Honeywell Users’ Group
Europe, Middle East & Africa
Conference 2012
1.0 General Information
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Welcome to the 24th Honeywell EMEA Users’ Group 2012

Dear Attendees,

On behalf of the EMEA 2012 Steering Committee, it is my pleasure to warmly welcome you to Istanbul and the 24th annual Honeywell Users' Group Conference.

Our theme this year is Sustain.Ability. We have diligently crafted an atmosphere where you will discover new solutions and technology to improve your processes and performance. Whether through observing demonstrations, reading papers, attending presentations or talking with your colleagues, we will help you move your process to the next level.

We are pleased to offer you an electronic agenda and you are probably reading my letter from your laptop, before the EMEA HUG has even started. This PDF contains all the information you need to get the most out of the Users’ Group. You will find the names and locations of all the presentations, demo room hours, general session information and details about the social program. Become familiar with the presenters by reading their bios and looking at their photos. Be sure to take advantage of everything there is on offer.

On site you will be given a small printed agenda for ease of use. To assist you we will also have touch-screens at the Hilton Convention Centre as well as in the Hilton Istanbul Hotel.

We look forward to your active participation and at all times feel free to start discussions with my fellow Users’ Group Steering Committee members, as well as with Honeywell employees present. There is so much to talk about: informative solution demonstrations of the latest technologies such as virtualization, universal I/O, and integrated safety and security, as well as comprehensive lifecycle support services. It’s all about Sustain.Ability.

Finally, I welcome your comments and suggestions on the Users’ Group, and ask you to complete the post-conference e-survey. We review every input to ensure that the Honeywell Users’ Group continues to provide value to attendees.

Enjoy the conference!

Roberto Simeone
Chairman
Users’ Group EMEA Steering Committee
A very warm welcome to Istanbul, which happens to be my home town!

We are delighted to have you here and we are looking at a fantastic agenda. With so many highlights I sincerely hope you brought along at least two more colleagues so you all can share the latest technology for you and your company’s best interest.

As we all know we come together to share experiences and information, with the common goal of promoting growth for our industries and professions. Honeywell Users Group is built around the promise of communication and progress. While we gather to present what we’ve learned through our experiences, Honeywell experts and colleagues are available to help you explore solutions for your critical business and operational challenges.

The importance of sustainable performance is reflected in our 2012 theme, Sustain.Ability. We know you have competing priorities—technology, market and regulatory demands, performance and available resources. Honeywell innovation and expertise helps with these concerns so you can achieve optimal sustainable process and business performance.

We have developed a holistic approach for the entire lifecycle of an industrial plant—beginning with design and build to operate and manage. Over the years, as our industries worked to keep pace with demands made by advancements in technology, growth in global markets, increasing regulation, process performance and resource availability, Honeywell remained committed to helping our customers meet and conquer those demands.

This year’s presentations, keynotes and demo room illustrate Honeywell’s wide range of solutions and services that address each component impacting sustainability.

I look forward to meeting as many of you as possible during the week. Please feel free to introduce yourselves to me and to any of the Honeywell experts in attendance.

We all look forward to helping you find opportunities to drive both profits and growth in today’s competitive environment.

Sincerely,

Orhan Genis
Vice President, EMEA Sales
Honeywell Process Solutions
Social Program

**Tuesday, 13 November**
**Free Evening and Group Dinners**
Feel free to join your country dinners, contact your Honeywell contact person
Dress code is business casual.

**Wednesday, 14 November**
**Conference Dinner**
The conference dinner is held at the Conrad Hotel.
After the conference dinner there will some light entertainment.
Dress code is cocktail/business casual.

**Guest and Spouse Program**

**Tuesday, 13 November**
**Welcome Coffee**
**10.00 Hilton Istanbul, Lobby Bar**
The welcome tea and coffee for spouses and/or partners of conference delegates will be held at the Lobby Bar of the Hilton Istanbul Hotel and will start at 10.00.
A local tour guide will provide details of local attractions and places of interest.
This year the social program for guests and spouses has been left to the discretion of each individual attendee.
For Your Business and Social Media Needs

Information Desk and Message Centre
Honeywell staff members are available to assist you with your business needs and enquiries throughout the conference. These staff members are centrally located at the Honeywell Users’ Group Information Desk close to Hilton Istanbul Business Centre. There will also be a Message Centre where you can collect and leave messages.

Cyber Café – sponsored by DELL
The Cyber Café allows conference delegates to stay connected while at Users’ Group. It is located in the middle of the sponsor area at the Hilton Convention Centre. It will be open from Tuesday morning to Thursday afternoon for attendees to use.

