



MACE PGR CONFERENCE 2018 26th March 2018 - George Begg - Room C1

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| 09:25 - 09:30 | Welcome | PGR Director/Head of School |
| 09:30 - 10:15 | Keynote Speaker | Session chair: B.D. Rogers |
| Session 1: Building Engineering and Climate Change | | Session chair: Neema Opiyo |
| 10:15- 11:00 | Fire resistance of composite buildings with earthquake damage to fire protection | Riza Suwondo |
| | Making hospitals resilient to climate change and its implications on Power Networks. | Ilias Gennis |
| | Evaluating coffee stems potential for generating power in small-scale downdraft gasifiers-gas engine systems in Colombian coffee farms | Samira Garcia-Freites |
| 11:00 – 11:45 | Refreshment and Poster session | Session chair: Mutiu Alabi-Bello |
| Session 2 : Wind & Geomatic Engineering | | Session chair: Ilias Gennis |
| 11:45- 12:45 | Assessment of Offshore Wind Energy opportunities in India using WRF for resource simulation including sea breeze | Rohan Kumar |
| | Effect of foundation soil stiffness on seismic earth pressure | Junied Bakr |
| | Upper bound solution of laterally loaded short rigid piles in undrained clay | H.Hassan |
| | Effect of liquefaction on the seismic response of port facilities in reclaimed islands: a case study from the 2016 Kumamoto earthquake sequence | Bashar Ismael |
| 12:45– 14:00 | Lunch Break | |
| Session 3: Multi-Phase Flows and Materials | | Session chair: Ehimen Iyamabo |
| 14:00- 14:45 | Design of low residue packs by Smoothed Particle Hydrodynamics (SPH)" | Aaron English |
| | Dynamic Modelling of Two-Phase Cooling Systems Using the Object-Oriented Modelling Platform EcosimPro | Viren Bhanot and Paolo Petagna |
| | Experimental Model for Functional Evaluation of the Effects of Electrical Stimulation: Alternating Current Effects in Human Dermal Fibroblasts | Edgar A. Pina-Galan |
| | Session chair: Alexandra Alcantara Guardo | |
| 14:45-15:30 | An in-situ SEM study of transverse failure in unidirectional composite laminate reinforced by Polypropylene/S-glass hybrid yarn | Chengguang Liu |
| | Tool/Chip Contact Phenomenon Modeling for Cutting Tools with Chip Breakers. | Ahmed Alghamdi |
| | Towards real-time urban wind flow modelling using an embedded large-eddy simulation lattice Boltzmann method | Marta Camps Santasmasas |
| 15:30 – 16:00 | Refreshment Break | |
| Session 5: Fluid-Structure Interaction and Turbulence | | Session chair: Qiangjun Zhang |
| 16:00- 17:00 | Numerical simulation of turbulent flow and drop break-up in a high pressure | Ioannis Bagkeris |
| | Implementing numerical wall function for large eddy simulation in OpenFOAM" | Brendan Iyamabo |
| | Fluid-structure interaction modelling of cardiovascular applications using discrete methods. | Benjamin Owen |
| | Flow-Induced Instability of Flexible Filaments Hanging in Cross Flow | Jorge Silva-Leon |
| 17:00 - 17:05 | Closing remarks | (PGR Director and Conference Committee) |
| 17:05- 18:00 | Networking & Chillout | ALL |
| 18:00 - late | Evening Social event with Prize-giving | ALL |