



Lille Turbulence Program 2021

June 28 – July 23

LMFL, M6 building, Villeneuve d'Ascq

WEEK 1

Monday 28/06 - 3pm

SPEAKER: Jean-Philippe Laval

TITLE : LMFL databases and results on wall turbulence with and without pressure gradients.

Tuesday 29/06 - 11am

SPEAKER: Jim Brasseur

TITLE: Dynamically-dominant Advective and Chemical Interactions between Subfilter and Resolved Scale Fluctuations in Flame-Turbulence Interactions.

Tuesday 29/06 - 3pm

SPEAKER: Stefano Berti

TITLE: Lagrangian dispersion in upper-ocean turbulent models including mixed-layer instabilities.

Wednesday 30/06 - 3pm

SPEAKER: Jim Brasseur

TITLE: Nonequilibrium Responses of Daytime Atmospheric Boundary Layer Turbulence to Nonstationary Forcing at the Mesoscale.

Thursday 01/07 - 3pm

SPEAKER: Martin Obligado

TITLE: Using the zero-crossings of velocity fluctuations to characterise single and two-phase turbulent flows.

Friday 02/07 3pm

SPEAKER: John Farnsworth

TITLE: Interaction of coherent vortex motions produced by a synthetic jet within a turbulent boundary layer.

WEEK 2

Monday 05/07 - 3pm

SPEAKER: Kostas Steiros

TITLE: Revision of the equilibrium hypothesis in the K41 framework.

Tuesday 06/07 - 2pm

SPEAKER: Rakesh Yuvaraj

TITLE: Analysis of energy cascade in wall-bounded turbulent flows.

Wednesday 07/07 - 3pm

SPEAKER: Marcello Meldi

TITLE: Sequential Data Assimilation methods for the analysis of unsteady/turbulent flows.

Thursday 08/07 - 3pm

SPEAKER: Jiangang Chen

TITLE: Turbulence dissipation inhomogeneity scaling in the wake of two side-by-side square prisms.

Friday 09/07 - 3pm

SPEAKER: Christos Vassilicos

TITLE: Scalings of scale-by-scale turbulence energy in non-homogeneous turbulence.

WEEK 3

Monday 12/07 - 4pm

SPEAKER: Joran Rolland

TITLE: Genetic methods and data based methods for the study of multistability in turbulence.

Tuesday 13/07 - 4pm

SPEAKER: Ingrid Neunaber

TITLE: Bringing turbulence investigation methods to experimental wind energy research: two examples.

Thursday 15/07 - 4pm

SPEAKER: Bayo Cal

TITLE: Quantification of wake shape modulation and deflection for tilt and yaw misaligned wind turbines.

Friday 16/07 - 4pm

SPEAKER: Michael Hoelling

TITLE: Mimicking fractal grid turbulence by other passive grids with similar distribution of blockage.

WEEK 4

Monday 19/07 - 4pm

SPEAKERS: Joachim Peinke

TITLE: K62 and beyond

Monday 19/07 - 5pm

SPEAKERS: Andre Fuchs

TITLE: Multipoint analysis of turbulence.

Tuesday 20/07 - 4pm

SPEAKER: Pedro Costa

TITLE: Turbulent Channel flow with small inertial particles insights from first principles simulations.

Wednesday 21/07 - 4pm

SPEAKER: Gioacchino Cafiero

TITLE: Wall bounded flows manipulation using sinusoidal roughness.

Thursday 22/07 - 4pm

SPEAKER: Adrian Lozano Duran

TITLE: Statistically-unsteady turbulent boundary layers with mean flow three-dimensionality.