

09:00 Registration and refreshments

09:25 Welcome from the Chair

Gary Thornton, Asset Engineering Manager, **NATIONAL GRID**

09:30 Managing the risk of failure in aging transformer fleet with asset health review and effective diagnostics

- managing the aging process and risk of transformer failure
- asset health review and effective diagnostic techniques
- fault detection and differentiating normal and abnormal assets
- identifying key performance indicators

John Lapworth, Principal Engineer, **DOBLE POWERTEST UK**

10:10 Designing new substations – changing existing substations

- identifying key performance indicators
- Reducing costs using improved technologies for asset data capture, design, and management
- The role of non-invasive 3D laser scanning
- Why create hybrid persistent asset models?
- Linking the asset model to database systems for maintenance

David G Robertson, Practice Leader, **BENTLEY SYSTEMS** & Carsten Lipinski, **IMP**, Germany

10:50 Refreshments and networking break

11:20 Effectively securing the assets of a substation

- how to ensure against the issue of cyber security
- enabling Smart monitoring systems; providing efficient data presentation to ensure effective use of resource
- providing reliable, secure access to external companies providing real time system maintenance
- protecting against vandalism and potential thefts
- providing a secure, reliable and integrated system when connecting to modern and legacy equipment

Stuart Mann, Asset Protection Engineer, **NATIONAL GRID**

12:00 Asset information – A key enabler for effective asset management

- issues and characteristics of manually sourced asset data
- the role that automatically sourced data can play in asset management
- overview of data quality approaches and sharing of asset information
- support for more effective asset management

Julian Schwarzenbach, Director, **DATA AND PROCESS ADVANTAGE LTD**

12:40 Lunch

13:40 Assessing the whole life costs of assets from first investment to end of life

- framework for the determination of whole life costs
- cost categorisation and the inclusion of asset condition
- handling uncertainty relating to asset failure and major incidents
- collaborative software tools
- some recent working examples

Gary Stevens, Managing Director, **GnoSys UK LTD** & University of Surrey

14:20 Off-shore substation implementation and management

- how to deliver the project (on-shore and off-shore)
- the view from OEM
- pre-packaged and containerised substation development and designs
- design constraints and overcoming the implementation issues
- manufacturing installations

Ian Mould, Business Manager, **AREVA T&D**

15:00 Refreshments and networking break

15:30 On-line partial discharge monitoring - the challenges and potential benefits

- what is PD and how is it detected?
- extending asset lifetime with targeted replacement
- switchgear failure and substation safety
- experiences of failure prevention in distribution and private networks

Dr Colin Smith, Technical Director, **IPEC LTD**

16:10 A generalised framework for optimising the use of academic knowledge in asset life management

- the challenge of bringing multidisciplinary teams together
- linking aging mechanisms to the working environment
- a framework for sharing information
- identification of appropriate monitoring
- an example of implementation

Simon Rowland, Professor of Electrical Materials, **UNIVERSITY OF MANCHESTER**

16:50 Q&A and close