



UK MEMBRANE SHOWCASE
13th-14th June 2018
National Graphene Institute
Manchester



A meeting of academics and industrialists to explore opportunities for membrane technology

If you wish to attend, please email ameur.bayar@manchester.ac.uk before **30th May** with the following information

Name: _____ Affiliation: _____

Can you attend the whole meeting, or only part (please give dates/times)?

Would you like to present a poster?

Would you like to attend the dinner on the Wednesday evening?

Do you have any dietary restrictions?

Would you like to join a tour of facilities around the University of Manchester on the Thursday afternoon?

Would you be interested in a workshop on any particular topic (please suggest topic)?

Are you happy for your name and affiliation to be included in a list of participants?

<p>Graphene-based membranes Grant EP/K016946/1</p>		<p>EPSRC Engineering and Physical Sciences Research Council</p>		<p>From membrane material synthesis to fabrication and function (SynFabFun) Grant EP/M01486X/1</p>	

PROVISIONAL PROGRAMME

WEDNESDAY 13th JUNE 2018

09:30 Arrival – Coffee/tea

- 10:00 Welcome, introduction and overview (Peter Budd, Manchester)
- 10:20 New polymers for membrane separations (Neil McKeown, Edinburgh)
- 10:40 New polymers for membrane separations (Mariolino Carta, Swansea)

11:00 Coffee/Tea

- 11:20 Metrology/standards needed in graphene dispersions for graphene-based membranes (Cinzia Casiraghi, Manchester)
- 11:40 Graphene oxide membranes (Rahul Nair, Manchester)
- 12:00 Characterization of membrane materials (Eric Prestat, Manchester)
- 12:20 Mixed gas separation (John Jansen, ITM-CNR, Italy)

12:40 Lunch and posters

- 13:40 High temperature membranes (Ian Metcalfe, Newcastle)
- 14:00 Molecular-scale modelling of membrane materials (Flor Siperstein / Paola Carbone, Manchester)
- 14:20 Multi-scale modelling of membrane materials (Andrey Jivkov, Manchester)
- 14:40 Designer membranes (Qilei Song, Imperial)

15:00 Coffee/tea

- 15:20 Water transport through graphene oxide membranes: the roles of driving forces (Kang Li / Bo Wang, Imperial)
- 15:40 1D membranes (Davide Mattia, Bath)
- 16:00 Membranes for separations in organic solvents (Andrew Livingston, Imperial)
- 16:20 Membranes for bioalcohol recovery (Patricia Gorgojo, Manchester)
- 16:40 DISCUSSION
- 17:00 End of session

19:00 DINNER Chinese Banquet: Tai Pan Restaurant, 81-97 Upper Brook Street, Manchester M13 9TX.

THURSDAY 14th JUNE 2018

09:00 Arrival – Coffee/tea

- 09:20 Barrier applications (Oana Istrate, Manchester)
- 09:40 Fuel cell applications (Stuart Holmes, Manchester)
- 10:00 Sensor applications (Aravind Vijayaraghavan, Manchester)
- 10:20 Membranes for carbon dioxide capture (Maria-Chiara Ferrari, Edinburgh)
- 10:40 Membranes for the food and biotechnology industries (John Chew, Bath)

11:00 Coffee/tea

- 11:20 Sustainable membrane technology (Gyorgy Szekely, Manchester)
- 11:40 The membrane business (Andrew Boam, Evonik)
- 12:00 Membrane development in the Graphene Engineering Innovation Centre (Wayne Harrison, Manchester)
- 12:20 Graphene-based membranes – achievements (Peter Budd, Manchester)
- 12:40 SynFabFun – opportunities (Ian Metcalfe, Newcastle)

13:00 Lunch

- 14:00 Workshops and Tours (NGI, Chemistry, GEIC, Chem. Eng.)

LOCATION

The meeting will take place in the seminar space on the third floor of the National Graphene Institute (NGI).

The NGI is Building 90 on the University of Manchester Campus Map. The entrance to the NGI is on Booth Street East.

Maps and travel advice can be downloaded from the University of Manchester website: <http://www.manchester.ac.uk/discover/maps/>

A pass must be carried when in the NGI.

Visitors will be provided with a pass by reception. Participants from the University of Manchester will need their University card.