



ERCOFTAC

European Research Community On
Flow, Turbulence And Combustion

ERCOFTAC Iberian Pilot Centre

Meeting 2026

Monday, September 7, 2026

Universidad Carlos III de Madrid
Campus Madrid - Puerta de Toledo
Ronda de Toledo, Madrid, Spain

Room 1.A.01

uc3m | Universidad
Carlos III
de Madrid

CIMNE[®]



UJa | Universidad
de Jaén

About the Meeting

The ERCOFTAC Iberian Pilot Centre Meeting brings together leading research groups and industry partners in fluid mechanics, turbulence and combustion. The event provides a focused forum to showcase ongoing work and strengthen connections across the Iberian community.

Objectives

- Provide an overview of research activities across Iberian institutions
- Foster collaboration between academia and industry
- Promote participation in ERCOFTAC initiatives and activities
- Strengthen and expand the network

Programme

Schedule at a glance

09:45 – 10:00	Registration
10:00 – 10:20	Welcome & overview of PC Iberia activities
10:20 – 11:20	Technical Presentations (I)
11:20 – 11:50	Coffee break
11:50 – 13:10	Technical Presentations (II)
13:10 – 14:10	Lunch
14:10 – 15:30	Technical Presentations (III)
15:30 – 16:00	Round table discussion
16:00 – 16:30	Coffee break & networking (closing)
16:30 – 17:30	PC Steering committee meeting

Organizers

Stefano Discetti (UC3M)	stefano.discetti@uc3m.es
Juan M. Gimenez (CIMNE)	jmgimenez@cimne.upc.edu
Daniel Rodríguez (UPM)	daniel.rodriguez@upm.es

Technical Sessions

Technical Presentations (I)

Time	Inst.	Speaker	Title
10:00 – 10:20	PC Iberia	Organizers	Welcome & overview of PC Iberia
10:20 – 10:40	UC3M	Stefano Discetti	Recent advances in flow measurement, characterization and control at UC3M
10:40 – 11:00	UPM	Daniel Rodríguez / Gonzalo Rubio	Lines of research in Aerodynamics, Aeroacoustics, CFD and modelling at ETSIAE-UPM
11:00 – 11:20	CIMNE	Juan M. Gimenez	Multiscale simulation of turbulent and particulate flows. Towards quantum computing acceleration

Technical Presentations (II)

Time	Inst.	Speaker	Title
11:50 – 12:10	UPC	Ivette Rodriguez	Advances in Flow, Turbulence, and Combustion research at UPC: Focus on how simulations and AI are redesigning urban microclimates
12:10 – 12:30	UJAEN	Javier Ruiz Rus / Carlos García Baena	FSI and Wake Dynamics: From Bluff Rigid Bodies to Deformable Interfaces
12:30 – 12:50	BSC	Oriol Lehmkuhl	TOWARDS High-Order Spectral Element Methods for Robust Compressible-Flow Simulations on GPUs
12:50 – 13:10	UDC	Xesús Nogueira / Félix Nieto	Experiences in computational fluid mechanics applications from the University of A Coruña

Technical Presentations (III)

Time	Inst.	Speaker	Title
14:10 – 14:30	UGR	Manuel Lorite Díez	Adaptive solutions for bluff body wakes
14:30 – 14:50	UPV	Sergio Hoyas Calvo / Roberto Navarro	Explaining turbulence with Explainable Artificial Intelligence / Experimental testing and numerical modeling of propellers and aircraft for innovative air mobility
14:50 – 15:10	URJC	Jorge Saavedra	Shaping Flows: Active Aerodynamics, Advanced Simulation and Experimental Aerothermal Research
15:10 – 15:30	INTA	Carlos Sanmiguel	Estimation, modeling, and control of complex flows using data-driven techniques

Acknowledgments

This event is funded by ERCOFTAC Association through PC GENERAL FUNDING.