



**Northumbria  
University**  
NEWCASTLE

**Faculty of Engineering  
and Environment**

Department of Architecture and Built Environment

# Young Researchers' Forum IV

9<sup>th</sup> April 2018, Great Hall - Sutherland Building

Newcastle upon Tyne

# Programme



The Institute of Concrete Technology



## Programme

09:00	Registration		
09:45	Welcome and introductory talks		
10:00	Hanein, T.	On the Sustainable Development of Cement	Sheffield University
10:10	Reid, B.	The Mechanical Properties of Pervious Concrete Utilizing Construction and Demolition Waste with Varying Aggregate Sizes	Northumbria University
10:20	Hughes, C.	Performance of typical CLT wall panel to CLT floor panel connections under monotonic and cyclic loading	Queen University Belfast
10:30	Goyal, A.	Pull-off Strength Behaviour of Zinc Rich Paint Coating on Concrete Surface	Coventry University
10:40	Zunino, F.	Influence of kaolinite content, limestone particle size and mixture design on early-age properties of limestone calcined clay cements (LC3)	EPFL, Switzerland
10:50	Ye, J.	Development of Optimum Cold-formed Steel Beams in Bending, Shear and Web Crippling	Bath University
11:00	Coffee break		
11:30	Rostami, R.	Combined effect of Polymeric Fibres and SAP on the Performance of Concrete and Repair Mortars: A review	Glasgow Caledonian University
11:40	Demirci, C.	Recent findings on the assessment of seismic demands in CLT buildings	Imperial College London
11:50	Blackstock, A.	Investigation into the use of calcined Northern Irish lithomarge as a supplementary cementitious material	Banah UK Ltd
12:00	Mustard, G.	Characterisation of municipal solid waste incineration air pollution control residues for use as secondary construction materials	Bath University
12:10	Mi, T.W.	Characterisation of the passive film formed on steel bar embedded in concrete by Raman spectroscopy – a review	University College London
12:20	Ye, J.	Grid generation and optimisation for free-form grid structural design based on dynamic relaxation method	Bath University Zhejiang University, China
12:30	Lunch		
13:30	Gilligan, E.	Material Mixology; 'Without precedent' in architectural education	Queen University Belfast
13:40	Yliniemi, J.	Alkali-activated mineral wool wastes	University of Oulu Sheffield University
13:50	Kibriya, L.	Numerical Modelling of Nonlinear Steel Rocking Frames	Imperial College London
14:00	Chaliasou, A.	Concretes incorporating recycled geopolymer aggregate- Implications and properties correlations	Bath University
14:10	Anike, E.	Recycled Concrete Aggregate and its Prospects in Structural Concrete	Coventry University
14:20	Oakes, L.	A critical evaluation of the influence of the liquid to solid (L/S) ratio on the mechanical properties of novel geopolymer cements developed to create structural insulated panels	Ulster University
14:30	Muslim, F.	The interface bond strength between reinforcement spacer and concrete	Imperial College London
14:40	Coffee break		
15:10	Gilligan E.	Material imagination; a new methodology for architects and materials	Queen University Belfast
15:20	Alalea Kia	Examining of the Clogging Potential of Permeable Concrete and Development of a high Strength Clogging Resistant System	Imperial College London
15:30	Almeida, F.C.R.	Effect of aggregates on SAP performance in cementitious matrices with ground granulated blast-furnace slag	Glasgow Caledonian University
15:40	Dams, B.	Cementitious Mortars and Polyurethane Foams for Additive Building Manufacturing	Bath University
15:50	Thompson, D.	Performance of concrete tanks in biogenic environments	Queen University Belfast
16:00	Sayed, E.	A Biomimetic Future. How can nature inspire us to reimagine materials and manufacturing?	Bihom Ltd Northumbria University
16:10	Elmslie, C.	Numerical Modelling of Optimum Stainless Steel Beam Subject to Shear	Northumbria University
16:20	Prizes and acknowledgements		