



Special Interest Group 10
Fluid Mechanics of Cleaning and Decontamination

2018 Winter Meeting

University of Bath, 29th – 30th January 2018

Programme

Monday 29 January

11:45 **Registration**

Room 3.9, Chancellor's Building ([here](#))

12:00 **Lunch**

Session A		
13:15	John, Julien & Ian	Welcome & Overview
13:25	Mohammad Hakim Che Harun	FO microbubbles for cleaning
13:50	Alistair Rodgers	An investigation in to the cleaning mechanisms of liquid jets and sprays used in batch cleaning
14:15	Steven Wang	A particle flow instability: mechanism and applications

14:40 **Poster Session and Coffee Break** (and cakes!)

- Michael Bird *Fabric cleaning: the importance of hydrodynamics and mechanical action*
- Merlin Etzold *Modelling chemical droplet decontamination: the importance of fluid dynamics*
- Nabil Si Salem *Contamination of building materials on nuclear sites*
- Vincent Cregan *Applied Mathematics and Cleaning*

15:15 **Case Study**

- Harry McEvoy *Decontamination challenges at Dstl*

15:30 Breakout group session (4 groups)

17:30 Presentation of results (~10 min each group)

19:15 **Join us for dinner!** (Please confirm on [Doodle](#) by 12:00 on Thu. 25 January)

Brasserie Blanc 6-11 Queen Square, Bath, BA1 2HH ([here](#))

Tuesday 30 January

8:30 **Tea & Coffee**

Room 3.9, Chancellor's Building

Session B		
9:00	Rajesh Bhagat	On the origin of the hydraulic jump in a thin liquid film
9:25	Hazem Matar	A hybrid diffusion cell model for the simultaneous assessment of skin and hair decontamination
9:50	Lorenzo Botto	Removing particles with capillarity: fundamentals of particle adsorption at fluid interfaces

10:15 **Coffee Break**

Session C		
10:35	Alex Lukyanov	Surface transport and decontamination of rough surfaces
11:00	Kristian Kiradjiev	Modelling removal of sulphur dioxide from flue gas
11:25	Mohit Dalwadi	Modelling decontamination with an immiscible cleanser

11:50 **Grand Challenges in Cleaning and Decontamination**

12:00 Breakout group session (4 groups)

12:45 Lunch served

13:00 Presentation of results by each group (~10 min each)

13:45 **Wrap up** (*Room available until 14:15*)