Cyber Café – sponsored by HP
The second Cyber Café also allows conference delegates to stay connected while at Users’ Group. It is located nearby the conference Ballrooms of the Hilton Istanbul Hotel. It will be open from Tuesday morning to Thursday afternoon for attendees to use.

Closing Session Q & A
If you wish to submit questions for our experts to address on stage on Thursday afternoon, either email your question to usersgroup@honeywell.com before 09:00 on Thursday, 15 November or submit your question(s) at one of the Cyber Cafes.

Users’ Group Survey
The Survey will be emailed to you one week after the Users’ Group is held.

Presentations
PDF’s of all EMEA HUG 2012 presentations will be emailed to you through a web link approximately three weeks after the event.

Honeywell Users Group is on Twitter and LinkedIn
Follow HUG 2012 on Twitter at @HWUsers, and don’t forget to use the #HUG12 hashtag for your Tweets.

Stay up to date on the latest HUG news at www.honeywellusersgroup.com/live and by joining our LinkedIn group “Honeywell Users Group for Process Solutions.”

Follow Honeywell Users Group Online:
Sustain.Ability.

2.0 Agenda, Session Descriptions and Speaker Information
Sustain Production

Current oil reserves could yield an additional 1.5 billion barrels of oil every year if Honeywell systems are used.
Monday, November 12 Schedule of Events

14.00 – 20.00  Conference Registration Open  Hilton Convention Centre Entrance

14.30 – 17.30  Pre-HUG Optional Honeywell Workshops  Hilton Istanbul Hotel

1. Experion Slick Tricks, Peter Overgaauw, Honeywell  Hilton Hotel Ball Room I
2. The Challenge of Bridging the IT & Process Control Domains to Improve Organizational Performance, Phil Millette, Honeywell  Hilton Hotel Ball Room II

Workshops information:
Experion Slick Tricks, Peter Overgaauw, Honeywell  Hilton Hotel Ball Room I
Slick Tricks are ways to get more out of your Experion system. You will learn interesting applications of the Experion HMI, Control Execution Environment and SCADA communication capabilities. As always, we will focus on features that are built into every Experion system, which can be used with little or no scripting. You can easily implement these applications on your existing Experion system.

