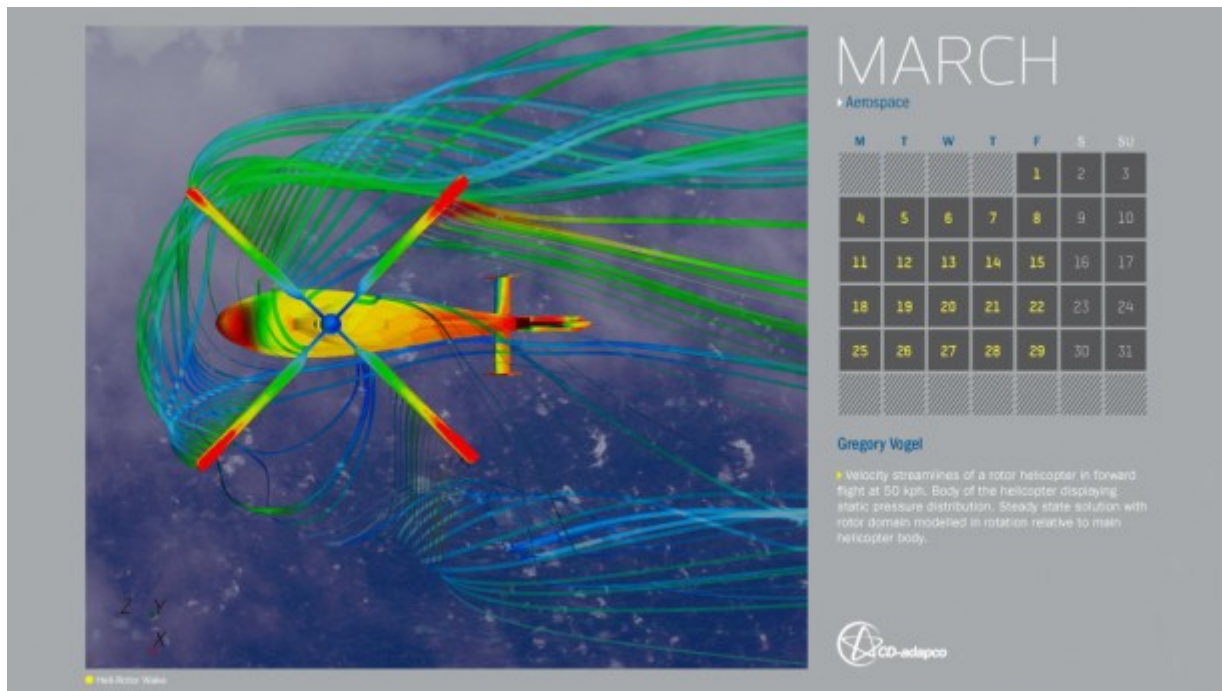




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## Request your 2013 Calendar



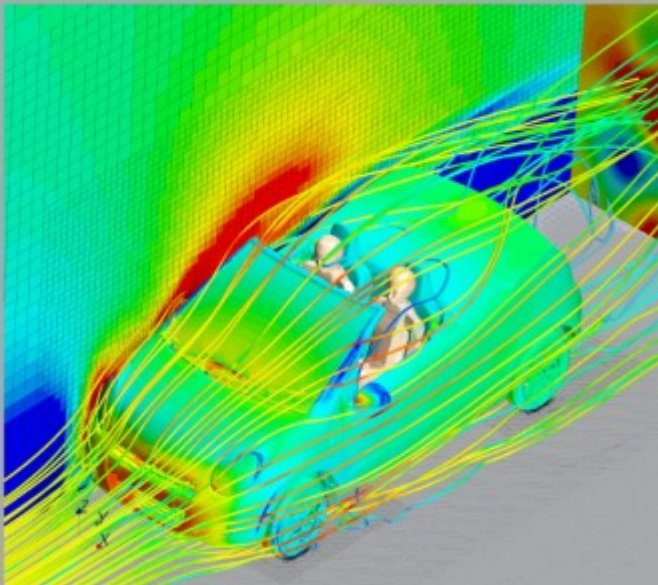
CD-adapco is pleased to announce Donald Riedeberger of University of Stuttgart as the winner of the 2013 CAE Post Processing Contest for his image a dolphin. Riedeberger submitted the image which shows off laminar-turbulent transition on a common dolphin at 1 m/s and 1 % turbulence intensity.

