

INTRODUCTION

The ERCOFTAC (European Research Community on Flow, Turbulence and Combustion) Pilot Centers of South and North Germany are jointly organizing the 17th ERCOFTAC Technology Day on **Thursday, 3 December 2026**. During the event, members of both Pilot Centers will give presentations on key areas of their work. The topics range from fluid mechanics and turbulence research through to flows involving combustion, flow acoustics and the application of modern flow measurement techniques. The speakers are experts in their respective fields who have been publishing papers at an international level for many years. The objective of the event is to improve the exchange of information between members of the institutions and to inform interested parties from industry about technical and scientific developments and innovations in the field of fluid mechanics and thermodynamics. Ample opportunity will be provided for direct discussions following the presentations and during the breaks. The aim is thus to foster close links between research and industry.

In recent years, the event has always been very well received, attracting around 100 participants. For companies in particular, the event offers an opportunity to quickly find out about activities in the field of fluid mechanics, turbulence and combustion in Germany. **This year, we have placed a particular focus on the latest developments and applications of fluid mechanics in large-scale fluid simulations for industrial applications.**

European Research Community On
Flow, Turbulence And Combustion

ERCOFTAC

Technology Day

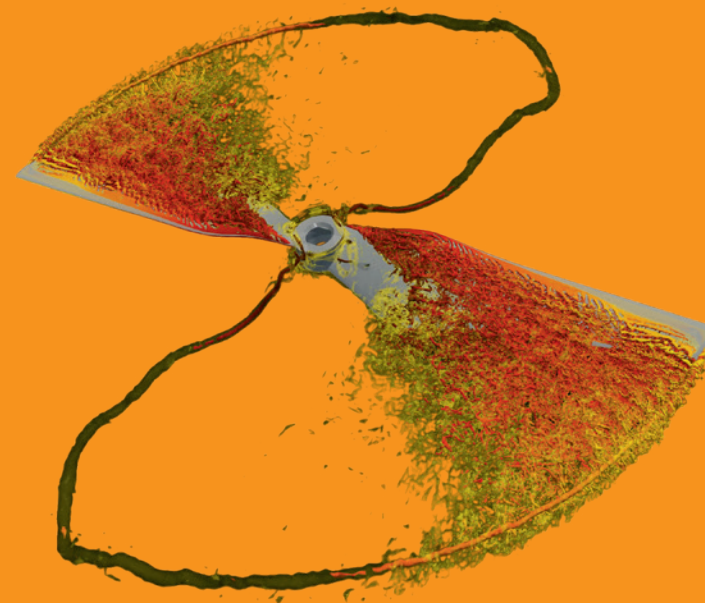
G E R M A N Y

03.12.2026 | Nuremberg

CONTACT PERSON

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Information on ERCOFTAC can be found at:
<http://www.ercoftac.org>



PROGRAMME

09:00 - 09:15
Welcome and Introduction
Stefan Becker (FAU Erlangen)
09:15 - 09:55
High-Fidelity Simulations of Complex Turbulent Flows
Philipp Schlatter (FAU Erlangen)
09:55 - 10:35
The Impact of GPUs on Industrial CFD Simulations
Florian Menter (ANSYS Deutschland)
10:35 - 10:55
COFFEE BREAK
10:55 - 11:35
Large Eddy Simulations in Industrial Applications
Michael Manhart (TU München)
11:35 - 12:15
High Resolution Analysis of Transonic Wing Flow
Wolfgang Schröder (RWTH Aachen)
12:15 - 13:15
LUNCH

13:15 - 13:55
Integrated Time-Frequency Simulations for Aeroacoustics Industrial Applications
Sylvian Lardeau (Siemens AG)
13:55 - 14:35
RANS-Based Subscale Modeling in Eddy-Resolving Simulations of Complex Flows
Suad Jakirlic (TU Darmstadt)
14:35 - 14:55
COFFEE BREAK
14:55 - 15:55
Large Scale Simulations – Different Examples
▪ Optimization of Curved Pipes for Energy-Efficient Fluid Transport ▪ Multiphase Modelling of Flow in Industrial Spray Drying ▪ Flow around a Bulk Carrier using the High-Order Spectral Element
Eman Bagheri, Suharto Saha, Manuel Münch (FAU Erlangen)
15:55 - 16:25
Analysis of Coherent Structure in Scale-Resolving Simulations of Commerical Aircraft
Andre Weiner (TU Dresden)
16:25 - 16:30
End of the Event
Stefan Becker (FAU Erlangen)

LOCATION

**Industrie- und Handelskammer
Nürnberg für Mittelfranken (IHK)**

Hauptmarkt 25/27
90403 Nürnberg

Should any last-minute changes arise due to the number of participants, these will be communicated to registered participants by email.

REGISTRATION

Registrations until **27 November 2026** should be sent by e-mail only to: Istm-sekretariat@fau.de
If there are several people, please list each person separately by name. Please state whether your institution is a member of ERCOFTAC.

Information required for email registration:

To:	Istm-sekretariat@fau.de
Subject:	ERCOFTAC Registration Name
Name:	<i>Surname, First name</i>
E-mail:	...
Membership:	<i>ERCOFTAC Member Yes/No</i>
Telephone:	...
Invoice Address:	...

REGISTRATION FEE

The registration fee is **150 euros (75 euros for ERCOFTAC members)**. This includes coffee breaks and refreshments. To help us plan for the number of attendees, participants and speakers are required to register by email by 27 November 2026. Any profits from the event will be donated to an initiative run by the Pilot Centre South Germany called 'Young ERCOFTAC'.