The Challenge of Bridging the IT & Process Control Domains to Improve Organizational Performance, Phil Millette, Honeywell  Hilton Hotel Ball Room II
The process industry has for many years seen a back-and-forth movement – in many cases not consistent, even within the same company’s operations – on how to structure the organization for best performance and best results. The challenges come from technology history, from different skill sets of employees, from evolving IT and emerging trends, as well as from acquired or accepted ‘natural’ boundaries of the roles of each contributing functional group in the plant. The widespread use of near-real time information by other plant user communities such as reliability, supply management etc., makes this now even more challenging, and the user communities are even broader and more diverse. The cooperation and conflicts that appear are now driven by emerging technology trends. How can you cope? And how can you go beyond just coping, towards an organization that thrives? We outline some of the key points of the plant organization that need attention to drive a plant towards better overall team performance and really benefit from the adoption of technology. This is a combination of presentation and workshop.
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<td>08.00 – 18.00</td>
<td>Conference Registration Open</td>
<td>Hilton Convention Centre Entrance</td>
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<td>09.00 – 11.00</td>
<td><strong>General Sessions</strong></td>
<td>Hilton Convention Centre Upper Floor</td>
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<td></td>
<td><strong>Welcome</strong>, Roberto Simeone, Saras, EMEA HUG Chairman and Barbera de Baar, Conference Announcements including, Early Birds Prize Draw: giving away iPads!</td>
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<td><strong>Honeywell Welcome and Industry Perspective</strong>, Darius Adamczyk, President, Honeywell Process Solutions</td>
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<td><strong>User Input Subcommittee Update, Update on the Customer Advisory Boards</strong>, Lourens du Plessis, SASOL</td>
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<td><strong>Sustaining Customer Partnerships</strong>, Orhan Genis, VP EMEA Sales, Honeywell Process Solutions, including Student Winner Award Ceremony</td>
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<td>11.00 – 11.30</td>
<td><strong>Announcement</strong>, Jason Urso, VP Technology, Honeywell Process Solutions</td>
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<td>11.00 – 11.30</td>
<td>Coffee Break Sponsored by BARCO</td>
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<td>11.30 – 12.30</td>
<td><strong>General Session Continued</strong></td>
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<td><strong>Honeywell Technology Overview</strong>, Jean-Marie Alliet, Honeywell</td>
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<td>12.30 – 19.30</td>
<td>Honeywell Demo Room Open</td>
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<td>Entrance via the Sponsor Area</td>
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<td>Feel Free to Visit our Sponsors</td>
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<td>Coffee Available in the Sponsors Area</td>
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<td>12.30</td>
<td><strong>First Virtualis 3D Demonstration</strong></td>
<td>Jupiter</td>
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<td>Please register your attendance before joining the 3D demonstration at the Jupiter room (limited seats). You can register at the Honeywell Registration and Information Desk. The 3D demonstration starts in parallel with other presentations or sessions. If you wish to experience the demo at another time, you can make alternative meeting arrangements at the Honeywell Registration and Information Desk.</td>
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<td>12.30 – 13.30</td>
<td>Lunch Sponsored by Honeywell Analytics</td>
<td>Hilton Convention Centre Lower Floor</td>
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<td>13.30 – 14.15</td>
<td><strong>Honeywell Technology Sessions</strong></td>
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<td><strong>Experion Overview and New Solutions,</strong></td>
<td>Upper Floor</td>
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<td>Ignace Verhamme, Honeywell</td>
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<td><strong>Improved Reliability, Safety and Compliance with Management of Change,</strong></td>
<td>Hilton Hotel Ball Room I</td>
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<td>John Schofield, Honeywell</td>
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<td><strong>Connect People, Process and Technology for Intelligent Operations (Intuition),</strong></td>
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<td>Michele Loseto, Honeywell</td>
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<td><strong>Control Performance Management in Large-Scale Environments,</strong></td>
<td>Mercury</td>
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<td>Stefan Willenbrecht, Honeywell</td>
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<td><strong>How Universal I/O Can Help Save Design Cost and Project Execution Time,</strong></td>
<td>Saturn</td>
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<td>Adriano Canale, Honeywell</td>
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<td>14.15 – 14.30</td>
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<td>14.30 – 15.30</td>
<td><strong>General Session</strong></td>
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<td><strong>Panel Session:</strong> Approaching Cyber Security as a Program, Not Just the Deployment of Technology.</td>
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<td>Moderator: Graeme Bell Technews (South Africa)</td>
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<td>Panel members:</td>
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<td>Dimitris Moutzouris-Lygeros, Motor Oil Hellas, Romano Karlović, INA Rijeka Oil Refinery,</td>
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<td>Mohamed Amine Kaddour Brahim, Sonatrach, Karl Huthmacher, Shell, Rick Kaun, Honeywell</td>
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<td>15.30 – 16.00</td>
<td><strong>Coffee Break Sponsored by Phoenix Contact</strong></td>
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<td>16.00 – 16.45</td>
<td><strong>Honeywell Technology Sessions</strong></td>
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<td><strong>Universal Channel Technology:</strong> Enables Optimal Flexibility and Efficiency for Process I/O,**</td>
<td>Upper Floor</td>
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<td>Tony Alexander, Honeywell</td>
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<td><strong>Integrated Automation Assessment Solutions (IAA),</strong></td>
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<td>Andy Coward, Honeywell</td>
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<td><strong>A Guide to Effective Alarm Management,</strong></td>
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<td>Tyron Vardy, Honeywell</td>
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<td><strong>Terminal Automation Solutions,</strong></td>
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<td><strong>How to Increase Engineering Efficiency by Virtualized System Engineering,</strong></td>
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<td>Paul Hodge, Honeywell</td>
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<td><strong>SmartLine Pressure Transmitters,</strong></td>
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<td>Dominique Choquet, Honeywell</td>
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<td>16.45 – 17.00</td>
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17.00 – 17.45

**Honeywell Technology Sessions**

**Advantages of a plant-wide Wireless Experion Integration,** Ignace Verhamme, Honeywell
- Hilton Convention Centre
- Upper Floor

**UIS Enhancements,**
Ananthapadmanabha Krishnamurthy, Honeywell
- Hilton Hotel Ball Room I

**Better Information Management with Historian,**
Arjen van den Broecke, Honeywell
- Hilton Hotel Ball Room II

**SCADA Solutions,**
Wijay Wishwanath Godbole, Honeywell
- Mercury

**Operational Excellence and Personal Safety on Construction Sites,**
Erwig De Hertog, Honeywell
- Saturn

18.15 – 19.15

**Drinks at the Honeywell Demo Room**
- Hilton Convention Centre
- Lower Floor

Meet Your Channel Partner or Honeywell Account Manager for the new SmartLine Pressure Transmitter and our Complete Portfolio of Field Products

