aerodynamics in the 1955 Le Mans Crash”

P. Gullberg, L. Löfdahl, Chalmers University of Technology, Sweden
SAE 2008-01-2996

“Parametric Shape Optimization”

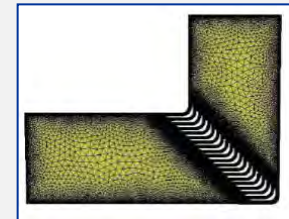
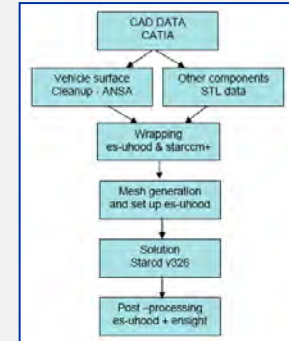
D. Joshi, X. Zhu, K. Singh, Chrysler LLC
SAE 2008-01-1431

“CFD Simulation of NASCAR Racing Car Aerodynamics”

R. Singh, General Motors Corporation
SAE 2008-01-0659

“Calculations of Wind Tunnel Circuit Losses and Speed with Acoustic Foams”

Y. Yeh, F. Schenkel, F. Meinert, R. Niemiec, General Motors
SAE 2008-01-1203



2007-2008

“Development of a Model Scale Heat Exchanger for Wind Tunnel Models of Road Vehicles”

L. Christoffersen, D. Söderblom, L. Löfdahl, Chalmers University of Technology
A. Jönson, Volvo Car Corporation, Sweden, SAE 2008-01-0097

“Application of Emergent Aerodynamic Calculation Tools”

K. Zielinski, Honda R&D America Inc
J. Eccles, Honda Racing F1

SAE 2008-01-0096

“Under-hood Thermal Simulation of a Class 8 Truck”

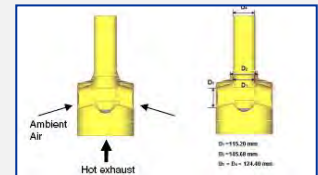
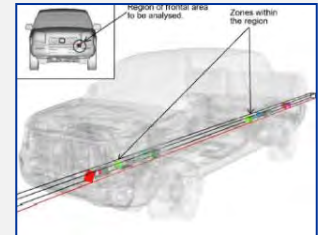
C. Lafferty, Volvo Group North America
A. Alajbegovic, K. Horrigan, EXA Corporation

SAE 2007-01-4280

“Compact Post-Aftertreatment Temperature Control Device for Exhaust Gas Cooling”

T. Juan, M. Schmale, R. Schoon, M. Eifert, International Truck and Engine Corp

SAE 2007-01-4199



2007

“Accurate Modeling of the Thermal Behavior of a Diesel Engine by Means of CFD and its Validation”

S. Etemad, T. Hagner, Volvo Car Corporation, Sweden
C. Stein, FS Dynamics, Sweden

SAE 2007-01-1905

“Reduction in Vehicle Temperatures and Fuel Use from Cabin Ventilation, Solar-Reflective Paint, and a New Solar-Reflective Glazing”

J. Rugh, L. Chaney, J. Lustbader, National Renewable Energy Laboratory
J. Meyer, Visteon

SAE 2007-01-1194

“A CFD Application of Surface Morphing for Vehicle Exterior Development”

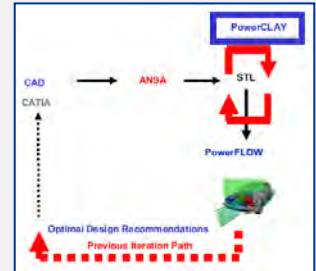
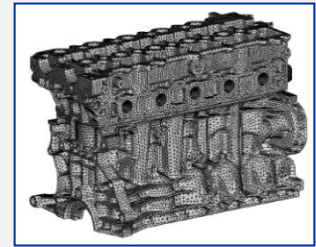
X. Zhu, M. Gleason, DaimlerChrysler Corporation CG
K. Sbeih, EXA Corporation

