



Special Interest Group 10

Fluid Mechanics of Cleaning and Decontamination

2017 Summer Meeting

The University of Manchester, 3rd – 4th July 2017

Programme

Monday 3 July

12:00 **Registration**

Frank Adams Room (1st floor), School of Mathematics, Alan Turing Building ([here](#))

12:30 **Lunch**

Session A		
13:30	Julien & Ian	Welcome & Overview
13:40	Nick Daish	UK Fluids Network: updates
13:50	Rachael Rowlands-Jones	Formulation Group - Knowledge Transfer Network
14:00	Nevine Amer	Overview of project GO AHEAD
14:30	John Chew	Online cake fouling detection in cross-flow membrane filtration

15:00 **Coffee Break** (and cakes!)

Session B		
15:20	Julien Landel	Decontamination processes on flat surfaces
15:40	Merlin Etzold	Experiments and simulations of the decontamination process in material fractures
16:05	Vincent Cregan	An introduction to the Pharmaceutical Manufacturing Technology Centre (University of Limerick)

16:20 **Poster Session**

- Bethany Connolly *Encapsulation of Nanoparticles in Metal-Organic Frameworks: New Avenues in Catalyst Recycling for Decontamination Applications*
- Michael Bird *Fabric cleaning: the importance of hydrodynamics and mechanical action*
- Julien Landel *Science and mathematics to neutralize chemical warfare agents*

Session C		
16:50	Alex Jenkins	Mode of contamination and other factors affecting decontamination decision making
17:05	Dudley Hewlett	TBA
17:20	Harry McEvoy	Can decontamination make things worse?
17:35	Stefan Koch	TBA

19:15 **Join us for dinner!** (Please confirm with Julien in advance)

Zouk, 5 The Quadrangle, Chester St, Manchester M1 5QS ([here](#))

Tuesday 4 July

8:30 **Tea & Coffee** *Frank Adams Room*

Session D		
9:00	Rajesh Bhagat	Cleaning by moving liquid jets: models and supporting experiments
9:30	Sabine Gold	Dresden Workgroup "Industrial Cleaning Technologies"
9:45	Zhihua Xie	Numerical simulation of interfacial flows in environmental and industrial problems
10:15	Josh Mehta	On the fabrication of a SnO ₂ -doped metal-organic framework for applications in photocatalysis

10:45 **Coffee Break**

Session E		
11:15	Lyes Kahouadji	Code BLUE: A new solver for multiphase flow
11:45	Alex Lukyanov	Capillary transport and moving contact lines - a regularized problem
12:15	Ian Wilson	Tools for studying cleaning
12:45	Julien & Ian	Future programme and discussion

13:00 **Lunch and networking** *(Room available until 16:00)*