Optimising automation and control systems for more efficient and flexible operations

Conference: Monday 18 – Tuesday 19 March 2013
Cyber Security Focus Day: Wednesday 20 March 2013
America Square Conference Centre, London, UK

At Automation and Control for Energy you will find out about:

- **Total E&P’s** approach to protecting offshore assets against cyber attacks
- **RWE npower’s** control system development methodology using the **IEC 61131** programming environment
- How **Total’s Lindsey Oil Refinery** is improving energy efficiency downstream using **Advanced Process Control**
- How **BP’s dynamic simulation programme** is improving operations and influencing actual operator behaviour

**Keynote:**

Mark Nixon  
Director of Research  
Emerson Process Management  
Winner of the Raymond D. Molloy Award 2012

This year’s speaker faculty includes:

Iain Holland  
EC&I Engineer  
RWE npower

Ewen MacDonald  
Lead Systems & Instrument Engineer  
Total E&P

Annemarie Zielstra  
Chair, European SCADA and Control Systems Information Exchange (EuroSCSIE)  
and Coordinator European Reference Network of Critical Infrastructure Protection (ERNCIP)

Andy Till  
Project Manager, Automation  
BP

Martin Belshaw  
Chairman, North Scotland Section  
Institute of Measurement and Control

Andrew Lichnowski  
Senior Engineer  
EEMUA

James Puhlfuers-Bovell  
Control and Automation Engineer  
BP

Laurent Ferrari  
APC Specialist  
Total Lindsey Oil Refinery

John Shaw  
CIO & Head of Information Services  
Mainstream Renewable Power

Separately bookable

Cyber Security Focus Day: Wednesday 20 March 2013

Prevention, response and recovery from cyber-attacks

Delegates will discuss:

✔ Cyber security standards
✔ Technologies to reduce cyber-attacks and improve safeguards for systems
✔ Case studies and recent examples of dealing with malware and viruses
✔ Risk analysis and cyber security awareness

“The superb conference, addressing some hot topics”

J M, Laborelec GDF Suez

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Register by 11 January 2013 and save up to £300

50% Discount for Power Utilities*
Europe’s leading energy industry conference for the EC&I community

ACE 2013 will showcase how energy companies are improving safety, quality and productivity through their control and automation strategies.

This forum will provide you with the latest information on:

- **Cyber security**: safeguarding systems against new viruses
- **Alarm management**: the EEMUA 191 reform and strategies to streamline your alarm systems
- **Functional safety**: making sure you are compliant with standards such as IEC 61508
- **Ageing systems**: lessons learned from recent upgrades and new hybrid solutions for migrating systems

Plus, don’t miss out on the social activities:

- **Drinks reception**: Network and reflect on the day’s proceedings over a glass of wine with fellow attendees and speakers
- **Speed networking**: Introduce yourself and exchange business cards with other attendees in this fast paced networking session
- **Quick fire showcase**: Take the opportunity to pitch your product or service to our judges for a chance to win a bottle of champagne
- **Hot topic discussion forum**: Join like-minded professionals for more in depth discussion of automation and control challenges

Who attends the ACE conference?

**BY COUNTRY**

- United Kingdom
- Netherlands
- Belgium
- USA
- Australia
- Romania
- Denmark
- Hungary
- Ireland

**BY COMPANY**

- Oil and Gas Operator
- Power Company
- Technology Provider/Manufacturer
- Consultant/Academic
- Associations/Institutions

SPONSORSHIP & EXHIBITION OPPORTUNITIES

Why not build greater awareness of your brand within the Oil, Gas and Power markets and promote new products or services at the Automation and Control for Energy Conference?

For more information please contact Lauren Wilcox on +44 (0)20 7017 7674 or lauren.wilcox@informa.com

Registration Hotline: +44 (0)20 7017 7206 Email: charlotte.brown@informa.com
For latest programme or to register visit: www.ibcenergy.com/FKA2333TT
Conference, day one: Monday 18 March 2013

8.30 Registration, tea and coffee

9.00 Chair’s welcome address
Martin Belshaw, Chairman, North Scotland Section, Institute of Measurement and Control

9.15 Trends which will shape the future of automation and control
• What technologies will organisations be adopting in the next 10 years?
• How will the energy industry be affected?
Mark Nixon, Director of Research, Emerson Process Management
Winner of the Raymond D. Malloy Award 2012

