

PostGraduate Research Conference 2009
Thursday 11th June, George Begg Building

08:45 Author registration (GB Entrance)

	George Begg C1	George Begg C2	George Begg C3
Judged by:	FLOW PHYSICS & COMBUSTION	CIVIL & ENERGY	MANUFACTURING & MANAGEMENT
Organiser:	Prof H. Iacovides	Prof G. Levermore & Prof B. Marsden	Prof D. Hayhurst
	Dr A. Revell	Dr T. Stallard	Dr P. Mativenga
09:30	SESSION 1		
09:30	p1	<i>Methane diffusion flame dynamics at elevated pressure:</i> H. Darabkhani	<i>Future homes on the future grid:</i> P. James
09:55	p2	<i>Fuel Mixing Effect on the Flicker of Jet Diffusion Flames:</i> J. Li	<i>Spatial discretization errors due to central differencing on finite-volume non-uniform grids:</i> F. Butt
10:20	p3	<i>A pneumatic spoiler concept for the aircraft lateral control:</i> C. Harley	<i>Experimental Measurements of Irregular Wave Interaction Factors in Closely Spaced Arrays:</i> S. Weller
			<i>Laser generation of nano-bumps below 2 nm height on crystalline Si for debris-free marking/patterning:</i> A. Pena Alvarez
			<i>Structural Design Change Support Tool Methodology:</i> H. Hindmarch
			<i>An Investigation of Key Project Management Practices in Traditional and TotalCare® Programmes: A Comparative Study:</i> A. Khan

10:45 COFFEE BREAK (GB/B7)

	SESSION 2		
11:15	p4	<i>Parametric study on the aerodynamics of flying disc geometries:</i> N. Kamaruddin	<i>Wave loading on offshore wave energy devices using Smoothed Particle Hydrodynamic (SPH):</i> P. Omidvar
11:40	p5	<i>A numerical investigation of the interaction of an array of synthetic jets with a separated boundary layer:</i> J. Zhou	<i>The use of wear maps to characterise tool-workpiece interactions:</i> S. Jaffery
12:05	p6	<i>Simulation and Modelling of Damage Mechanisms in Nuclear Graphite:</i> L. Luyken	<i>Instant generation of metal-oxide nanoparticles by continuous-wave laser ablation in liquid:</i> S. Khan
		<i>The effects of blockage on the propagation of acoustic waves in the liquid-shell coupled system:</i> W. Duan	<i>Numerical Modelling of Arrays of Wave Energy Devices:</i> S. Thomas
			<i>Modelling Transverse Matrix Cracking in Composite Structure:</i> F. Almaskari

12:30 LUNCH (GB/B7)

	EXTREME LOADING & DYNAMICS	COMPUTATIONAL FLUID DYNAMICS	STRUCTURES & BUILDINGS
Judged by:	Dr Q. Li	Prof B. Launder	Dr Y. Wang
Organiser:	Dr P. Mativenga	Dr A. Revell	Dr T. Stallard
13:30	SESSION 3		
13:30	p7	<i>Failure analysis of composites and lap joints of composites:</i> R. Choudhry	<i>Numerical simulation of physiological flows:</i> M. Yates
13:55	p8	<i>Temperature assessment of intumescent coated steel frame connection under elevated temperature.:</i> R. Krishnamoorthy	<i>A Numerical Method for Extracting Temperature-Dependent Thermal Conductivity of Gypsum Boards:</i> I. Rahmanian
14:20	p9	<i>Modeling and Control of Magnetorheological Damper:</i> H. Metered	<i>Numerical study of liquid mixing enhanced by lateral synthetic jet pairs:</i> Q. Xia
		<i>Measured Responses by MEMS Accelerometer:</i> A. Badri	<i>Improvements in a two time scale linear eddy viscosity model:</i> T. Klein
			<i>Moment – Rotation Behaviour of Reverse Channel Connections to Tubular Columns:</i> X. Li

14:45 COFFEE BREAK (GB/B7)

	SESSION 4		
15:15	p10	<i>Indentation into Polymeric Foams:</i> E. Flores Johnson	<i>The Overset Grid Method Applied to the Simulation of the Incompressible Navier-Stokes Equations:</i> A Skillen
15:40	p11	<i>The Experimental Study of Natural Convection Flows in Inclined Cavities:</i> K. Esteifi	<i>On Numerical Predictions of Turbulent Cross-Flow Induced Vibration: 2D Forces on a Cylinder and Wake Interaction:</i> A. Elbanhaway
			<i>The Computation of Buoyant Flows in Differentially Heated Vertical and Inclined Cavities:</i> A. Omranian
			<i>Unsaturated Model for Water Sensitive Materials:</i> X. Chen

16:30 Prize Giving (GB/C1)

Posters will be on display in GB / B7 throughout the day.