19.30 – 23.00

**Country Dinners**
Honeywell Technology Sessions

13.30 – 14.15

Hilton Convention Centre Upper Floor

**Experion Overview and New Solutions**, Ignace Verhamme, Honeywell

Honeywell’s Experion PKS R410 now incorporates a number of new features and functions designed to help the user meet all the demands encountered when operating a sustainable system. This presentation discusses these improvements—from providing better visibility of real-time data and improving asset availability to embrace the newest technologies for efficient I/O design—which are all provided at the lowest total cost of ownership. The session provides an overview of the new solutions delivered in Experion PKS R410 that enables you to achieve a sustainable system. This presentation will be repeated later today.

Hilton Hotel Ball Room I

**Improved Reliability, Safety, and Compliance with Management of Change**, John Schofield, Honeywell

Management of Change (MOC) helps lower project costs. Honeywell’s MOC and DOC4000 tools gather information from a variety of site databases and systems. They add easy-to-understand, graphic representation of information to clearly show connections, how problems in one area can cause losses (and downtime) in another, and how to prevent those losses. This session illustrates how customers are using MOC and DOC4000 to cut project costs up to 15% at a cost nearly half that of manual methods. The session also shows how these tools and methods can be applied to computers and networks to prevent losses from viruses, malware, and infrastructure threats.

Hilton Hotel Ball Room II

**Connect People, Process and Technology for Intelligent Operations (Intuition)**, Michele Loseto, Honeywell

Technology, better processes, and connecting people can help transform your business and achieve intelligent operations. At this session, you can learn more about an exciting new offering from HPS, Intuition Executive. Intuition Executive is a new way to look for problems and opportunities, make better decisions, and help you work together in ways you previously couldn’t. If you have asked yourself, “What if I could make decisions to run my operations better, work together in new ways, see opportunities sooner, and operate with the confidence of seeing the right information when it can make a difference?” then this session is for you.

Mercury

**Control Performance Management in Large-Scale Environments**, Stefan Willenbrecht, Honeywell

Control Performance Monitor (CPM) has been proven to be an effective solution for monitoring and optimizing control loops and advanced control, integrating the information from any DCS vendor into a concise view. The powerful KPI displays help customers to transform the environment in which CPM has been operating in small-scale to a global enterprise application. This may bring a new challenge both to the software and the IT. The presentation shows the value of the solution to users and also what to expect during this transformation based on a real project.
13.30 – 14.15
Saturn
How Universal I/O can help save Design Cost and Project Execution Time,
Adriano Canale, Honeywell
This presentation will discuss how Honeywell’s Universal Channel Technology (UCT), introduced with Experion Orion in June this year, can help contractors solve the current market requirements. These are increasing project complexity, tight and compressed project schedules and all this under significant budget constraints.” The Universal I/O for Process and Safety control applications is truly a game changer that greatly reduces overall project cost. This can be accomplished through its flexibility to still allow changes, late in the project cycle, with almost no impact to the project schedule.

14.30 – 15.30
Hilton Convention Centre Upper Floor
Panel Session: Approaching Cyber Security as a Program, Not Just the Deployment of Technology.
Panel Session Moderator, Graeme Bell Technews
Security is more than just protecting from outside hackers. Security is about the safe, reliable, operation of your facility. Join our expert panel of owners, operators, and security experts to discuss how security is evolving into a program and not just the application of technology.

Success in security and the reliable operation of industrial automation facilities does not lie within a single technology or service, but within overall program management. Today’s available tools (from antivirus to intrusion detection) are wholly dependent upon constant maintenance of the applications/tools in order to gain value from it. Furthermore, an organization’s ability to leverage these tools and the data they provide is a key contributor to the overall success of any security program.

Panel members:
Dimitris Moutzouris-Lygeros, Motor Oil Hellas,
Romano Karlović, INA Rijeka Oil Refinery,
Mohamed Amine Kaddour Brahim, Sonatrach,
Karl Huthmacher, Shell,
Rick Kaun, Honeywell

16.00 – 16.45
Hilton Convention Centre Upper Floor
Universal Channel Technology: Enables Optimal Flexibility and Efficiency for Process I/O,
Tony Alexander, Honeywell
Honeywell has introduced Universal Process I/O, which improves project performance by simplifying the process control system infrastructure. This presentation describes how the innovative I/O solution, leveraging universal channel technology, provides enhanced flexibility in the design and implementation of control systems, while reducing system footprint, wiring, spares and delays due to late changes in an easy and cost-effective manner.
Integrated Automation Assessments Solutions, (IAA)

Andy Coward, Honeywell

Integrated Automation Assessments are a new offering that enable customers to identify issues that could impact their safety, profitability and operational integrity. Based around a deep study of the systems, processes, hardware and performance, this audit will provide feedback on the areas that may affect operational uptime, as well as areas that could lead to improved overall business value achievement.