For the seventh year running, the competition has given users of CD-adapco software the chance to showcase their post-processing skills by producing striking images of their work. In winning the competition, and claiming a Samsung Galaxy S III and Nexus 7 as his prize, Riedeberger beat off tough competition from companies such as Volvo, CNH, Behr, Atkins, and Gruner.

CD-adapco's VP of Marketing, David Vaughn said, "Post processing CAE results are no longer just about getting numbers from a simulation, but also about being able to engage and inform colleagues from other disciplines about just how effective an analysis was. The quality of this year's entries has once again impressed everyone at CD-adapco and has shown just how skillful our users are in effectively deploying simulation across a huge range of different applications. With over 100 entries to choose from, all of an exceedingly high standard, voting proved to be a very close race and is a reflection of both the high levels of skill shown by our users and of the versatility of STAR-CCM+."

The best twelve images are showcased in the 2013 CD-adapco Desktop Calendar. [Register for your free calendar](#) [1], as only a limited number are available.

[REQUEST HERE](#) [2]



● Aerodynamic Simulations of Cabriolet Car

# JANUARY

● Automotive

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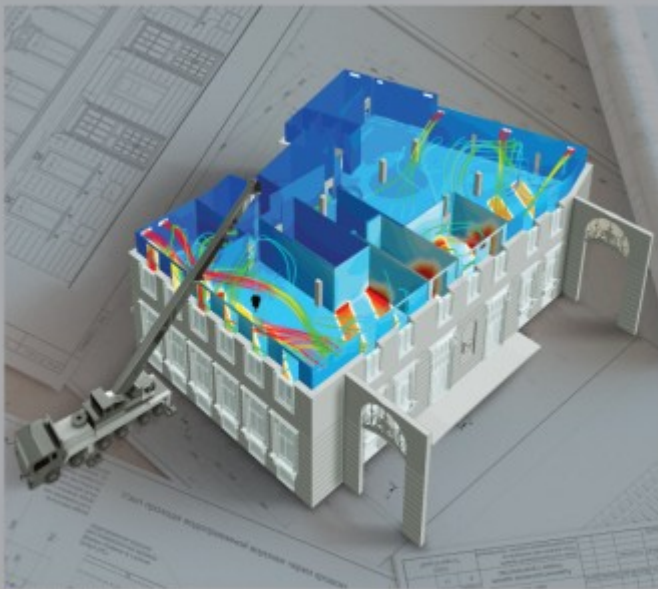
**Felix Rogin A**

Maruti Suzuki India Ltd

● Aerodynamic study is important for improving the fuel economy, driving stability and comfort characteristics. Designing a cabriolet car to meet drag and comfort imposes significant challenges for the automotive world. This can be achieved using optimized flow field.



[3]



● The Advantages of the Numerical Simulation

# FEBRUARY

● Building Services

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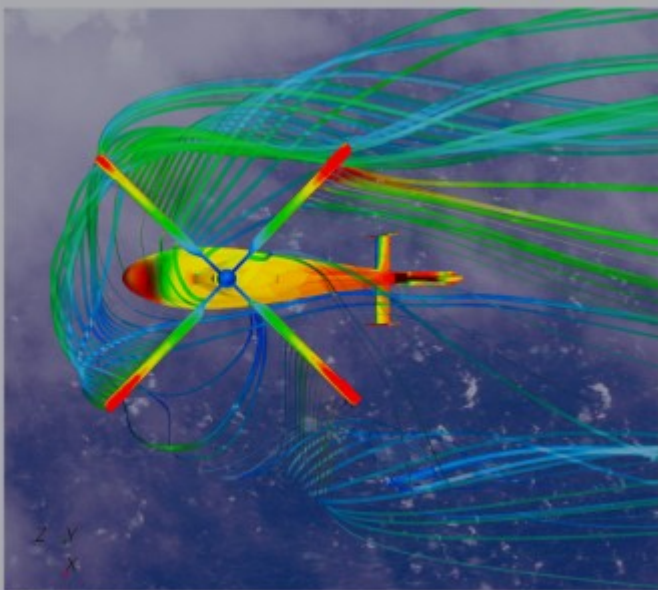
**Andrey Kolosnitsyn**

