

# International Flow Measurement Conference 2015:

## Advances and Developments in Industrial Flow Measurement

1-2 July 2015  
University of Warwick  
Coventry, UK

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### About the Conference

Advances in materials, sensors and computational power continue to create new opportunities in industrial flow measurement. This conference brings together the best of recent advances from those involved in R&D, manufacture and deployment of flow measurement devices.

The conference is also an opportunity for those from industry and the research base to make connections and exchange knowledge, within and across international application sectors.

### Topics will include:

- Advances in real-world flow measurement
- Innovations in diagnostics and smart metering
- New approaches in differential pressure measurement
- Mass flow measurement
- Advances in multiphase flow measurement
- Understanding flow through visualisation and simulation
- Novel methods for open-channel flow measurement

### Who Should Attend?

The conference will be of great value to flow-measurement end-users, practitioners, engineers, researchers and equipment manufacturers, as well as those in business investment and decision-making roles. It is a unique opportunity not only to hear about advances in flow measurement but also to make lasting, mutually beneficial connections - between business and the research base, and between different end-user sectors.

### Conference Fees

The delegate fee for this 2-day Conference is £450 plus VAT, inclusive of lunches, refreshments and delegate pack. For delegates from academic institutions, there are a limited number of sponsored places available for those booking by 30 April. Please contact us for further details. An optional Conference Dinner will be held on Wednesday 1 July at the cost of £40 + VAT.

Bookings can be made online at

[Flow Measurement Conference](#)

Payment is required by credit card only.

For any enquiries please contact the Events Team on + 44 (0) 1355 272858 or [events@tuvnel.com](mailto:events@tuvnel.com)

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### Members of the Technical Committee

- Alun Thomas (Chairman), NEL
- Prof Roger Baker, University of Cambridge
- Prof Jerker Delsing, Luleå University of Technology
- Prof Steve Dixon, University of Warwick
- Oliver Grievson, Anglian Water
- Prof Manus Henry, University of Oxford
- Alan Johnson, Emerson Process Management
- Prof Mahmoud Meribout, The Petroleum Institute
- Michael Reader-Harris, NEL
- Prof Mi Wang, University of Leeds
- Prof Hoi Yeung, Cranfield University

### Venue

The conference will take place in Scarman House – Warwick Conferences, University of Warwick Campus, Gibbet Hill Road, Coventry, CV4 7AL.

[Click here for further details](#)

### About the Flow Measurement Institute

The Flow Measurement Institute is concerned with the future of flow measurement science and infrastructure, to meet the emergent needs and challenges of industry. It comprises representatives from industry, academia and regulatory bodies who are collaborating to deliver a series of strategic and tactical objectives. The Flow Measurement Institute is driven by four project groups: leadership, research & development, skills and infrastructure.

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## Technical Programme

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### **Wednesday 1 July**

**0820 – 0850**      **REGISTRATION AND COFFEE**

#### **SESSION 1**      **FLOW MEASUREMENT: STANDARDS, REGULATIONS, FUTURES**

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**0850 – 0855**      **Welcome Address**  
Brian Millington, NEL – UK

**0855 – 0900**      **Chairman Introduction**  
Alun Thomas, NEL – UK

**0900 – 0930**      **ISO/TC 30 Standards**  
Michael Reader-Harris, NEL – UK

**0930 – 1000**      **Brazil's Regulatory Regime: Management of the Mismeasurements Events in Oil and Natural Gas Measurement Systems**  
Joana França de Andrade, Leandro de Mello Silva, Marcus Vinícius Quintanilha Werner and Luiz Henrique de Oliveira Bispo, ANP (National Agency of Petroleum, Natural Gas and Biofuels) – Brazil

**1000 – 1030**      **The Future of Flow Measurement Within the Water Sector**  
David Tyler, Southern Water – UK

**1030 – 1100**      **An Integrated Flow and Pressure Metering Solution for Remote Locations using the Water Industry Telemetry Standard Protocol (WITS)**  
Ray Keech, ABB Limited – UK

**1100 – 1130**      COFFEE

#### **SESSION 2**      **UNDERSTANDING FLOW: THE QUEST CONTINUES**

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**1130 – 1200**      **Improving the Accuracy of Oilfield Multiphase Flowmeters by Understanding Flow Structure**  
Andrew Hunt, Coventry University – UK  
Richard Foster-Turner, Atout Process Ltd – UK

**1200 – 1230**      **An ERT Flow Measurement Approach for Inclined Solid-Liquid Flow in Pipelines**  
Yousef Faraj, Jiri Polansky and Mi Wang, University of Leeds – UK

**1230 – 1300**      **Numerical Simulation of Unsteady Turbulent Pipe Flow**  
Zhixin Wang and Yongmann M. Chung, University of Warwick – UK

