

Aerodynamics and Flight Mechanics Research Group

- 02 October 2013 Professor Hugh Blackburn (Monash, Australia) "Computing optimal flow perturbations"
- 09 October 2013 Dr Oriol Lemkuhl (University of Catalonia) "Turbulent flow over bluff bodies: from critical to supercritical flow regimes"
- 16 October 2013 Dr Miguel Fosas (LadHyX) "A global stability analysis of tonal noise around aerofoils"
- 23 October 2013 Dr Andrea Da Ronch (AFM) "Computational Fluid Dynamics-based reduced models for aircraft loads calculation"
- 30 October 2013 Dr Fehmi Cirak (Cambridge University) "FSI insect flight"
- 6 November 2013 Dr Gabriel Weymouth (Fluid Structure Interaction group) "Biologically inspired marine designs: seal whisker sensors, octopus rockets, and dolphin tail energy extractors"
- 13 November 2013 Dr Ricardo Garcia-Mayoral (Cambridge University) "Drag reduction by surface texturing: riblets and superhydrophobic surfaces"
- 20 November 2013 Dr Nalleli Gongora-Orozco (AFM) "Unsteady pressure sensitive paint measurements of a moving shock-wave"
- 27 November 2013 Dr Matthew Juniper (Cambridge University) "Nonlinear thermoacoustics"
- 4 December 2013 AFM PGR presentations:
Andrea Sansica "Stability and unsteadiness in a laminar shock-induced separation bubble"
Richard Pichler "Assessment of turbulence modelling assumptions using data from Low Pressure Turbine DNS"
- 11 December 2013 Dr Peter Vincent (Imperial College) "Next generation CFD: high-order accurate simulations using many-core platforms"
- 8 January 2014 Dr Trevor Birch (DSTL) "Some aerodynamic challenges of unmanned air vehicles"

All talks begin at 16.15 in 3021, Tizard building. Tea, coffee and biscuits are available from 16.00 in the Lilley Room (5019, Tizard).

Questions/comments can be directed to Richard Sandberg, 5007 Tizard,
sandberg@soton.ac.uk (tel: +44(0)23 8059 7386, internal: 27386).

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- 29 January 2014 Professor Christos Vassilicos (Imperial College London) "Dissipation in Turbulent Flows"
- 5 February 2014 Dr Takafumi Nishino (University of Oxford) "Multi-scale flow physics and modelling of marine turbine arrays"
- 12 February 2014 Dr Davide Lasagna (AFM) "Flow physics and control of the flow in a trapped vortex cell"
- 19 February 2014 Dr Matthew Juniper (Cambridge University) "Nonlinear thermoacoustics"
- 26 February 2014 Professor Alfredo Pinelli (City University London) "Biomimetics techniques for flow control"
- 5 March 2014 Dr Sotos Generalis (Aston University) "Towards understanding the structure of turbulence"
- 12 March 2014 Dr Kamesh Anupindi (AFM) "A novel multiblock immersed boundary method enabling high order large eddy simulation of pathological and medical device hemodynamics"
- 19 March 2014 Professor Peter Schmid (Imperial College London) "Nonlinear model reduction and control of oscillator flows"
- 26 March 2014 Dr Pierre Ricco (University of Sheffield) "Turbulent drag reduction through rotating discs"
- 30 April 2014 AFM PGR Presentations:
Jeroen van den Eynde "Numerical simulation of roughness-induced instability growth and transition at Mach 6"
Patrick Bechlars "Effects of a wall on the dynamics of turbulence"
- 7 May 2014 Dr Phil Hancock (University of Surrey) "Wind tunnel simulations of stable and unstable wind flows and the effects on wind turbine loads and wakes"
- 14 May 2014 Professor Rich Kerswell (Bristol University) "Extracting coherent structures from turbulent flows"

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