BUREAU OF TECHNICS, Russia

● Numerical simulation brings considerable value to the design of ventilation systems. It allows for accurate prediction of velocity and temperature variations, pressure and concentration distributions at any stage of design and construction.



[4]



● High-Rotor Noise

# MARCH

● Aerospace

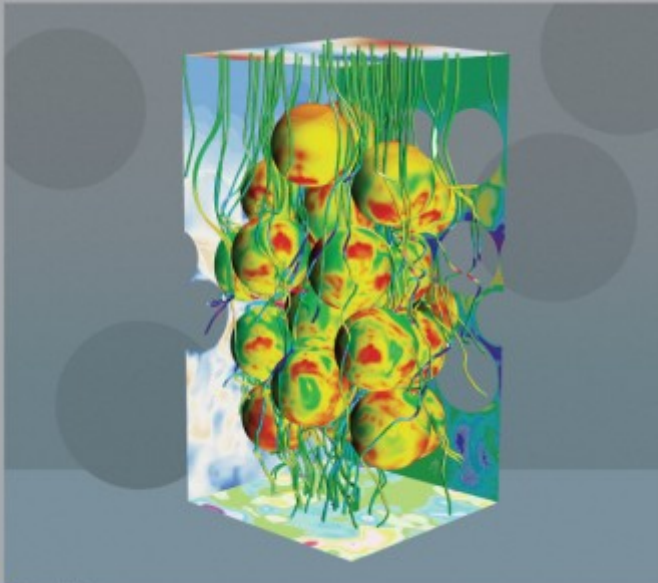
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**Gregory Vogel**

● Velocity streamlines of a rotor helicopter in forward flight at 50 mph. Body of the helicopter displaying static pressure distribution. Steady state solution with rotor domain modelled in rotation relative to main helicopter body.



[5]



Flow through randomly stacked nuclear pebbles

# APRIL

Energy

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29	30					

## Afrique Shams

Nuclear Research and Consultancy Group (NRG), The Netherlands

Flow through randomly stacked nuclear pebbles



ART Grand Prix Formula 1 on Track with CFD

# MAY

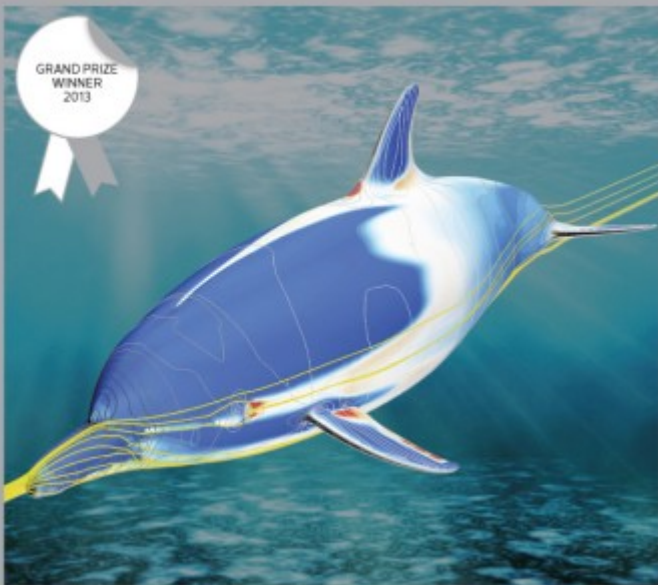
Autosport

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## Romain Penlher

Ardent, France

CD and STAR-CCM+ helped to understand the flow around the ART Grand Prix formula 3 and to improve its aerodynamics performances on the track.