INTEGRATED BUSINESS APPROACHES TO REDUCING THE THREAT OF CYBER ATTACK

9.45 PANEL DISCUSSION
Assessing the need for better collaborative decision support to improve business resilience
• How associations should take care of cyber resilience
• Reducing the vulnerability of large scale organisations
• Cyber security health checks
• Standards and initiatives
• Vendor requirements: what support does the end user expect?
Panellists include:
Annemarie Zielstra, Chair, European SCADA and Control Systems Information Exchange (EuroSCSIE) and Coordinator, European Reference Network of Critical Infrastructure Protection (ERNCIP)
John Shaw, CIO and Head of Information Services, Mainstream Renewable Power

11.00 Morning tea and speed networking session

Speed networking:
Sign up to the speed networking session taking place during morning tea. It’s a great way to meet new contacts and exchange ideas in a fast paced, fun environment. Remember to bring plenty of business cards!

11.40 System protection strategies
• Exploring network security challenges
• Methods to monitor and protect systems
• Managing Anti-Virus (AV) applications on automation systems

12.20 Implementing a pragmatic approach to cyber security for industrial systems
Ewen MacDonald, Lead Systems & Instrument Engineer, Total E&P

13.00 Lunch

IMPLEMENTING SOLUTIONS TO MANAGE OBSOLETE EQUIPMENT

14.00 Alternative solutions to upgrading to a new system
• Dealing with equipment obsolescence
• Exploring hybrid solutions for extending the life of ageing systems
• Exploring compatibility issues with old and new technologies

14.45 Upgrading SCADA/PLC systems
• Justifying an upgrade to upper management
• Replacement challenges
• Exploring the costs of the project
Senior representative, Cougar Automation

15.30 Afternoon tea and networking break

HOT TOPIC DISCUSSION FORUM

16.00 An opportunity for more in-depth discussion of automation and control issues. Choose to attend one of the following:

Migrating and integrating systems: pitfalls and solutions

Next generation standards explained: OPC Unified Architecture (UA) and Field Device Integration (FDI) standard

HMI design: improving data access and display

Human factors: examining operator behaviour and reducing operational risk
John Wilkinson, Principal Human Factors Consultant, The Keil Centre

16.40 Discussion forum feedback

16.50 Chair’s concluding remarks
Martin Belshaw, Chairman, North Scotland Section, Institute of Measurement and Control

17.00 Networking drinks reception:
Mingle with fellow attendees and speakers and discuss the day’s proceedings over a glass of wine.
Conference, day two: Tuesday 19 March 2013

9.30 Chair’s opening address
Andy Till, Project Manager, Automation, BP

ALARM MANAGEMENT: STREAMLINING ALARM SYSTEMS

9.40 EEMUA 191 revised guidelines
Andrew will explain the core principles of EEMUA 191 and discuss the latest major changes to the guidelines.
Andrew Lichnowski, Senior Engineer, EEMUA

10.20 Morning tea and networking break

10.50 Managing alarm flooding and suppression
• Dealing with nuisance alarms
• Strategies for alarm reduction
• Rationalising systems

11.30 New alarm rationalisation from operating envelopes
In this presentation Robin will present a graphical method for alarm rationalisation that requires no mathematical skills to use, predicts alarm system performance during the review process and saves many man-days compared to existing methods while at the same time giving better alarms than those methods.
Robin Brooks, Managing Director, PPCL

12.15 Lunch

GAME CHANGING TECHNOLOGIES AND APPLICATIONS

13.15 How control can improve energy efficiency: from simple solutions to Advanced Process Control solutions
Laurent Ferrari, APC Specialist, Total Lindsey Oil Refinery

13.45 BP operate phase integration of dynamic simulation
BP has re-appraised the integration of Dynamic Simulation into the Operate Phase Philosophy of BP operational facilities. The presentation will define why Dynamic Simulation is used during the Operations Phase, how this deployment is best suited to a central support and training system and discuss the revised philosophy including ideologies, such as the Competency Cycle, from external consultancies. It will also address the technical reasons and qualitative return on investment, for a centralised philosophy, highlighting the

Dynamic Simulation Life Cycle. An analysis of the Operations viewpoint will show how desired operator behaviour is turned into actual operator behaviour. This will include at least, the initial Operator assessment, Operator conditioning and the delivery of a motivational career progression in a defined knowledge management cycle.
James Puhlfuerrer-Bovell, Control and Automation Engineer, BP

