

# **“Non-Linear effects in piezoelectric devices”**

Wednesday 11th October, 2006

**University of Manchester Incubator Company Ltd**

EPSRC Piezo Device Modelling Network

<http://www.paisley.ac.uk/es/piezodevice/>

and the

UK Piezoelectric Club Meeting

<http://www.piezoclub.org>

## **Agenda**

**Start Time: 10.00 am**

**End Time: 15:45 pm**

**Chairman: Dr Paul Weaver, Servocell plc.**

Tea/coffee and lunch is provided.

- 10:00 Registration Coffee and Tea  
Welcome Paul Weaver (Servocell.)
  - 10:20: Introduction to UK Piezo club and the EPSRC Piezo Device Modelling Network  
Markys Cain (NPL) and Katherine Kirk (Paisley)
  - 10:30 Non-linear effects in the design and manufacture of piezoelectric actuators for  
electromechanical devices Paul Weaver (Servocell)
  - 11:00 Ferroelectric effects on the piezoelectric, elastic and dielectric coefficients of  
electroceramics John Huber (University of Oxford)
  - 11:30 Measuring non linear piezoelectric properties using high power resonance.  
John Blackburn (NPL)
  - 12:30 Lunch
  - 13:30 Non-linear modelling of high temperature piezoelectric actuators Fiona Lowrie  
(QinetiQ)
  - 14:00 Frequency shifting of harmonics in multilayer piezoelectric structures Jean-  
Francois Saillant (Paisley)
  - 14:30 Practical Characterisation Methods for Commercial Inkjet Devices Jurgen  
Brunahl (Xaar PLC)
  - 15:00 Break
  - 15:15 Network modelling of 3-3 piezocomposite materials R.W.C. Lewisa & C.R.  
Bowen
  - 15:30 Finite element homogenisation of piezoelectric composites, Chris Wallace  
(University of Strathclyde) Paul Reynolds (Weidlinger Associates)
- 15:45 End