Lamina-turbulent transition on a Common Dolphin

# JUNE

Marine

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## Donald Riedeberger

University of Stuttgart, Germany

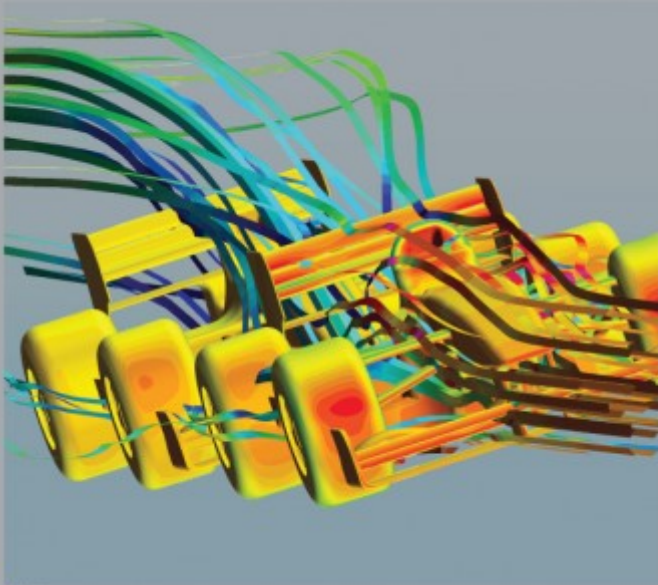
Lamina-turbulent transition on a common dolphin at 1 m/s and 1 % turbulence intensity. Transition location visualized by turbulence kinetic energy contours combined with isobars of pressure coefficient. Streamlines indicate part of oncoming flow forced towards the lower body. Model: v. Herten, 1966, University of Hannover, Germany



[6]

[7]

[8]



● F1 Wake

# JULY

Autosport

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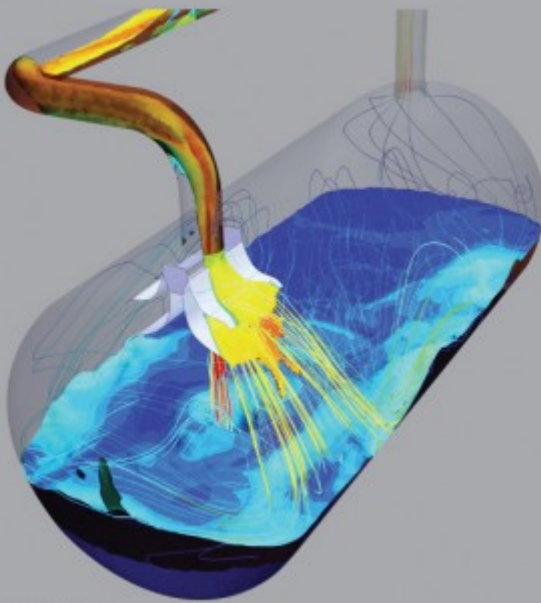
**Wayne Raggeaves**

Blackpool and the Fylde College, UK

Simulation showing the wake created by a Formula 1 car and the effect on the car that is following.



[9]