SAE 2007-01-0110

“The Immersed Boundary CFD Approach for Complex Aerodynamics Flow Predictions”

S. Jindal, B. Khalighi, J. Johnson, K. Chen, General Motors, USA
G. Iaccarino, Stanford University, USA

SAE 2007-01-0109



2007

“Large Eddy Simulation of a Semi Realistic Vehicle Shape under Crosswind”

Alexis Scotto d’Apollonia, Stéphane Contini, PSA, France
Fabrice Mathey, Yannick Ducret, ANSYS/Fluent, France

Presented at EACC 2007 – 3rd European Automotive CFD Conference, Frankfurt, Germany, July 2007



“Fuel Reduction on a Tractor Trailer Truck at IVECO”

Ludovico Consano, Davide Lucarelli, IVECO S.p.A., Italy
Filippo Luppò, TESCO S.p.A., Italy

Presented at EACC 2007 – 3rd European Automotive CFD Conference, Frankfurt, Germany, July 2007



“Automatic Optimisation of Automotive Designs Using Mesh Morphing and CFD”

Francisco Campos, ICON, UK
Paolo Geremia, ESTECO, UK
Evangelos Skaperdas, BETA CAE Systems S.A., Greece

Presented at EACC 2007 – 3rd European Automotive CFD Conference, Frankfurt, Germany, July 2007



“Aerodynamic Optimization of a Speedbike by the Means of CFD”

R. Siber, F. Werner, Adam Opel GmbH, Germany
G. Mertens, VRT Speedbike e.V., Germany
M. Lanfrit, Fluent Deutschland GmbH, Germany

Presented at EACC 2007 – 3rd European Automotive CFD Conference, Frankfurt, Germany, July 2007

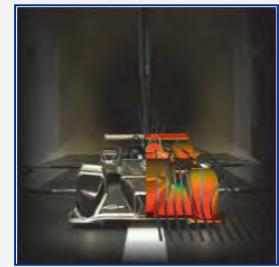


2006-2007

“Combined Use of CFD and Wind Tunnel to develop a Le Mans Prototype”

Alexis Lapouille, Aero Concept Engineering, France

Presented at EACC 2007 – 3rd European Automotive CFD Conference, Frankfurt, Germany, July 2007



“The CFD Process for Aerodynamics at Volvo Cars using HARPOON FLUENT”

Zenitha Chronéer, Environment and TASE, Volvo Car Corporation, Sweden

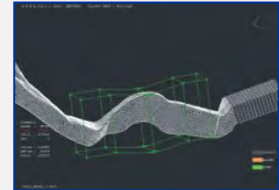
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“ANSA for CFD – Overview and Outlook”

M. Lanfrit, Fluent Deutschland GmbH,
ANSYS Central & Eastern Europe, Germany

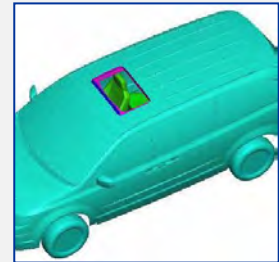
Presented at 2nd ANSA & μ ETA International Congress, Halkidiki, Greece, June 2007



“Optimization Study for Sunroof Buffeting Reduction”

Chang-Fa An and Kanwerdip Singh, DaimlerChrysler, USA

SAE 2006-01-0138



2005-2006

“Needs and Possibilities for the Correction of Drag and Lift Wheel Forces which have been Derived by Integrating its Static Pressure Distribution”

A. Hashmi and I. Dimitriou, BMW Group, Germany

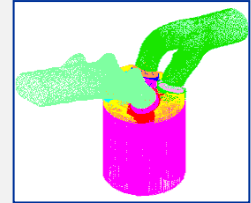
SAE 2006-01-3623



“Heat Transfer Analysis and Cycle Averaged Heat Flux Prediction by Means of CFD and its Validation for an IC-Engine”

S. Etemad, C. F. Stein and S. Eriksson, Volvo Car Corporation, Sweden

SAE 2005-01-2029



“Attempts for Reduction of Rear Window Buffeting Using CFD”

