



Annual research event convened by the Fluid Separations Special Interest Group
What's New in Fluid Separations?
Lancaster University (Management School Robinson LT16 WPA019)
Wednesday 28 June 2023

This annual research event aims to promote interactions within the separations community. Talks will be given by young academic or industrial researchers and PhD students in the final stages of their research. The event will give the participants a chance to discover the diverse and exciting research work currently underway in the UK and there will also be several opportunities for networking and discussions between the delegates throughout the day.

A panel of judges, from both industry and academia, will evaluate the presentations and give some general feedback at the end of the research event. The best contributors will receive prizes, from a total prize allocation of £1000, to be awarded during a social gathering at the end of the day.

PROGRAMME

9:00	Registration and Coffee/Tea
9:15	Welcome and Introduction <i>Basu Saha, Lancaster University, UK and David Martyn, bp Solutions, UK</i>
9:30	Sizing and optimisation of dehydration pervaporation systems <i>Cilian Ó Súilleabháin, Munster Technological University, Ireland</i>
10:00	Photocatalytic self-cleaning graphene-oxide/ZnO membrane for efficient dyes removal <i>Nurul A. Mazlan, University of Edinburgh, UK</i>
10:30	Acetone extraction of brominated flame retardants from E-waste plastics of acrylonitrile-butadiene-styrene copolymer <i>Alejandro Moure Abelenda, Lancaster University, UK</i>
11:00	Coffee/Tea
11:15	Mixed matrix membranes for CO₂ gas separation in Li-air batteries <i>Constantin Puscalau, University of Nottingham, UK</i>
11:45	Testing and modelling of sustainable membranes for gas separation and packaging <i>Kseniya Papchenko, , University of Edinburgh, UK</i>
12:15	In-silico optimisation of HPLC under simultaneous manipulation of temperature and solvent composition <i>Konstantinos Katsoulas, UCL, UK</i>
12:45	Lunch
13:30	In-silico approach for screening of nanoporous materials for urea adsorption in haemodialysis application <i>Thomas Fabiani, University of Edinburgh, UK</i>
14:00	Optimisation of greener alkene epoxidation via response surface methodology for effective separation of epoxides from the reaction mixture <i>Md Masud Rana Bhuiyan, Lancaster University, UK</i>
14:30	Electrochemical deposition of ZIF-67 membranes <i>Eman Hussein, University of Nottingham, UK</i>
15:00	Coffee/Tea
15:15	Control the metal-cation cross-linking to synthesise high-quality graphene oxide membranes for water treatment <i>Randy Chen, University of Edinburgh, UK</i>
15:45	Increasing liquid-liquid extraction efficiency in multi-stage reactors <i>Ed Bainbridge, Stoli Chem, University of Warwick, UK</i>
16:15	Refreshments
16:45	Announcement of prize winners, general feedback and discussion
17:30	Close

Event registration: Pre-registration is essential. To register your interest in attending, please use the following link:
<https://www.icheme.org/membership/communities/special-interest-groups/fluid-separations/events/28-06-23-whats-new-in-fluid-separations/>