Honeywell has developed a comprehensive non-invasive audit process that enables the architecture, system performance, hardware performance, configuration state and security/antivirus verification to be benchmarked and reported against “pacesetter” performance. Additionally, this audit will highlight areas that may impact legislative requirements, such as alarm performance, as well as areas where business value can be improved, from base control loop performance assessment.

Why does this matter?

As with all systems, individual components within a control system age and can fail. Equipment that has been in operation for a number of years may still function, but the age can preclude replacement when the component does fail. Changes and use of the system can create errors that do not affect the integrity of the system, but do impact the performance. With the inclusion of commercial off-the-shelf technology, performance is also impacted by the underlying system performance, where memory leaks, page file issues and hardware aging can all impact the system responsiveness. Cyber security updates and software patches are related to the system integrity and can affect system uptime. System architecture and its current state in relation to current architecture also has a large bearing on support, migrations and risk from failures. Other softer issues such as Back-up and Restore activities, Disaster Recovery plans and Change Management Systems will also be included into the audit.

A Guide to Effective Alarm Management, Tyron Vardy, Honeywell

Alarm Management has been a continual battle for many companies, for many years. Even today everything from process upsets, to unplanned shutdowns, to catastrophic events, can be attributed to poor or inadequate alarm management. This presentation discusses a phased approach to solving the alarm management problem by describing a scalable deployment model, using best practices, and the latest software tools, which when combined delivers an alarm management improvement program that can be tailored for sites of any size. The presentation will demonstrate how products like Alarm Manager, ACM, and OM PRO are helping solve today’s Alarm Management problem, as well as looking at what the future holds for Honeywell Alarm Management.
Mercury

**Terminal Automation Solutions**, Richard Siereveld, Honeywell

In today's highly competitive market, terminals are no longer “offsites” but critical elements in the supply chain. Honeywell’s terminal automation solutions help terminals to become integrated parts of the supply chain. Honeywell provides a complete solution from shop to top floor consisting of industry leading field equipment, the Enraf portfolio, completed with an unmatched automation platform with Experion as its backbone. Honeywell’s terminal automation solutions provide terminal owners and operators the competitive advantage they desperately need in today’s market. This presentation will focus on the solutions and technologies used that enable Honeywell to deliver solutions that allow terminal operators to run their terminals in the way they want.

Saturn

**How to Increase Engineering Efficiency by Virtualized System Engineering**, Paul Hodge, Honeywell

This presentation is for customers and EPCs building new plants or conducting major retrofits and will show how Honeywell’s Experion Virtualization solutions fundamentally changes the way that projects are deployed reducing the amount of computer infrastructure required and improving project agility. Experion Virtualization Solutions provides the improved flexibility and efficiency of Virtual Testing, allows design freeze dates to be extended and delays hardware purchases saving money in design and installation.

Sadirvan B

**SmartLine Pressure Transmitters**, Dominique Choquet, Honeywell

Announced this week, Honeywell’s new SmartLine pressure transmitters offer industry-leading performance, a unique modular design to replace modules quickly in the field, a new graphic display for control room messages and diagnostics and the best integration features available when used with Experion PKS. These features help reduce project costs and startup time, avoid unplanned downtime, improve product quality, reduce spare parts inventory and shorten time to repair. And, when integrated with Experion, those benefits extend even further to eliminating unit trips, reducing off-spec product and improving plant safety.

This unique control room integration for Experion users provides all the advantages from transmitter messaging, maintenance mode indication, tamper alerts, Field Device Manager area health views and Experion integration testing. These provide tighter coordination between the control room and the field to increase operational efficiency and safety. It’s the best transmitter to use with Experion.
Advantages of a Plant-wide Wireless Network with Experion Integration,
Ignace Verhamme, Honeywell
In this session, Ignace Verhamme will show you the value of Experion R410’s native support of ISA100.11a field devices, safely and securely extending your process control network into the field with a OneWireless infrastructure, including the new Cisco 1552S Access Points and the value of a plantwide wireless infrastructure supporting extensible applications. The new Experion Mobile Access application will be used as an example of an extensible application, supporting mobile workers to access data from Experion.