Chang-Fa An, Exa Corporation, USA
Mitchell Puskarz, Kanwerdip Singh and Mark E. Gleason, DaimlerChrysler Corporation, USA

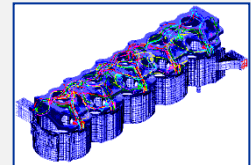
SAE 2005-01-0603



“CFD-Analysis of Cycle Averaged Heat Flux and Engine Cooling in an IC-Engine”

S. Etemad, J. Wallesten, C.F. Stein, S. Eriksson
and K. Johansson, Volvo Car Corporation, Sweden

SAE 2005-01-0200

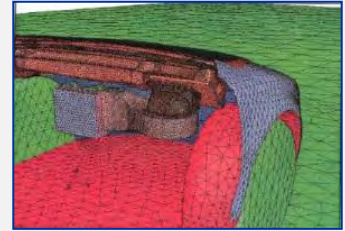


2005

“An Overview of the Application of CFD at Skoda Auto”

F. Paur, M. Stastny, J. Jagrik, Skoda Auto A.S., Mlada Boleslav, Czech Republic

Presented at EACC 2005 – 2nd European Automotive CFD Conference, Frankfurt, Germany, June 2005



“Customizing FLUENT to Speed-Up Aerodynamic Vehicle Development”

Silvestre Artiaga Hahn, Nicolas Kruse, Frank Werner

Presented at EACC 2005 – 2nd European Automotive CFD Conference, Frankfurt, Germany, June 2005



“Design Optimization using CFD and Mesh Deformation”

Robert Lewis, Matthew Cross, Advantage CFD, Brackley, UK

Presented at EACC 2005 – 2nd European Automotive CFD Conference, Frankfurt, Germany, June 2005



“ANSA as a Preprocessor for CFD Simulations with FLUENT – Approach and Examples”

M. Ehlen, Fluent Deutschland GmbH, Germany

Presented at 1st ANSA & μ ETA International Congress, Halkidiki, Greece, June 2005



2004-2005

“An Efficient Procedure for Vehicle Thermal Protection Development”

Kumar Srinivasan, George Woronowycz,

Michael Zabat and John Tripp, DaimlerChrysler Corporation, USA

SAE 2005-01-1904

“Prediction of the Efficiency of an Automotive Oil Separator: Comparison of Numerical Simulations with Experiments”

Sydney Tekam and Marc Demoulin, Renault S.A., France

Virginie Daru, Ecole Nationale Supérieure des Arts et Métiers, France

SAE 2004-01-3019

“Side Window Buffeting Characteristics of an SUV”

Michael S. Scislowicz and Kanwerdip Singh, Daimler Chrysler Corp.

Sandeep D. Sovani, Fluent Inc.

Seyed Mehdi Alaie, Optimal CAE Inc.

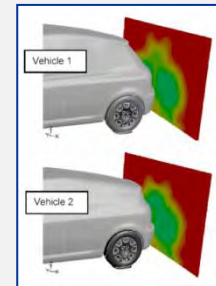
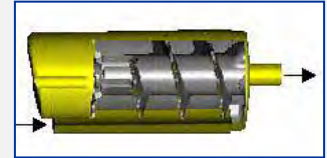
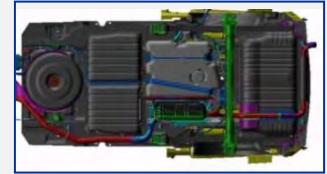
Chang-Fa An, Belcan Corporation

SAE 2004-01-0230

“Design of Experiments Methods Applied to CFD Simulations in Vehicle Aerodynamics”

A. Scotto d’Apollonia, B. Granier, P. Debaty, PSA Peugeot Citroen, France

SAE 2004-01-0443



2003-2004

“Motor Sport Drives CFD Technology to a New Level”

Werner Seiber, Fluent Deutschland GmbH
Robert Lewis, Advantage CFD, UK

Presented at Global Motorsports Congress, Frankfurt, Germany, November 2004

“Simulation and analysis of the cooling of the break disk”