**1300 – 1400**      LUNCH

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### **Wednesday 1 July (continued)**

#### **SESSION 3      POSTER SESSIONS**

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**1330 – 1530**      **Details can be found on our website**

#### **SESSION 4      INDUSTRIAL APPLICATIONS: GETTING SMARTER**

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**1530 – 1600**      **The Effect of the Control Valve Noise on the Ultrasonic Gas Flow Meters**

Ahmad Mahdy El-Sayed, Badr Petroleum Company – Egypt

**1600 – 1630**      **Are Ultrasonic Gas Flow Meters a Viable Option for Wet Gas Applications?**

Martin Schleich and Jacob Freeke, Emerson Process Management – The Netherlands

**1630 – 1700**      **The Real World: Entrained Gas in Mass Flow Meters**

Colin Cheeseman and Tao Wang, KROHNE Ltd – UK

Johannes W Kunze and Ralf Storm, KROHNE Messtechnik GmbH – Germany

**1700 – 1710**      **Chairman's Summary**

### **Thursday 2 July**

**0815 – 0845**      **COFFEE**

**0845 – 0850**      **Chairman Introduction**

Alun Thomas, NEL – UK

#### **SESSION 5      DIFFERENTIAL PRESSURE METERS: PERFORMANCE & EVOLUTION**

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**0850 – 0920**      **Orifice Plates: Do They Really Deliver What They Promise?**

Michael Reader-Harris, NEL – UK

**0920 – 0950**      **Comparative Study of The Performance of Differential Pressure Flow Meters**

Diego Nelson Moncada Benavides, Jose de Jesus Casillas Maldonado and Melina Sabah Génico, CIATEQ AC – Mexico

**0950 – 1020**      **Differential Pressure Meter Diagnostics – Independent Evaluation on Orifice Meter with Liquid Flow**

Jennifer Rabone, Swinton Technology – UK

**1020 – 1040**      **COFFEE**

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### **Thursday 2 July (continued)**

#### **SESSION 6      ULTRASONICS IN THE REAL WORLD**

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- 1040 – 1110      Considerations on Correction of Flow Readings for a Single Path Ultrasonic Meter**  
Eric Lima and Leonardo Pereira Bastos, 2Solve  
Marcio Coelho de Mattos and Rogério Ramos, Federal University of Espirito Santo – Brazil
- 1110 – 1140      Ultrasonic Flow Meters and Flow Conditioning**  
Gregor Brown and Bobbie Griffith, Cameron – UK
- 1140 – 1210      A New Calibration Method for Ultrasonic Clamp-on Flowmeters**  
Bernhard Funck and Mathias Panicke, Flexim GmbH – Germany  
Erkan Kublay and Rainer Engel, Physikalisch-Technische Bundesanstalt Braunschweig – Germany
- 1210 – 1240      Use of an Ultrasonic Flow Meter on Mixed-Phase Flow**  
David Mills, Oil & Gas Measurement Limited – UK
- 1240 – 1330      LUNCH

#### **SESSION 7      MODERN MULTIPHASE FLOW MEASUREMENT: DELIVERING OPERATIONAL BENEFIT**

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- 1330 – 1400      Optimizing Gas Storage Fields Operation through High Accuracy Multiphase Flow Metering**  
Nunzio Bonavita and Gregorio Ciarlo me, ABB S.p.A. – Italy  
Paolo Ciandri, TEA Sistemi S.p.A. – Italy
- 1400 – 1430      Effect of Hydrate Inhibitors on the Accuracy of Multiphase Flow Meters**  
Prafull Sharma and Hoi Yeung, Cranfield University – UK
- 1430 – 1500      Field Experience of Well Testing Using a Coriolis-based Three-Phase Flow Meter**  
Manus Henry, Michael Tombs and Feibiao Zhou, Invensys University Technology Centre for Advanced Instrumentation – UK
- 1500 – 1520      COFFEE

#### **SESSION 8      OPEN CHANNEL MEASUREMENT: DEVELOPMENTS, CHALLENGES, REGULATION**

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- 1520 – 1550      Flow Measurement in Sewers: Combination of Levels Measurement and Backwater Curves in Experimental Field Application**  
Laurent Solliec, NIVUS GmbH – Germany  
José Vazquez and Matthieu Dufresne, I-Cube Laboratory – France  
Jonathan Wertel, 3 Eau – France
- 1550 – 1620      Determining the Uncertainty of Non-Contact Area Velocity Measurement Devices**  
Andy Godley and Tom Doyle, WRc plc – UK
- 1620 – 1650      Experiences of Regulated Wastewater Flow Measurement in a UK Water Company**  
Oliver Grievson, Anglian Water – UK
- 1650 – 1700      Chairman's Summary and Closing Remarks**

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To book a place on this conference please contact:

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