



Atomisation and Spray Combustion

The autumn meeting of The Combustion Institute (British Section) will be held on Wednesday 26 September 2007 at the Mechanical Engineering Department (Lecture Room 342), Imperial College London, Exhibition Road, London SW7 2BX.

If you would like to present a poster or learn of further details, contact the organiser: Yannis Hardalupas (y.hardalupas@imperial.ac.uk).

PROGRAMME

9.15 – 9.55: **Coffee, Registration, Posters on display – Mech. Eng. Dept. Concourse**

9:55 – 10:00: Welcome

Computational Modelling

10:00 - 10:40: "Spray atomisation modelling for engines: RANS and LES approaches" by David Gosman, Imperial College London, Mechanical Engineering Department

10.40 - 11.20: "Modelling ligament-forming instabilities in jet atomisation" by Stéphane Zaleski, CNRS and Université Pierre et Marie Curie (Paris VI), France

11:20 - 12:00: "Simulation approaches for spray combustion" by Julien Reveillon – CNRS and Université de Rouen, CORIA, France

12:00 – 13:45: **Lunch and display of Posters - Mechanical Engineering Dept. Concourse**

12:30: **AGM of Institute of Physics - Room 342**

13:00: **AGM of Combustion Institute British Section – Room 342**

Laser Diagnostics

13:45 - 14:25: "An examination of the limits of planar spray diagnostics for high pressures and high temperatures" by Doug Greenhalgh – University of Cranfield, School of Engineering

14.25 - 15.05: "Optical methods for near nozzle spray characterisation" by Alex Taylor, Imperial College London, Mechanical Engineering Department

15.05 - 15.20: **Tea and posters – Mechanical Engineering Dept. Concourse**

Applications

15.20 – 16.00: "Near-critical atomization issues of cryogenic fluids: Experiments and Modelling" by Oscar Haydn & Michael Oschwald, DLR Lampoldshausen, Institute of Space Propulsion, Germany.

16.00 - 16.40: "Spray and combustion issues in gas turbine combustors" by Ken Young - Chief of Combustion Research and Technology, Rolls Royce UK

16.40 - 17.20: "Automotive Sprays and combustion" by Morgan Heikal, University of Brighton, Engineering School

17.20 – 17.30: Discussion and Closure

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REGISTRATION

The following registration fee is payable (please tick one box); it covers the cost of lunch, etc. Cheques are payable to "Imperial College London". Please return to Yannis Hardalupas / Serena Dalrymple, Mechanical Engineering Department, Imperial College London, London SW7 2BX no later than 19 September 2007. Car Parking is not available at Imperial College and parking meters in the area are very expensive. In addition, Imperial College is within the Congestion Charge area of London. Therefore, it is advisable to avoid driving to central London.

For information, please look at the Imperial College Website.

For a map of where the Mechanical Engineering Department is, please look at:

<http://www3.imperial.ac.uk/portal/pls/portallive/docs/1/16467696.PDF>

For travel information, please look at:

<http://www3.imperial.ac.uk/contactsgettinghere/travelguidesandmaps/traveltoandfromimperialcollege>

For hotels in the area of South Kensington, please look at:

http://www.imperial.ac.uk/conferences/index.asp?page_id=3

Member of Combustion Institute*	Non-Member	Student/Retired	Annual Membership Comb.. Inst.**
<input type="checkbox"/> £40	<input type="checkbox"/> £80	<input type="checkbox"/> £20	<input type="checkbox"/> £20 or £10 (student/retired)

Name -----

Address-----

Tel: -----

Fax :-----

E-mail :-----

* This includes membership of Coal Research Forum and IOP Combustion Physics Group

** For a Membership Form see: <http://www.combustion.org.uk/>