Jiří Polanský, Petr Kovařík, New Technologies Research Centre,
University of West Bohemia, Czech Republic

Presented at 5th MIRA International Vehicle Aerodynamics Conference, Warwick, UK, October 2004

“Early Design Stage Simulation Process for External Aerodynamics at PSA Peugeot Citroen”

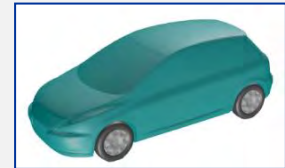
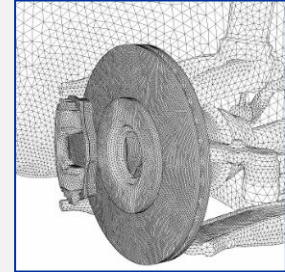
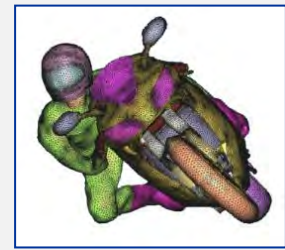
A. Scotto d’Apollonia, B. Granier, B. Amalric, P. Debaty, PSA Peugeot Citroen, France

*Presented at EACC 2003 – 1st European Automotive CFD Conference,
Bingen, Germany, June 2003*

“CFD Validation for External Aerodynamics”

R. Lewis, P. Postle Advantage CFD, UK

Presented at EACC 2003 - 1st European Automotive CFD Conference, Bingen, Germany, June 2003



2002-2003

“CFD as an Integrated Part of the Aerodynamic Development of the OPEL ECO-Speedster”

A. Kleber Adam Opel AG, Germany

Presented at EACC 2003 – 1st European Automotive CFD Conference, Bingen, Germany, June 2003

“Formula 1 External Aerodynamics”

Sauber Petronas Engineering AG, Switzerland

FLUENT Application Brief Paper EX-166, Copyright © 2002 Fluent Inc.

“Improving Truck Underhood Thermal Management Through CFD”

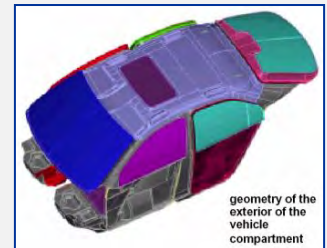
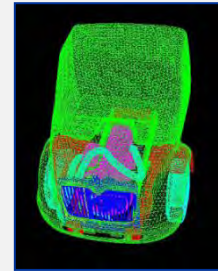
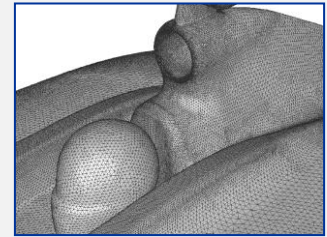
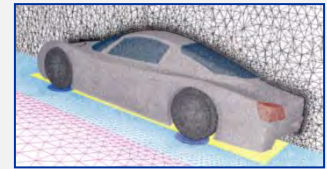
Timothy P. Nobel and Sunil K. Jain, International Truck and Engine Corporation

SAE 2002-01-1027

“Vehicle Ventilation System”

FORD-WERKE AG, Germany

FLUENT Application Brief Paper EX-170, Copyright © 2002 Fluent Inc.



2001

“A Numerical Simulation Strategy for Complex Automotive Cooling Systems”

G.Seider, F. Bet, T.Heid,Ulrich Hess, T. Klein and J. Sauer, BMW AG, Germany

SAE 2001-01-1722

“A Multi-Dimensional Approach to Truck Underhood Thermal Management”

Timothy P. Nobel and Sunil K. Jain, International Truck and Engine Corp.