14.15 Afternoon tea and networking break

14.35 Simulation and implementation using the IEC 61131 programming environment
Iain will discuss an innovative control system development methodology using the IEC 61131 programming environment as the development platform. By adopting this methodology, a systems approach is achieved whereby all aspects of control system design and simulation testing are considered in a single development environment (IEC 61131). Rigorous offline simulation testing can be fully undertaken prior to implementation and commissioning on a live plant, thus minimising any risk of control system mal-function.
Iain Holland, C&I Engineer, RWE npower

COMPLYING WITH SAFETY STANDARDS AND ACHIEVING FUNCTIONAL SAFETY

15.10 Upgrading safety systems and complying to standards such as IEC 61508
Ron will focus on the essential steps and decisions to be taken including legal, cost benefit analysis and gap analysis to IEC 61508 and IEC 61511.
Ron Bell, Director, Engineering Safety Consultants

15.45 Chair’s closing remarks
Andy Till, Project Manager, Automation, BP

16.00 Close of conference

Future IBC Energy Events

Powering Oil and Gas Fields Seminar
29 – 30 January 2013, London
Condition Monitoring and Analysis Seminar
19 – 20 February 2013, London
FPSO Milan Training Course
12 – 14 March 2013, Milan
Centralised Control Rooms Seminar
22 – 23 May 2013, London

For more information visit www.ibcenergy.com
Cyber Security Focus Day: Wednesday 20 March 2013
Prevention, response and recovery from cyber-attacks

9.00  Registration, tea and coffee

9.30  Chair’s welcome

9.40  Cyber security quiz: Are you fully aware of the risks?  
      Karl Williams, Principal Consultant, QinetiQ

10.10 Risk analysis: assessing which systems are at risk and protecting mission critical systems  
      • Strategies to examine which systems are vulnerable  
      • Ensuring that mission critical systems are well protected

10.50 Cyber security awareness and common threats: how do the incidents occur?  
      • Making sure external consultants and vendors are compliant  
      • Reducing the risk of internal and external cyber attacks  
      Chris Sandford, Director Global Security Services, Wurldtech Security Technologies

11.30  Morning tea and networking break

12.00 Discussion duets  
      Karl Williams, Principal Consultant, QinetiQ
      Delegates will be split into pairs to brainstorm ideas on the challenges facing the energy industry regarding cyber security and the possible solutions which could be employed to alleviate the risks. Delegates will then discuss their findings with the rest of the audience.

12.40 Cyber security standards  
      • What standards are currently in place?  
      • Are current standards adequate?  
      • What further measures can be taken to protect organisations from cyber-attacks?  
      Karl Williams, Principal Consultant, QinetiQ

13.15  Lunch

14.15 Safeguarding industrial control systems  
      • Threat spectrum "magic-quadrant" style - sophistication vs. automation  
      • Characteristics of groups of actors in the threat spectrum - highly automated vs. manual low-and-slow  
      • Examining new technologies: App control, SIEM, UGW, device firewalls and which threats they protect against  
      • Evolution of industrial security standards  
      Colin Blou, VP Sales NA and EU, Waterfall Security Solutions

14.50 Responding to and recovering from cyber attacks  
      • Best practice response and recovery  
      • Time is money: reducing the amount of downtime of an organisation  
      Chris Sandford, Director Global Security Services, Wurldtech Security Technologies

15.20  Afternoon tea and networking break

15.40 Case studies and recent examples of dealing with malware and viruses such as Stuxnet  
      • An overview of the latest cases of cyber-attacks  
      • Were these preventable?  
      • Lessons learned: What could have been done to reduce the effect of the attack?  
      Chris Sandford, Director Global Security Services, Wurldtech Security Technologies

16.15  Chair’s closing remarks
All discounts can only be claimed at the time of registration and multi-package discounts cannot be combined with other discounts that may be available (apart from early booking discount that are available to everybody).

Further discounts are subject to approval. We are happy to accept a replacement delegate for the whole event; however delegate passes cannot be split or shared between delegates under any circumstances. Please note the event fee does not include travel or hotel accommodation. The VAT rate is subject to change and may differ from the advertised rate. The amount you are charged will be determined when your invoice is raised.

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**CHOOSE YOUR PACKAGE:**

**DATES**

**REGISTER BY 11 January 2013**

**REGISTER BY 15 February 2013**

**REGISTER AFTER 15 February 2013**

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- £1698 (+20% VAT) = £2077.60 SAVE £380
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