

## 9am Opening

09:15 **Welcome**

## Oral Session 1;

Chair: Tom O'Donoghue

- 09:15 **Mohammed Afsar**, University of Strathclyde  
Sarah Stirrat and Lydia McLeod  
*Structure of turbulence prior to rapid-distortion*
- 09:30 **Megan Knight**, University of Strathclyde  
Mohammed Afsar, Rohella Muhel and Ioannis Kokkinakis  
*Turbulence kinetic energy for an axisymmetric steam jet*
- 09:45 **Sarah Stirrat**, University of Strathclyde  
M.Z Afsar and I.W Kokkinakis  
*Investigation of parallel computing for jet-surface interaction noise calculations*
- 10:00 **George Greenlee**, University of Strathclyde  
Mohammed Afsar and Rohella Muhel  
*Investigating incipient separation for an aerofoil at an arbitrary orientation subjectd to on oncoming gust*
- 10:15 **Katherine Meaden**, University of Strathclyde  
Mohammed Afsar, Rohella Muhel and Ioannis Kokkinakis  
*The Coanda Effect anomaly present in 2D CFD simulations of installed rectangular jets*

10:30 Break and breakout sessions for further discussions

## Oral Session 2;

Chair: Peter Szabo

- 11:00 **Ivan Zadrazil**, Dantec Dynamics Ltd.  
*Seeding Particles in Experimental Fluid Dynamics*
- 11:15 **Oleksandr Zhdanov**, University of Glasgow  
Richard Green and Angela Busse  
*Aerodynamic properties of a succulent inspired cylinder*
- 11:30 **Abel Arredondo Galeana**, University of Edinburgh  
Anna Young and Ignazio Maria Viola  
*Passively morphing blades for load alleviation of tidal turbines*
- 11:45 **Ryan Kyle**, Heriot-Watt University  
and Wolf-Gerrit Früh  
*Braking and propeller state for floating offshore wind turbines*
- 12:00 **Hugh J A Bird**, University of Glasgow  
and Kiran Ramesh  
*Modelling leading edge vortices on finite wings with low order methods*

## 12:20 Poster Session

- 12:20 **Ahmed Abuhatira**, University of Dundee  
Salim. M. Salim, Hussein. A. Hussein and Jan. B. Vorstius  
*Effects of Curvature Radius Ratio of 90-Degree Pipe Elbow on FIV Signal*
- 12:20 **Geroge Hyde-Linaker**, University of Strathclyde  
Richard Black and Asimina Kazakidi  
*Multi-scale model of the fluid-structure interaction during flow mediated dilation for assessing vasodilation*
- 12:20 **Ahmed El-hady**, University of West of Scotland  
David Hutson, Des Gibson, Katherine Kirk and Richard Fu  
*Thin film Induced Surface Acoustic Wave actuated Microfluidics for Lab-on-chip applications*
- 12:20 **Daniel Johnston**, University of Strathclyde  
Mohammed Afsar, Adrian Sescuc and Ioannis Kokkinakis  
*Investigating the effectiveness of Padé-type approximations*
- 12:20 **Jonathan Wilkin**, University of Dundee  
Alan Cuthbertson, James Wilkes, Sue Dawson, Dorrik Stow, Karl Stephen, Uisdean Nicholson and Nadia Penna  
*Experimental modelling of the flow processes and deposits produced by turbidity currents in base-of-slope settings*
- 12:20 **Simon Kelly**, University of Strathclyde  
Mohammed Afsar, Rohella Muhel and Ioannis Kokkinakis  
*How a jet flow interacting with a streamwise/spanwise corrugated surface causes an increase in turbulence kinetic energy*
- 12:20 **Kevin Singh**, University of Strathclyde  
K. Ritos, I. Kokkinakis and M. Frank  
*Comparison of Induced Drag Prediction Methods on Unstructured Grids*

12:45 Break and breakout sessions for further discussions

## Oral Session 3;

Chair: Konstantinos Ritos

- 13:30 **Maria Boumpouli**, University of Strathclyde  
Emilie Sauvage, Claudio Capelli, Silvia Schievano, Terence Gourlay and Asimina Kazakidi  
*A methodology to investigate the blood flow in patient-specific models of tetralogy of Fallot*
- 13:45 **Josh Williams**, Heriot-Watt University  
J. Kolehmainen, S. Cunningham, A. Ozel and U. Wolfram  
*Image-based inhaler deposition analysis during respiratory exacerbation*

- 14:00     **Scott Black**, University of Strathclyde  
K. Ritos, C. Maclean, R. Brodie and A. Kazakidi  
*Effect of Windkessel Boundary Conditions on 3D Blood Flow Simulations in the Aortic Arch*
- 14:15     **Mamdud Hossain**, Robert Gordon University  
Nkemjika Mirian Asiegbu, Mohamad Ghazi Droubi and Sheikh Zahidul Islam  
*Slug and Churn Flow Induced Forces on Piping in Vertical Upward Flow – A CFD Study*
- 14:30     **Robin Kamenicky**, University of Strathclyde  
M. Frank, D. Drikakis and K. Ritos  
*Wall Boiling Theory and Practice for Immersion Quenching*
- 14:45     **Tom Eaves**, University of Dundee  
*Dewatering of fibrous porous media*

15:00 Break and breakout sessions for further discussions

Oral Session 4;

Chair: Stephen Wilson

- 15:30     **David Rees Jones**, University of St Andrews  
and Andrew Wells  
*Subglacial plumes: dynamics, supercooling and frazil-ice formation*
- 15:45     **G Saranraj**, University of Dundee  
and Anirban Guha  
*Energy transfer in resonant and near-resonant internal wave triads in a bounded domain with varying topography*
- 16:00     **Magnus MacKay**, University of Strathclyde  
Mohammed Afsar and Ioannis Kokkinakis  
*An LES investigation of the 2D Tollmien-Schlichting wave instability in channel flow*
- 16:15     **Anirban Guha**, University of Dundee  
and Akanksha Gupta  
*Particle trapping via wave-topography interactions*
- 16:30     **Lise Ceresiat**, Heriot-Watt University  
J. Kolehmainen and A. Ozel  
*Eulerian-Eulerian modelling of gas-solid suspensions with bidisperse charged particles*
- 16:45     Closing

5 pm Meeting Ends