UIS Enhancements,
Ananthapadmanabha Krishnamurthy, Honeywell
UIS enhancements are customer suggestions to improve operator effectiveness, increase engineering efficiency, and improve reliability while sustaining your automation investments. Join UIS members and developers at this session to learn more about the customer-recommended enhancements that are currently available in Experion and TPS. The session also will include a preview of upcoming UIS enhancements.

Better Information Management with Historian,
Arjen van den Broecke, Honeywell
The benefits of historians are well accepted for providing accurate and timely information for making better decisions and improving safety, reliability, and efficiency. However, many existing approaches fail to fully realize the benefits. This presentation will focus on how applications and people can participate in a broader information bus, where they can easily interact with each other and exchange the information they need in a timely and efficient manner. The session will cover Honeywell’s recommended approach for data capture, archiving, analysis, visualization and collaboration—particularly real-time data—available through a simple interface, and crucially, connectivity.

Mercury
SCADA Solutions, Wijay Wishwanath Godbole, Honeywell
Experion is a versatile and powerful SCADA solution, and Honeywell has a long history in the SCADA market. This presentation will take a fresh look at Experion SCADA features and recent enhancements. In particular, it will cover: Experion’s DSA technology, providing architectures for today and beyond; how Experion incorporates industry-leading research; Experion’s holistic solutions; and Honeywell’s long-term direction for SCADA.

Saturn
Operational Excellence and Personal Safety on Construction Sites,
Erwig De Hertogh, Honeywell
This session provides an overview of Honeywell Global Operations Excellence. Operational Excellence contains project management, project controls and engineering excellence and has the responsibility for global processes/procedures and methodologies, standard builds, productivity tools, skills & competencies for project managers and leaders, training and certification, estimating, key performance indicators, etc. Main goal is efficient and effective project execution in a consistent and similar way, using proven-in-use solutions and best practices all combined into standards.
Lifecycle Sustainability

Reduce total cost of ownership by more than 30% while extending the life of your assets by modernizing with Honeywell.
### Wednesday, November 14 Schedule of Events

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<td>09.00 – 18.30</td>
<td><strong>Honeywell Demo Room Open</strong>&lt;br&gt;Feel Free to Visit our Sponsors&lt;br&gt;Coffee Available in the Sponsors Area</td>
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<td>09.00</td>
<td><strong>First Virtualis 3D Demonstration</strong>&lt;br&gt;Please register your attendance before joining the 3D demonstration at the Jupiter room (limited seats). You can register at the Honeywell Registration and Information Desk. The 3D demonstration starts in parallel with other presentations or sessions. If you wish to experience the demo at another time, you can make alternative meeting arrangements at the Honeywell Registration and Information Desk.</td>
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<td>09.00 – 09.45</td>
<td><strong>General Session</strong>&lt;br&gt;Panel Session: Services - Continuous Evolution: Control System Modernization,&lt;br&gt;Moderator: David Humphrey, ARC&lt;br&gt;Panel members:&lt;br&gt;Mahdi Akbar, EQUATE Petrochemical Company,&lt;br&gt;Paul Stewart, Marathon Oil,&lt;br&gt;Keith Landells, BP,&lt;br&gt;Jim Anderson, Saudi Aramco,&lt;br&gt;Andy Coward, Honeywell</td>
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<td><strong>Replacement of an Existing Movement Automation System</strong>, Ruggero Clerici, API</td>
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<td><strong>Energy Monitoring System Delivers Results in MOL's DMHCK, DCDU and DREFC Units</strong>, Attila Poszmik, MOL PLC</td>
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<td><strong>Successes obtained by Saipem Adopting an iMAC Approach for the Arzew LNG Project</strong>, Luigi Pedone, Saipem S.p.A.</td>
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<td>**Experience with Honeywell Blending &amp; Movement Automation (BMA), Anneke Vemer, Esso Refinery Hilton Hotel Ball Room I</td>
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<td>**The Stuxnet Worm Case. Pain is Gain! An Opportunity for an In-Depth Analysis of Vulnerabilities in DCS/SCADA Systems and How to Increase the Level of their Protection, Dimitris Moutzouris-Lygeros, Motor Oil Hellas Hilton Hotel Ball Room II</td>
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<td>**Operator Training Simulator: A Proven Tool to Improve Safety and Knowledge Transfer at the MOL Refinery, Tibor Szabó, MOL PLC Mercury</td>
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<td>**100 MW Coal Fired Power Plant of AKSA Acrylic Chemical Plant, Sinan UĞURLU, AKSA Acrylic Chemical Plant Hilton Convention Centre Upper Floor</td>
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<td>**Networking Evolution in Grupa Lotos S.A., Piotr Terebieniec, Grupa LOTOS S.A. Hilton Hotel Ball Room I</td>
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<td>**PDH and PP Plant High-Fidelity Operator Training Simulator Project with Honeywell, Salahudheen Ottayil, NATPET Mercury</td>
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<td>TPS-FF to C300 Migration in a Mission-Critical Plant: Yibal Gas</td>
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<td>APC Performance Monitoring in Slovnaft Using Profit Expert, Robert</td>
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<td>Improve UCN Performance through System Performance Baseline, Aitouali</td>
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Welcome Address by Steering Committee Members