● Three-Phase Separator Inlet Evaluation

# AUGUST

Oil & Gas

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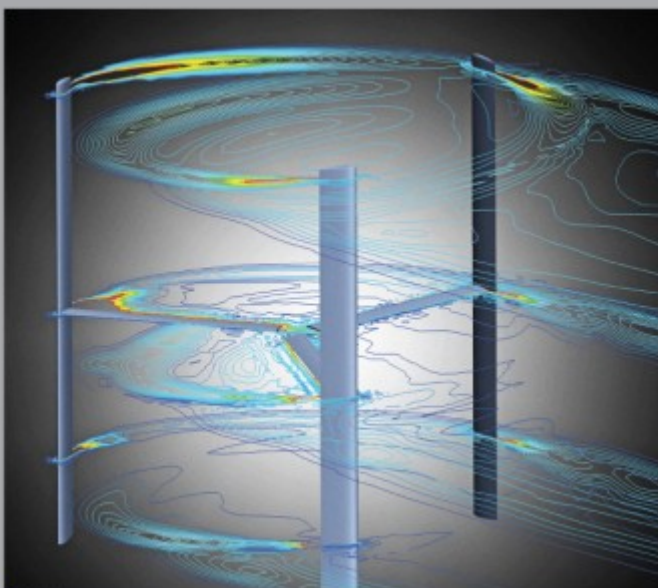
**David Fielding**

Prospect Flow Solutions, UK

Evaluation of an inlet device in a three-phase separator using both VOF and Lagrangian multiphase techniques.



[10]



● VAWT

# SEPTEMBER

Energy

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30						

**Domenico Cucco**

University of Naples "Federico II", Italy

Three vorticity planes placed at different heights (one can notice the greater vorticity near the tip of the blades) around this straight-blade vertical-axis wind turbine currently under analysis.



[11]



● Safety Studies for a Fixed Offshore Structure

# OCTOBER

● Oil & Gas

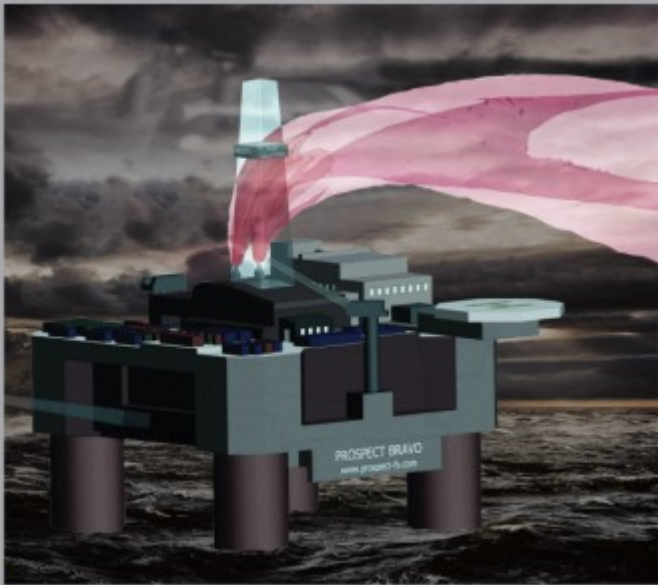
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**Christophe Mahit**  
KBRIS Ltd, UK

● CFD modeling is now routinely used to provide consequence modeling analysis of offshore safety related issues. These include ventilation assessment, gas leak dispersion, helideck environment modeling, smoke and fire modeling. These allow us to predict, quantify and potentially mitigate some of the risks associated with floating and fixed offshore structures.



[12]



● Smokey Prospect Bravo

# NOVEMBER

● Oil & Gas

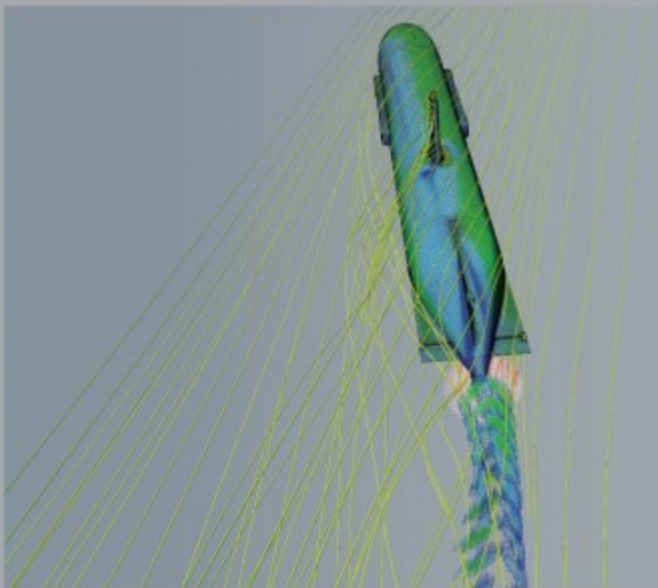
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**John Eddie**  
Prospect Flow Solutions, UK

● Gas dispersion case solved in STAR-CCM+, superimposed on a sea background.



