



UK Fluids Network
Special Interest Group on
Particulate Matter Filtration Flows in Automotive and
Marine Applications



The University of
Nottingham



University of
Chester



Technology challenges for addressing urban air quality

University of Nottingham, December 7th, 2022

Energy Technologies Building, Room B27, Jubilee Campus, NG7 2TU

AGENDA

- 09.45 – 10.00 Arrival and welcome
- 10.00 – 10.30 **Reza Ziarati (Centre for Factories of the Future)**
Pollution from transport systems: A strategy for sustainable transport systems
- 10.30 – 11.00 **Matteo Icardi (University of Nottingham)**
Particulate flows in porous media: multiscale analysis and numerical simulations
- 11.00 – 11.15 Break/discussions
- 11.15 – 11.45 **Andrew McMullan (University of Leicester)**
Towards Combining Virtual Reality with Large Eddy Simulations of Urban Environment Flows
- 11.45 – 12.15 **Jose Martin Herreros (University of Birmingham)**
Characterisation of emissions from multiple sources
- 12.15 – 12.45 **Tim Watling (Johnson Matthey)**
A compressible flow model for symmetric and asymmetric particulate filter backpressure
- 12.45 – 13.30 Lunch break and discussions
- 13.30 – 14.00 **Richard Taylor (Nottingham City Council)**
The Environment Act 1995 Part 3 - Local Air Quality Management. A practitioner's experience
- 14.00 – 14.30 **Mark Peckham (Cambustion)**
Identifying individual high-emitting vehicles
- 14.30 – 15.00 **Mark Dewey (Lubrizol)**
Fuel and lubricant technology for lifetime low emissions
- 15.00 Closing remarks and networking

Further information and contacts

[Registration link](#)

Information for [travelling to Jubilee campus](#)

[Parking information](#) for visitors

Parking zones on the Jubilee [Campus map](#)

Dr Svetlana Aleksandrova
University of Leicester
sa1020@leicester.ac.uk

Dr Humberto Medina
University of Nottingham
Humberto.Medina@nottingham.ac.uk

Dr Andy Williams
University of Chester
andrew.williams@chester.ac.uk