



Cambridge Particle Meeting, 18 May 2012

Lecture Room 4, Engineering Department, Cambridge University, Trumpington Street

Chairmen: **Adam Boies** and **Jacob Swanson** (University of Cambridge), **Jon Symonds** (Cambustion)

8:45	Arrival with tea and coffee	Session 1 Filtration	
9:15	Jacob Swanson	University of Cambridge, UK	Reduction of DPM and NO _x using 4-way Catalyzed Filtration Systems
9:45	Colin Jenkins	Adaptive Instruments Ltd, UK	Closed Crankcase Ventilation: Inline Measurements of Oil Aerosols
10:15	Mike Braisher	Jaguar Land Rover Powertrain Engineering, UK	Particulate Mass Measurement: A Statistical Study
10:45	Break with tea and coffee	Session II Fundamentals: Particle Formation, Aggregation, and Mass	
11:00	Peter McMurry	University of Minnesota, USA	New Measurements of Clusters and Nanoparticles: Implications for Atmospheric Nucleation & Growth Models
11:30	Max Eggersdorfer	Particle Technology Laboratory, ETH Zurich, Switz.	Dynamics of Fractal-like Aerosols During Sintering
12:00	Jon Symonds	Cambustion Ltd, UK	The Centrifugal Particle Mass Analyser as a Fundamental Particle Mass Standard
12:30	Buffet lunch served in LR5 or outside	Session III Particle Emissions – Modelling and Measurement of Combustion Generated Particles	
13:30	Christopher Kolodziej	Universidad Politécnica Valencia, Spain	Particle Size and Number Emissions from Dual-Fuel Reactivity Controlled Compression Ignition
13:50	Mohammed Ojapah	Brunel University London, UK	Effects of Combustion Modes on Gaseous and Particulate Matter Emissions in a 2/4-Stroke Switchable Direct Injection Gasoline Engine
14:10	Prem Lobo	Missouri University of Sci & Tech, USA	Demonstration of an Aerospace Recommended Practice for Measuring Non-volatile PM Emissions from Gas Turbine Engines using a Prototype System
14:30	Dongping Chen	University of Cambridge, UK	A Fully Coupled Simulation of PAH and Soot Growths with a Population Balance Model
15:00	Break with tea and coffee	Session IV Particle Emissions - Fuel and Oil Effects	
15:15	Hongming Xu	University of Birmingham, UK	Studies of Particulate Matter Emissions of Automotive Engines Using Biofuels
15:45	David Kittelson	University of Minnesota, USA	Particle Emissions from a Soot Free Engine
16:15	Felix Leach	University of Oxford, UK	The Effect of Fuel Volatility and Aromatic Content on Particulate Emissions
16:45	Paul Hellier	University College London, UK	Soot Production and the Importance of Molecular Structure of Novel Diesel Fuels