

GAMM2025

Tuesday 8 April 2025

S10: Turbulence and reactive flows: S10.01 - Room 1.23 (08:30 - 10:30)

-Conveners: Marta Waclawczyk

time	[id] title	presenter
08:30	[252] Progress in high-moment turbulent scaling laws of wall-bounded shear flows	OBERLACK, Martin
09:10	[253] Momentum Transfer of Riblets in the Drag Increasing Regime	RAPP, Natalie
09:30	[254] Unsteady turbulent energy dissipation in an axisymmetric turbulent wake	OBLIGADO, Martin
09:50	[255] Inverse energy cascade within atmospheric convective structures	JĘDREJKO, Paweł
10:10	[256] Heat transfer in thermally developing, inhomogeneously heated turbulent pipe flows	BÜRK, Leo

S10: Turbulence and reactive flows: S10.02 - Room 1.23 (16:30 - 18:30)

-Conveners: Ewa Tuluszka-Sznitko

time	[id] title	presenter
16:30	[257] Error decomposition of large-eddy simulation applied to turbulent combustion	GEURTS, Bernard
17:10	[258] Application of Extended Large-Eddy Simulation (XLES) to turbulent channel flow	MARINKOVIĆ, Pavle
17:30	[259] Investigating the Impact of Forcing Mechanisms on Passive Scalar Mixing Using Stochastic One-Dimensional Turbulence	JOSHI, Abhishek
17:50	[260] Formulation of an improved wall model for turbulent concentric coaxial pipe flows	YAP, Li Toong
18:10	[261] Reconstruction of inhomogeneous turbulence based on stochastic Fourier-type integrals	LINDNER, Felix

Wednesday 9 April 2025

S10: Turbulence and reactive flows: S10.03 - Room 1.23 (08:30 - 10:10)

-Conveners: Marta Wacławczyk

time	[id] title	presenter
08:30	[262] LES/PDF Simulations of Turbulent Reacting Flows	MURADOGLU, Metin
09:10	[263] CFD Based Kinetic Parameter Estimation Method for Arbitrary Reactor Geometries	QURESHI, Muhammad Uzair
09:30	[264] Development of detailed surface reaction mechanism for methanation process based on experiments	RAKHI
09:50	[265] Kinetic investigation of methanation over Ni-CeO ₂ using a one-dimensional model	IBRAYEVA, D.

S10: Turbulence and reactive flows: S10.04 - Room 1.23 (16:30 - 18:30)

-Conveners: Ewa Tulińska-Sznitko

time	[id] title	presenter
16:30	[266] Influence of porous material on the flow behind a backward-facing step: experimental study	KLOTZ, Lukasz
17:10	[267] Gas transfer through sea surface - turbulence and surfactant	PISKOZUB, Jacek
17:30	[268] Analysis and parametrization of turbulence in stably-stratified atmospheric boundary layers	WACŁAWCZYK, Marta
17:50	[269] Turbulence statistics in thunderclouds	SARKAR, Joydeep
18:10	[270] Modelling transient, compressible and subcritical vessel outflows	FISCHER, Michael-David

Thursday 10 April 2025

S10: Turbulence and reactive flows: S10.05 - Room 1.23 (08:30 - 10:30)

-Conveners: Rafał Ślefarski

time	[id] title	presenter
08:30	[271] The Influence of Hydrocarbon Additives on Laminar Burning Velocity and NOx Emissions in Hydrogen Combustion	HEMAIZIA, Abdelkader
08:50	[272] Towards the use of HiPS as scalar mixing model in a full engine cycle simulation	STARICK, Tommy
09:10	[273] Effect of swirl flame shaping on emissions in CH ₄ -NH ₃ co-firing - experimental and numerical study	ŚLEFARSKI, Rafał
09:30	[758] The Evolution of André Lévéque's Thermal Boundary-Layer Solution	MCMAHON, Niall