

ERCOFTAC Spring Festival 2024 hosted by Pilot Centre Iberia

Wednesday, 15th May 2024

**Venue: Laboratories of the Department of Aerospace Engineering of Universidad Carlos III de Madrid
Leganés, calle Sabatini 15**

16:30 – 18:30 Visit to the laboratories of the Department of Aerospace Engineering of Universidad Carlos III de Madrid

Day 1: Thursday, 16th May 2024

**Venue: Universidad Carlos III de Madrid - Campus Puerta de Toledo
Ronda de Toledo, 1, 28005 Madrid**

PC Iberia Presentations

8:40	Welcome address			
9:00	Keynote	Esteban Ferrer	Universidad Politecnica de Madrid	New avenues in computational fluid dynamics
9:40		Pilar Gonzalez-Nieto	Universidad Complutense de Madrid	Local spreading rate estimation in forced plumes.
10:00		Matias Avila	Barcelona Supercomputing Center	Latest turbulence modelling activities in the Large-Scale Computational Fluid Dynamics group at BSC
10:20		Miguel Perez Encinar	Universidad Carlos III de Madrid	Predictability of wall-bounded flows by massive ensemble forecasting
10:40	Coffee Break			
11:10	Keynote	Ivette Rodriguez	Universidad Politecnica de Cataluña	Towards high-fidelity simulations of industry-relevant applications
11:50		Jordi Pallarès Curto	Universitat Rovira i Virgili	Short and long term dispersion of airborne pathogen-laden aerosols expelled in a violent expiratory event
12:10		Eduardo Soudah	International Center for Numerical Methods in Engineering (CIMNE)	Computational Modeling for Assessment and Treatment of Aortic Dissections
12:30		Xandra Margot	CMT-Clean Mobility & Thermofluids, Universitat Politècnica de Valencia	Numerical research on conjugate heat transfer for batteries at CMT
12:50	Lunch			
13:50	Keynote	Marco Raiola	Universidad Carlos III de Madrid	Data-driven modelling of turbulent flows
14:30		Manuel Lorite Díez	Universidad de Granada/IISTA	Self-adaptive torsional and bending flaps for drag reduction in the squareback Ahmed body wake
14:50		José Carlos Muñoz Hervás	Universidad de Jaén / IISTA	Experimental analysis of the interaction of rear flexible flaps with the wake dynamics behind a squareback Ahmed body
15:10		José Manuel Camacho Sánchez	Universidad de Jaén / IISTA	Effect of base blowing configuration on the drag reduction of a 3d blunt body

15:30 Coffee Break			
16:00	Stefano Discetti	Universidad Carlos III de Madrid	Recent advances in flow diagnostics and control at the EAP Lab
16:20	Jesus Garicano-Mena	Universidad Politecnica de Madrid	Acceleration of data-driven modal decomposition using unsupervised machine learning techniques
16:40	Marco Antonio Zuñiga Perez	International Center for Numerical Methods in Engineering (CIMNE)	Reduced order models for transonic potential flows
17:00	Federico Ramirez	CMT-Clean Mobility & Thermofluids, Universitat Politècnica de Valencia	Numerical research on UAV aeroacoustics at CMT
17:20	Closing Remarks		
17:30	Closure		

20:00 – 20:30 Dinner

Day 2: Friday, 17th May 2024

Venue: Universidad Carlos III de Madrid - Campus Puerta de Toledo
Ronda de Toledo, 1, 28005 Madrid

ERCOFTAC administrative program only!

09:00 - 12:30 Joint SPC and KNC meeting

12:30 Lunch

14:00 - 16:00 Executive Committee meeting

16:30 End of Spring Festival 2024