



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



Particulate Matter: lifecycle and mitigation

University of Leicester, March 11th, 2024

Belvoir City Lounge, Charles Wilson building, University Road LE1 7RH

MEETING PROGRAMME

| | |
|---------------|---|
| 9.45 – 10.00 | Arrival and refreshments |
| 10.00 – 10.30 | Tim Watling (Johnson Matthey) <i>"Simulating Catalytic Reaction and Soot Oxidation in Coated Particulate Filters: A Simplified Modelling Framework Including Diffusion Effects"</i> |
| 10.30 – 11.00 | Callum Samuels (Coventry University) <i>"Wall Permeability Estimation in Automotive Particulate Filters"</i> |
| 11.00 – 11.15 | Break/discussions |
| 11.15 – 11.45 | Duncan Lockerby (University of Warwick) <i>"Simulating the aerodynamics of soot particles"</i> |
| 11.45 – 12.15 | Jose Martin Herreros (University of Birmingham) <i>"Emissions and 3D printing - Challenges and Opportunities"</i> |
| 12.15 – 13.15 | Lunch break and discussions |
| 13.15 – 13.45 | Sean Beevers (Imperial College London) <i>"The air quality health and economic costs and benefits of a zero carbon UK? A study of road traffic and building heating"</i> |
| 13.45 – 14.15 | David Graham (Uniper Technologies) <i>"PM2.5 emissions from Energy from Waste plants"</i> |
| 14:15 - 14:30 | Break/discussions |
| 14.30 – 15.00 | David Green (Imperial College London) <i>"Quantifying Tyre Wear in the Urban Aerosol Mixture"</i> |
| 15.00 – 15.30 | Adrian Gaylard (Jaguar Land Rover) <i>"Simulating the interaction of particles and droplets with road vehicles"</i> |
| 15.30 – 16.00 | Reza Ziarati (C4FF) <i>"Impact of Decarbonization and Use of Alternative Fuels with Specific References to Shipping Industry"</i> |
| 16.00 | Closing remarks and networking |

Further information and contacts

[Meeting Registration link](#)

[SIG website](#)

[UK Fluids website](#)

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