“No matter what engineering field you're in, you learn the same basic science and mathematics. And then maybe you learn a little bit about how to apply it.”

- Noam Chomsky -
PhD newsletter is to report PhD student activities and achievements, which cover
Thesis submissions and PhD completions,
Journal paper publications,
Conference presentations,
Awards,
Societal engagements,
Anything you consider of importance to other colleagues
Please report those items to:
Jack Carter-Hallam (jch@liv.ac.uk).
Thesis submissions and PhD completions

Vasileios Pastrikakis (Supervisors: Barakos and Steijl) passed his PhD viva with Minor corrections on 22 April. Thesis was entitled ‘Flow control for helicopter rotors’

Dominic Williams (Supervisors Elsheikh and Zheng) passed his PhD viva with Minor corrections on 17 April. Thesis was entitled ‘Patient-specific numerical simulations based on analysis of optical coherence tomography images’

Michael Jones (Supervisor: Jump, Walker and Cooper) had his minor corrections approved on 7 April. Thesis was entailed ‘Rotorcraft pilot couplings - tools and techniques for alleviation and detection’

Stephania Herodotou (Supervisors: Potter and Tatlock) passed her PhD viva with minor corrections on 2 April. Thesis was entitled ‘Zirconium doped zinc oxide thin films deposited by atomic layer deposition’.

New PhD Starters (April 2015)

(1) Yanhua Chen - Statistical analysis and probabilistic modelling of complex financial systems using network theory – Konstantin Zuev
(2) An Hu - Advanced control for dynamically substructure systems with application to testing of mechanical and structural systems – Paolo Paoletti
(3) Sadegh Rahrovani – Visiting Research Student – Ivan Au

Current ongoing PhD projects

(1) Max Aldridge - GE Dowty/Technology strategy board: the integrated turboprops propulsion system project – Mark White
(2) Keith Arnold - ODS alloys for additive manufacture of high temperature components in power generation – Gordon Tatlock
(3) Jan Baloyo - Porous metals with novel structures for optimum heat exchange performance – Yuyuan Zhao
(4) Davide Biolè - Dynamic wetting of dilute polymer solutions – Volfango Bertola
(5) Simone Colonia - Multi-physics computational fluid mechanics - Rene Steijl
(6) Tiago De Jesus Henriques - The effects of realistic conditions on tidal stream turbines - Robert Poole
(7) Mark Duffield - Novel eco-friendly metal/metal oxide thick film heating elements – Gordon Tatlock
(8) Daniel Eddon - Impact of marine renewables on coastal hydrodynamics and sediment pathways - Ian Walkington
(9) Rosti Hama Rashid - Determination of the mechanical role of proteoglycans in the canine cruciate ligament complex - Eithne Comerford
(10) George Hoholis - UCAV fluidic control - Kenneth Badcock
Journal papers


(4) Abed W. M., Whalley, R. D., Dennis, D. J. C., Poole, R. J., "Numerical and experimental investigation of heat transfer and fluid flow characteristics in a micro-scale serpentine channel", International Journal of Heat and Mass Transfer

Conference Presentations

Lancaster IM, Al-Khalid H "Viscoelastic and Damage Characterization of Polymer Modified Bitumen from Different Origins", 3rd Meeting and Technical Conference of the Middle East Society of Asphalt Technologists, American University of Sharjah, United Arab Emirates.

Abed W. M., Whalley, R. D., Dennis, D. J. C., Poole, R. J., "The effect of elastic turbulence on heat transfer in a square serpentine channel", 10th Annual European Rheology Conference, 14-17 April 2015, Nantes France

Upcoming seminars

Upcoming Seminars Please see list below of upcoming Wednesday seminars for the month of April:

13 May Jon Bridge - “Colloid, filters and sensors: lifting the lid on contaminants in natural and engineered systems”

20 May Jude Curran – Nanoscale material modifications for biomedical applications

27 May Stuart Edwardson - Advanced manufacturing with lasers
**Conference attendance**

Jan Baloyo attended the Materials Research Society conference (April 6-10) in San Francisco, California. The title of the paper was “Heat Transfer Performance of Micro-Porous Copper Foams with Homogeneous and Hybrid Structures Manufactured by Lost Carbonate Sintering”.

Whilst also at the conference, Jan was also appointed to report on the Materials Research Society meeting scene (online blog), you can read what Jan and other wrote on the following website: [http://www.mrs.org/meeting-scene/](http://www.mrs.org/meeting-scene/)

**School of Engineering PGR Review**

The School of Engineering will undergo a PGR review over the coming months.

The review will look at the School’s current PGR capabilities with the object of identifying strengths and weaknesses of the School. It will also look back at records for the previous 6 academic years. A panel of student representatives has already been formed that is a cross sample of the current student cohort to be involved in the review. However if you feel strongly about an certain topic, please don’t hesitate to approach the postgraduate office to voice your opinions.

It is expected that there will be minimal distribution to students over this period; however there may not be immediate responses to some queries.

For those that wise to learn more about the review, an open student briefing will be held by Sara Crowley from University Research Policy team at 2.00pm on Friday 1st May in the Mason Bibby Common Room. This briefing WILL NOT count towards seminar attendance.

**Awards**

Alfredo Garbuno Inigo has won the EE Ex-ITAM Research Award from the Mexico Autonomous Institute of Technology. His award was in the category of applied mathematics, for his BSc dissertation. Dissertation entitled ‘Optimisation methods for regularised logistic regression’.