Customer Sessions

Planning and Implementing a Total Revamp of a Refinery Central Control Room, Minimizing the Impact on Plant Operations and Business, Bader Jeragh Al-Hadad, Kuwait National Petroleum Company

FCC Control Room Upgrade Project, Jeroen Wessels, BP Refinery

Control of Processes with Large Dead Times – Comparison of Different Approaches Including Profit® Loop, Prof. Rainer Dittmar, West Coast University of Applied Sciences

Corporate Controller Performance Dashboard for Optimizing Control Assets, Ariffen Adnan, Saudi Aramco

Conference Dinner at the Conrad Hotel

Open Bar/After Dinner Network Party
Panel Session: Services - Continuous Evolution: Control System Modernization,
Moderator: David Humphrey, ARC

It has been mentioned by vendors in the automation industry that the philosophy of continuous evolution and migrations for installed systems can lead to a higher total cost of ownership for customers, rather than a “rip and replace” option. This discussion will cover the perspective that building and modernizing control systems enables technology to be gradually evolved to the latest level rather than jumping from an old system to the latest generation technology in one step. Which is more sustainable and which delivers high value to the customer organization will be the focus of the discussion.

Panel members:
Mahdi Akbar, EQUATE Petrochemical Company,
Paul Stewart, Marathon International Oil Ltd,
Keith Landells, BP,
Jim Anderson, Saudi Aramco,
Andy Coward, Honeywell

Welcome Address by Steering Committee Members

Customer Presentations Abstracts

Migration from Experion PKS R211 to R400,
Khalid Al-Khori, Dolphin Energy Ltd.
Dolphin Energy Limited supplies natural gas to UAE and Oman from Qatar and has a large Experion PKS control system. In line with their technology roadmap planning, Dolphin Energy decided to migrate their Experion PKS system from R211 to R400. Dolphin's architecture with 10 redundant servers, 37 C200 controllers and 37 operator stations posed a unique challenge of migrating the system online. This presentation concerns the challenges that Dolphin Energy faced, the main drivers for the migration project, how the migration project was tackled by teaming with Honeywell engineers, the best practices that evolved during the planning stages, and the lessons learnt that will be useful to other customers who are planning similar upgrades.

Welcome Address by Steering Committee Member, Luc de Wilde, TOTAL

Alarm Management – The Underestimated Bad Actor,
Qusay J. Fayoumi, Saudi Aramco
Every plant with a control system has alarms which have not been optimally configured: they sound when they shouldn’t, or stay in alarm status for months on end. The operator – the human who has to work and meet KPIs – is asked to operate his unit with distractions that are not favorable for optimization. For example, trying to control product giveaways within a very thin margin is not easily achievable with anything above the recommended 150 alarms/day (ANSI/ISA-18.2).
Unfortunately, alarm management projects rarely go beyond solving the few bad actors and the operator is left to suffer. In turn, an optimization project may not fully realize the potential it can achieve. This presentation will address the importance of optimizing the alarm layer in order to determine the operator's performance and to benefit from any other technology.

Hilton Hotel Ball Room II
Welcome Address by Steering Committee Member, Francisco J. Alonso Arconada, Repsol

Replacement of an Existing Movement Automation System, Ruggero Clerici, API
For product movement automation of a tank farm of approximately 76 tanks, 1677 valves, 10 materials/products, 4 jetties, 1207 pipelines and 98 pumps, the API refinery in Italy relied on an old version of the OMIS software by Invensys. Such software, even in its latest version, is not very user-friendly and over the years has grown to become very hard to manage. Problems include difficulty in modifying an existing task to reflect changes in the field, apparently random inconsistencies that led to considerable reverse engineering, and difficulty in including new key items in an existing path.

This situation led to a market survey at the end of 2010 for similar products. The competitors were Emerson, Yokogawa, Invensys and Honeywell, and after several product tests API selected Honeywell BMA because it appeared to be the most versatile, user-friendly and, most of all, the best suited for API’s needs.