SAE 2001-01-2785

“Numerical Study of Brake Disc Cooling Accounting for both Aerodynamic Drag Force and Cooling Efficiency”

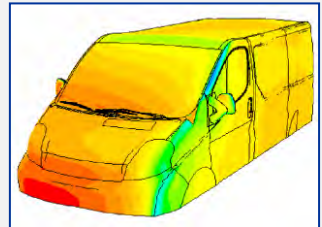
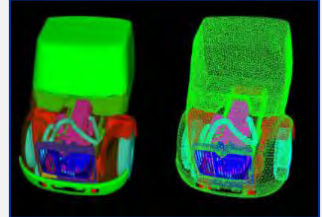
Anders Jerhamre and Christer Bergström, Volvo Car Corporation, Sweden

SAE 2001-01-0948

“Integration of Fluid Flow Modelling in the Vehicles Renault Development Process”

Williams Martin, Patrick Gilliéron, Renault S.A., France

SAE 2001-01-0700



2001

“Pressure-Sensitive Paint for Automotive Aerodynamics”

Jean-Luc Aider and Laurent Elena, PSA, France

Yves Le Sant, Florence Bouvier, Marie-Claire Merienne and Jean-Luc Peron,
ONERA, France

SAE 2001-01-0627

“Development of Underbody Aerodynamic Simulation Using Automatically Generated Tetrahedral and Prismatic Cells ”

Junya Ono, Yasushi Murakami and Kenji Okumura
Daihatsu Motor Co. Ltd. Japan

SAE 2001-01-0704

“Numerical Flow Simulations of a Detailed Car Underbody”

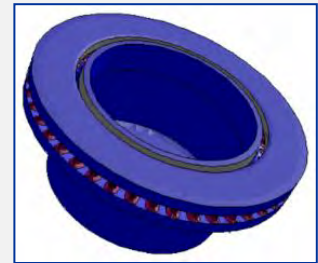
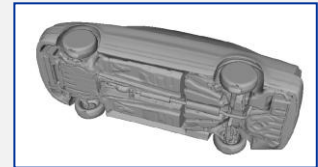
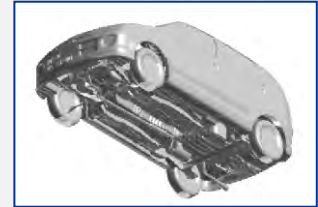
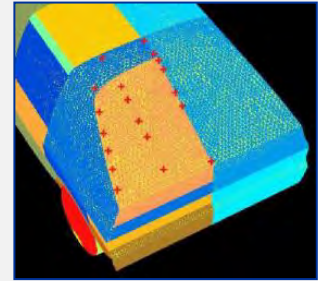
Simone Sebben, Volvo Car Corporation, Sweden

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“Thermal Analysis of Vented Brake Rotors”

General Motors Product Development Center, USA

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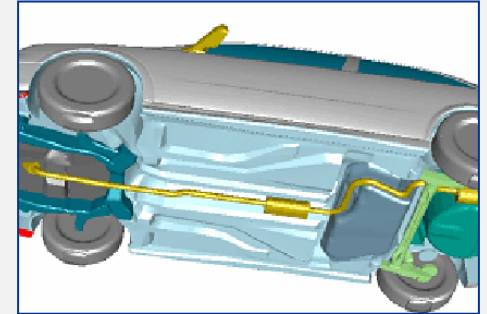


2001

“Simulation of Air Flow Around an OPEL ASTRA Vehicle with FLUENT”

Adam Opel AG, Germany

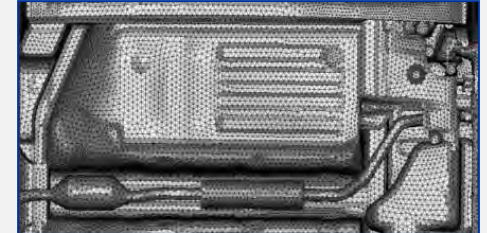
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“CFD in Aerodynamic Design Process of Road and Race Cars”