[13]



● AUV at 15° "side-slip"

# DECEMBER

● Marine

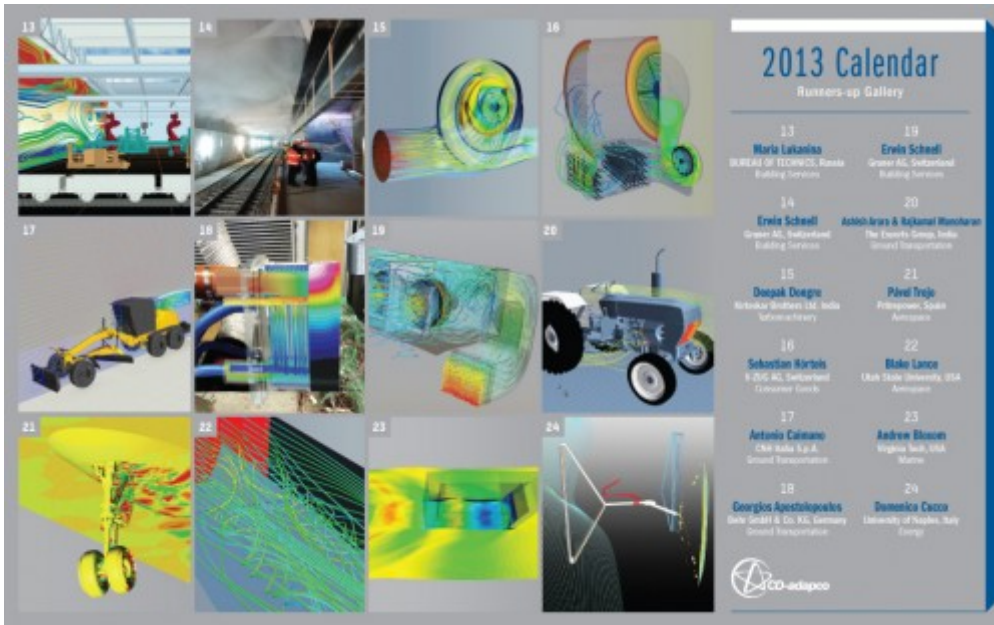
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**Ryan G. Coe**  
Virginia Tech, USA

● An Autonomous Underwater Vehicle (AUV) operating in 15° "side-slip" condition with an actuator-disk propeller.



[14]



[15]

## About CD-adapco

CD-adapco ([www.cd-adapco.com](http://www.cd-adapco.com) [16]) is the world's largest independent CFD focused CAE provider. Our core products are the technology-leading simulation packages, STAR-CCM+ and STAR-CD. The scope of our activities, however, extends well beyond CFD software development to encompass a wide range of CAE engineering services in fluid dynamics, heat transfer and structural engineering. Our ongoing mission is to "inspire innovation and reduce costs through the application of engineering simulation software and services."

A privately owned company, CD-adapco has maintained 17% organic year-on-year growth over the last 5 years. CD-adapco employs 700 talented individuals, working at 30 different offices across the globe.

## Press Contact

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[lauren.gautier@cd-adapco.com](mailto:lauren.gautier@cd-adapco.com) [17]  
 +1 248-277-4600

CD-adapco is the world's largest independent CFD focused provider of engineering simulation software, support and services. We have over 30 years of experience in delivering industrial strength engineering simulation.

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- [2] <http://www3.cd-adapco.com/registrations/index.html?c=70140000000O9Z9>
- [3] <http://www.cd-adapco.com/sites/default/files/styles/thumbnail/public/pr/gallery/01.jpg?itok=r82kmiHN>
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