

MACE PGR CONFERENCE 2017 SCHEDULE



09:30 - 09:35	Welcome	PGR Director/Head of School
09:35 - 10:00	Keynote speaker	Dr Hao Lee
10:00 - 11:00	Session 1 : Structural Modelling and Design	
1.1	Numerical modelling of concrete subjected to transient thermal conditions	Giacomo Torelli
1.2	Equivalent plane stress FE models for grout-filled buckling restrained braces	Manuel A. Calzeta Valdes
1.3	Non-linear simulation of masonry behaviour under cyclic loads	Kurdo Abdulla
1.4	Bending behaviour of reinforced concrete beam with two layers of different grades of concrete	Ataria Robert Bennett
11:00 - 11:20	Refreshment Break	
11:20 - 12:20	Session 2 : Infrastructures and Sustainability	
2.1	Simulation of wave downfall pressures on coastal protection structures: challenges and state-of-the-art modelling	Annelie Baines
2.2	Risk assessment of the seismic behaviour of the cantilever retaining wall	Junied Bakr
2.3	Simplified stress-strain model for liquefied soil and practical implication to p-y curve	Bashar Ismael
2.4	Thermal performance of social housing building envelope in hot climate	Bianca Negreiros
12:20 - 13:40	Lunch Break and Posters Session	
13:40 - 14:40	Session 3: Fluids	
3.1	Modelling of In-Line tube banks in AGR boilers	James L. Blackall
3.2	Experiments on vertical flexible filaments in cross flow	Jorge Silva
3.3	Advanced hypersonic flow testing techniques	Tom Fisher
3.4	Towards a Grid-Independent Hybrid RANS/LES Model using A priori Testing	P. Nguyen
14:40 - 15:40	Session 4: Applied Fluids	
4.1	Electrospray pulmonary drug delivery system	Fathi A Lajhar
4.2	Characterization of photopolymerized hydrogels for cartilage applications	Hussein H. M. Mishbak
4.3	A simulation toolset for resonant piezoelectric MicroPumps	Ahmed Mohamed
4.4	Streaming current generation for 316 stainless steel in pure and lithiated water	M.Szolcek
15:40 - 16:00	Refreshment Break	
16:00 - 17:00	Session 5: Materials and Manufacturing	
5.1	Frequency Dependence of Fatigue Crack Growth in 304 Stainless Steel	Sarmed Salih
5.2	Accident Tolerant Fuels for Nuclear Power	Roxanne Neall
5.3	Fracture under transverse shear of hybrid composites with commingled yarns	Chengguang Liu
5.4	The Effect of AE-Sensor and Accelerometer Mounting Location on Signal Quality in Micro Drilling	Norshah Afizi Shuaib
17:00 - 17:15	Closing remarks (PGR Director and Conference Committee)	
17:15 - 18:30	Networking	
18:30 - 21:30	Evening Social event with Prize-giving (Black Dog Ballroom, 11 - 13 New Wakefield St, Manchester, M1 5NP)	