

**Universities High Voltage Network (UHVnet) in association with the
Institute of Physics Dielectrics Group**

2nd UHVnet Colloquium

“High Voltage Measurement and Insulation Research”

January 21st 2009

Glasgow Caledonian University

Cost: £60 per person

Aim:

This colloquium will provide a forum for communicating current UK University postgraduate research student activities within the fields of high voltage engineering and insulation systems. Invited industrial and academic speakers will also present relevant topics related to general high voltage engineering in the UK, as well as research and development issues within this area. The postgraduate research work will be presented through poster sessions which will have emphases on both applied and pure research activities.

A colloquium booklet containing summary papers of speaker presentations and student poster presentations will be provided to all delegates.

The colloquium is open to all industrial, academic and research personnel with an interest in high voltage engineering, power distribution systems and insulation systems.

Agenda, Speakers and Research Student Presentations Titles are outlined below.

Agenda

- 9:30 – 10:00 Registration and Refreshments
Registration: Foyer of CPD (Continuous Professional Development) Building.
Directions will be given on Campus.
- 10:00 – 10:15 Professor Manu Haddad, Chair of UHVnet, Cardiff University
“Introduction to UHVnet”, Room A005
- 10:15 – 11:00 Dr Erik de Jong, KEMA
"Flex Power Grid Laboratory - Assisting grid integration of distributed generation", Room A005
- 11:00 – 11:30 Professor Chengke Zhou, Glasgow Caledonian University
“On-line HV cable monitoring”, Room A005
- 11:30 – 12:00 Professor Phil Moore, University of Strathclyde
“Advances in radiometric monitoring of partial discharges”, Room A005
- 12:00 – 12:45 Lunch, CDP Building
- 12:45 – 14:45 Research Student Poster Presentation Sessions, UHVnet Universities, CDP Building
- 14:45 – 15:15 Dr Jenny Cooper, National Grid, plc
“HV challenges in the transmission network”, Room A005
- 15:15 – 15:30 Professor Manu Haddad, Chair of UHVnet, Cardiff University
Closing comments and discussion, Room A005

Research Student Poster/Paper Presentations

“Numerical Simulation of Partial Discharge Acoustic Signals in Oil”

S A Ashraf, B G Stewart, C. Zhou, D M Hepburn and J M Jahabar
Glasgow Caledonian University

“PD Signal Diagnostics in High Voltage Underground Cables”

A S Ayub, W H Siew and J J Soraghan
University of Strathclyde

“Point-Plane Pulse Sequence Analysis Pattern Variation as a Function of Insulation Material and Supply Voltage”

I B Bruce and B G Stewart
Glasgow Caledonian University

“Lightening Impulse Ageing of HDPE”

N L Dao, P L Lewin and S G Swingler
University of Southampton

“A Voltage Transducer for High Voltage Applications”

M F Hussin, A Haddad and N Harid
Cardiff University

“Examining the Mathematic Approach for Calculation of Loss-of-Life: Physical Process and Statistical Representation”

M T Ishak and Z D Wang
University of Manchester

“Partial Discharge Location System for Power Transformers”

P Kakeeto, M Judd, D Templeton and J Pearson
University of Strathclyde

“Distributed Wireless Transient Measurement System”

K Y Liu, W H Siew and R W Stewart
University of Strathclyde

“Electrical Testing of Decommissioned 25kV Rail Supply Insulators”

R Mason, A J Reid, M J Given and M D Judd
University of Strathclyde

“On-line Partial Discharge Detection in Medium Voltage Cables using Protection/Instrument Current Transformers”

F P Mohamed, W H Siew and J J Soraghan
University of Strathclyde

“Time Domain Analysis of Switching Transients Fields in High Voltage Substations”

B U Musa, W H Siew and M Judd
University of Strathclyde

“Improved Technique for Locating Insulation Defects in High Voltage Equipment”

T Pinpart and M D Judd
University of Strathclyde

“Dispersion, Rheology and Electrical Properties of Poly(ethylene oxide) / Montmorillonite Nanocomposites”

M D Reading and A S Vaughan
University of Southampton

“The Effectiveness of FDTE Modelling for Refinement of UHF PD Sensor Response Characteristics”

A J Reid, M Stewart and M D Judd
University of Strathclyde

“Monitoring System for Overhead Lines using Communications through Power Lines”

S Robson, H Griffiths and A Haddad
Cardiff University

“On-line Partial Discharge Monitoring in MV Underground Cables and Corresponding Denoising Algorithm”

X Song, C Zhou and D M Hepburn
Glasgow Caledonian University

“Transient Fault Location in low Voltage Underground Distribution Networks”

Y Tao, W H Siew and J J Soraghan
University of Strathclyde

“An Investigation into the Detection of Partial Discharge in Substations”

S Xiao, P J Moore and M D Judd
University of Strathclyde

“Measurement and Analysis of Electric Potential Decay in Corona Charged low-Density Polyethylene Films”

Z Xu, L Zhang and G Chen
University of Southampton

“Comparative Tracking Index Measurements of Materials at Reduced Atmospheric Pressures for Aerospace Applications”

L Zhang and I Cotton
University of Manchester

Travel and Accommodation

For travel information to Glasgow Caledonian University please visit:

<http://www.gcal.ac.uk/the-university/global/contactmaps/traveldirections.html>

Hotels near to the university are The Park Inn - <http://www.glasgow.parkinn.co.uk/> and The Holiday Inn - <http://www.higlasgow.com/> both within easy walking distance to the University.