W. Seibert Fluent Deutschland GmbH

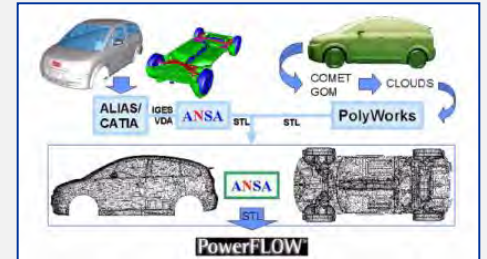
FLUENT Technical Notes TN155, Presented at European Automotive Congress, Bratislava, Slovakia, June 2001



“Comparison of different CFD tools based on a standardized post-processing”

B. Hupertz, H Fogt AUDI AG, Germany

Presented at European Automotive Congress, Bratislava, Slovakia, June 2001



1999-2000

“Simulation to Identify and Resolve Underhood/Underbody Vehicle Thermal Issues”

V. Damodaran, S. Kaushik
General Motors Truck Product Center, USA

Journal Article JA-118, Copyright © 2000 Fluent Inc.

“Comparison Between CFD and PIV Measurements in a Passenger Compartment”

Dag Aronson, Zenitha Chroner, Per Elofsson and Henrik Fellbom
Volvo Car Corporation, Sweden

SAE 2000-01-0977

“CFD Simulation by Automatically Generated Tetrahedral and Prismatic Cells for Engine Intake Duct and Coolant Flow in Three Days”

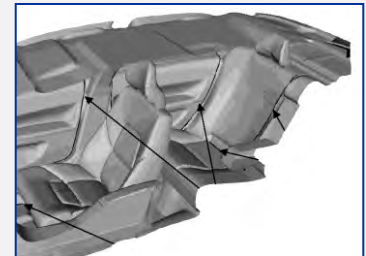
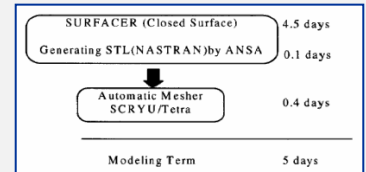
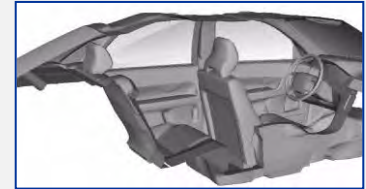
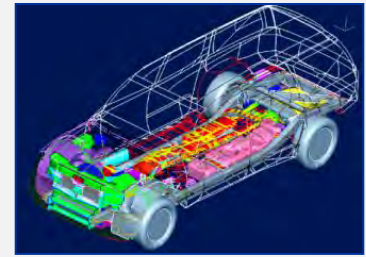
Kenji Okumura
Daihatsu Motor Co. Ltd. Japan

SAE 2000-01-0294

“Accuracy in Flow Simulations of Climate Control – Part 2: The Passenger Compartment”

Zenitha Chroner and Niklas Axelsson
Volvo Car Corporation, Sweden

SAE 1999-01-1201



1996-1999

“Parallel Workstation Clustering of FLUNET/UNS using LSF”

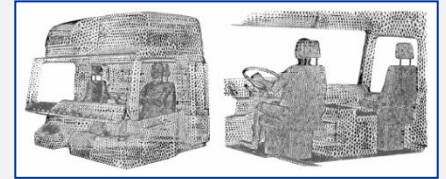
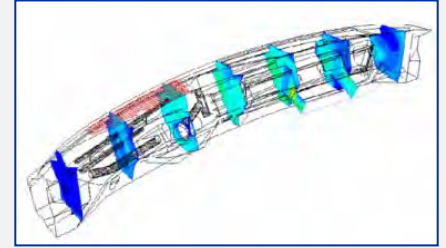
VISTEON Automotive Systems
FORD WERKE AG, Germany

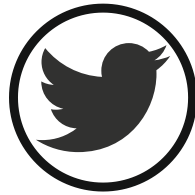
FLUENT Automotive Users Group Meeting 1999

“Unstructured Solvers for External and Internal Flow Simulations in Vehicle Engineering”

W. Seibert, R.K. Hanna Fluent Inc. - Darmstadt, Germany & Sheffield, UK

VDI-Gesellschaft Numerical Analysis and Simulation in Vehicle Engineering, Wurzburg 1996





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