



Conference Call for Papers

Guidelines for Preparation of Abstracts

Topics of Interest

The following topics are of particular interest:

- Innovative measurement in support of the development of sustainable methods of energy generation. Methods for controlling energy generation from intermittent renewable sources such as wind and wave power. Energy storage and grid management.
- The measurement challenges and research involved in exploiting the major reserves of oil and gas that remain unproduced.
- Meeting and measuring the carbon reduction targets through new technologies like carbon capture and storage.
- Nuclear energy: improving measurement technology to enhance safety and control.
- Advances in measurement techniques that improve fundamental accuracy of key process measurement parameters, and create opportunities for innovation in industry.
- Methods of direct energy metering, and measuring and controlling energy usage in industry for effective management. Smart metering.
- The use of sensor-based intelligent diagnostics to enhance measurement systems, optimise process control and reduce intervention and maintenance costs.
- Novel applications of wireless technologies and networked sensors.
- Development of standards relating to the practical application of measurement technology within energy production processes, and associated carbon reduction initiatives.
- Traceability and measurement standards that underpin the practical realisation of instrument calibration in the UK. Papers that address barriers to the introduction of new energy technologies through the lack of appropriate measurement capability are particularly encouraged.
- Policy, regulation, accreditation or certification schemes reliant on measurement techniques and technologies to support their aims. A particular emphasis will be on emerging and novel measurement techniques that will provide a basis for fair trade; consumer protection; low carbon energy production; and carbon trading.

Theme Areas

Material will fit in the context of one of the three theme areas:

1. Metrology Research

Encompassing longer-term fundamental metrology research through to industrial research with a shorter time-horizon for application.

2. Applied Measurement

Aimed specifically at case-study style papers that will describe the implementation of measurement research work, with a particular emphasis on the impact and benefits.

3. UK's Metrology Infrastructure

Development and use of the measurement and metrology capability within the UK.

Format of Delivery

The possible formats are:

1. Technical Paper

These will be delivered during a 20 minute presentation slot and followed by a chaired question and answer session of up to 10 minutes.

A full written paper is required for the conference documentation, together with a powerpoint style file for presentation.

2. Case Study Presentation

These will be delivered during a 20 minute presentation slot and followed by a chaired question and answer session of up to 10 minutes.

A powerpoint style file is required for use during the presentation. This, or an amended version, will be included in the conference documentation.

3. Poster

These will be informally discussed during allocated poster sessions. A poster is required and a summary can be included in the conference documentation.

Style templates will be issued for formats 1 and 2.

Organised by key partners active in measurement in the UK

