



Technische
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silentdynamics

OBJECTIVES

The German OpenFOAM User meetiNg (GOFUN) is intended to advance the ideas and philosophy of OpenFOAM. It is an opportunity to discuss and exchange ideas between users from Germany and abroad.

REGISTRATION

With thanks to our sponsors the workshop is free of charge. Nevertheless, in order to allow a thorough organization, registration is mandatory before **11 February, 2018**.

To register, please visit the [gofun2018](https://www.tu-bs.de/wire) web-page under Research/Workshops on

<https://www.tu-bs.de/wire>

LOCAL ORGANISATION & CONTACT

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GOFUN 2018

2nd German OpenFoam User meetiNg

21/22 February 2018

Technische Universität
Braunschweig



CONFERENCE DAY **Wed 21 February 2018**

10:30 Registration HdW - Veolia/Weitblick

11:00 Opening Remarks

11:05 Session I 11:05 – 12:45

- Adaptive Mesh Refinement f. Aerodynamics
Thomas Schumacher (engys)
- Ext. aerodynamics with rotating wheels
Fabian Rösler (Audi)
- Efficient Heat Transfer simulation
Johann Turnow (silentdynamics)
- Two-Phase DNS Interface Methods
Holger Marschall (TU Darmstadt)

12:45 Lunch (Mensa, not incl.)

13:35 Session II 13:35 – 14:50

- Free surface flows with OpenFOAM
Christoph Preuss (Yacht Research Unit Kiel)
- OpenFOAM in wind energy
Matthias Schramm (IWES Fraunhofer)
- Gas dispersion in atmos. boundary layers
Henry Plischka (Uni Rostock)

14:50 Coffee Break

15:10 Session III 15:10 – 16:25

- Recent DES results
Charles Mockett (CFD Software E+F GmbH)
- Adjoint aeroacoustic optimization
Christos Kapellos (Volkswagen)

CONFERENCE DAY **Wed 22 February 2018**

- Surface tracking for inflator simulation
Tilo Laufer (Takata)

16:25 Coffee Break

16:40 Session IV 16:40 – 17:55

- Impinging Jet Flow w. different SST-models
Georg Klepp (HS Ostwestfalen-Lippe)
- Automization of simulation workflows
Hannes Kröger (silentdynamics)
- External solver coupling with preCICE
Gerasimos Chourdakis (TU München)

17:55 Closing

18:30 Social event (local pub, not incl.)

LOCATIONS



TUTORIAL DAY **Thu 22 February 2018**

9:30 Tutorials I (parallel) TU-Informatik-Zentrum

- Automation of OpenSource CAE Software
Hannes Kröger (silentdynamics) Room M161
- Particle simulation with OpenFOAM
Robert Kasper (Univ. of Rostock) Room M812
- Linear solvers & preconditioners
Thorsten Grahs (TU Braunschweig) Room M826

11:00 Coffee Break

11:30 Tutorials II (parallel) TU-Informatik-Zentrum

- Resistance & propulsion simulations
Hannes Kröger (silentdynamics) Room M161
- Adjoint theory & solver in OpenFOAM
Christos Kapellos (Volkswagen) Room M812
- Heat transfer in OpenFOAM
Johann Turnow (silentdynamics) Room M826

13:00 Closing

ROOMS

Wed 21 February, 2018 Haus der Wissenschaften

- Room Veolia/Weitblick, Pockelsstr, 11, 5th floor

Thu 22 February, 2018 TU Informatik-Zentrum

- M160/M161, Mühlenpfordtstr. 23, 1st floor
- M811/M826, Mühlenpfordtstr. 23, 8th floor