DATES:

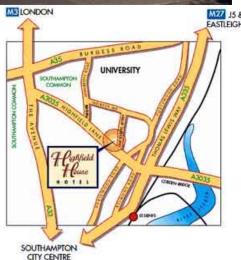
2nd and 3rd of March 2009

VENUE:

http://www.highfieldhotelsouthampton.co.uk/

The venue for the workshop is the Highfield House Hotel and is located a short walk from the Highfield Campus of the University of Southampton.





WEBSITE:

Please check here for updated details, travel information etc.

 $http://www.personal.soton.ac.uk/jss1x07/ehdworksho\\p.htm$

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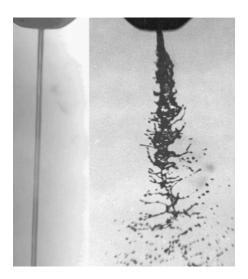
mashayek@uic.edu

SUPPORTED BY:



A workshop on

Electrostatic Atomization of Electrically Insulating Liquids : Principles and Applications





UIC Department of Mechanical and Industrial Engineering

WORKSHOP AIMS:

- 1. To highlight the effectiveness of electrostatic atomization methods for electrically insulating liquids.
- 2. To bring together experts in electrohydrodynamics, unipolar injection of charge, multiphase fluid mechanics, spray technology and combustion.
- To facilitate discussion across these subject areas within the context of electrostatic atomization for electrically insulating liquids.
- 4. To present a complete picture of the physics of the application.
- 5. To bring together the research and the commercial communities in order to foster development and application of the atomization technology, with a particular focus on combustion systems.

The workshop will appeal to researchers working on fundamental aspects of unipolar injection of charge, electrical atomization, spray formation and dispersion.

The workshop will also appeal to high technology and manufacturing companies interested in the unique properties that charged sprays possess.

The workshop hopes to attract people with a range of experience, from PhD students just starting out, to industry experts who can envision how this technology may be useful to them.

WORKSHOP SCOPE:

- Fundamentals of Electrohydrodynamics for dielectric fluids.
- Unipolar injection of charge into quiescent gaseous dielectrics
- Unipolar injection of charge into quiescent liquid dielectrics
- Unipolar injection of charge into flowing liquid dielectrics
- Development of electrostatic atomizer technology for electrically insulating liquids.
- Instability mechanisms of electrically charged liquid jets
- Characteristics of electrically charged sprays generated by charge injection atomization
- Combustion of single electrically charged drops
- Combustion Systems employing electrical atomization and dispersion
- The outlook for electrostatic atomization for transport and other applications

CONFIRMED SPEAKERS

Prof Rodica Baranescu http://www.mie.uic.edu/faculty/baranescu.htm

Prof. Josette Bellan http://sec353.jpl.nasa.gov/JosetteBellan/

Prof. Antonio Castellanos http://alojamientos.us.es/ehd-cgm/miembros/Castellanos/eng/index.html

Prof. Allessandro Gomez http://www.eng.yale.edu/gomez-lab/

Prof. Dimitrios Kyritsis http://www.mechse.uiuc.edu/research/kyritsis/

Prof Farzad Masheyak http://www.mie.uic.edu/faculty/mashayek.htm

Prof. Alexie Saveliev North Carolina State University

Dr. John Shrimpton http://www.soton.ac.uk/ses/people/staff/Shrimpt on J.html

Prof. Jamal S. Yagoobi http://www.iit.edu/engineering/mmae/faculty/yagoobi_jamal.shtml

Prof. Alexander Yarin http://www.mie.uic.edu/faculty/yarin.htm