The project kicked off in late 2011 and the BMA configuration is to take the first seven months of 2012. In October 2012 the old OMIS system will be run in parallel with the new BMA, whose different potential will be immediately clear both to operators and engineers.

Mercury
Welcome Address by Steering Committee Member, Marcin Hynek, Grupa LOTOS S.A.

Energy Monitoring System Delivers Results in MOL's DMHCK, DCDU and DREFC Units, Attila Poszmik, MOL PLC
Energy monitoring system implementation is part of the automation strategy of MOL Danube Refinery. It is used by process operators to be aware of the energy consumption dimension of their operations. This presentation provides a general technical overview about an EM system. It also describes an additional, unique development on how the operator can minimize energy consumption using this system and how it was connected/integrated in the existing environment.

The solution visualizes actual energy consumption (fuels, steam, electricity) and benchmarks it with the best practice consumption for that particular operational mode. Process data modeling is used to obtain the desired target energy consumption dynamically. The resulting information is visualized in operator screens; substantial deviations trigger alerts. All data are archived for further energy footprint analysis. The last part shows some detailed information about the pilot project, the implemented system and the results.
Successes Obtained by Saipem Adopting an iMAC Approach for the Arzew LNG Project, Luigi Pedone, Saipem S.p.A.

Today's marketplace puts ever-increasing demands on end-users to increase production and operate plants in an efficient, safe, and environmentally compliant mode. To achieve these business objectives, end-users need to have better visibility, knowledge, and control over their assets. They achieve this by expanding the automation layers supplied by the EPC from basic instrumentation and controls to Advanced Process Control, Operator Training Simulators, Manufacturing Execution Systems and Supply Chain optimization. As a result of the increasing demand from end-users to expand the automation layers of a process, EPCs have to deal with increasing technology complexity and diverse resource skill-sets to deliver their projects, when considering their process design, project execution, and vendor selection processes.

Saipem selected Honeywell to be the Integrated Main Automation Contractor (IMAC), for the Arzew LNG Liquefaction Project. Honeywell delivered the full automation scope for the plant including instrumentation, DCS, ESD, F&G (field), APC, OTS and MES. This approach minimizes the project risk by having a single contractor for the implementation of the automation solutions and by deploying state-of-the-art technology that is scalable and compatible throughout the automation layers.

In this session, Saipem will address the most common issues EPCs are facing today and how Saipem have tackled them by selecting the IMAC approach with Honeywell, for the Arzew project. We will highlight actual benefits obtained by Saipem when implementing and using this approach. Specific examples will practically explain the project execution methodology.

Particular attention will be put on improved troubleshooting capabilities obtained during project execution and FAT to reach the business objectives (delivering on-time, on-schedule, on-budget, with less risk), along with operations and business readiness (smoother startup and reliable first year of operations). We will see what automation layers were selected, how these components fit together, and describe the benefits and challenges from such an implementation.
Obtaining Extremely High Availability with Experion PKS, Thamarai Selvam, DUSUP

The Dubai Supply Authority (DUSUP) is the sole supplier of gas to all the power and desalination plants in Dubai. Faced with such a daunting task, continuous operation without any downtime is critical to our success. When we expanded our operation in 2005, the goal was to achieve very high availability by incorporating multiple levels of redundancy right from the field devices to the control rooms. To avoid human error in an emergency, the control state of each valve station has to always be synchronized between the main and backup control rooms with minimum human intervention.

The Experion architecture with C200 controllers turned out to be ideally suited for our requirement and we have developed a system which has automatic and transparent synchronization between the control rooms. The system includes control loops for bumpless transfer of PID control from the main control room to the backup control room for continuous automatic control. HMI displays that seamlessly present the data from either of the two control rooms are also part of the system design. The design has been rigorously tested to eliminate single points of failure, and ensure any single failure will not prevent the remote operation of a valve station.

Experience with Honeywell Blending & Movement Automation (BMA), Anneke Vemer, Esso Refinery

Esso Refinery Rotterdam, one of the refineries of ExxonMobil, has a large Experion PKS control system. For the Offsites area, control is done by Honeywell BMA, Blending & Oil Movement Automation. Esso Rotterdam was one of the first BMA implementations. This presentation covers the main challenges Esso has faced, including experiences with Honeywell support and EPKS compatibility for such a new product.
Stuxnet is the first computer malware (worm) to attack SCADA/DCS systems. It’s the first, most powerful and dangerous virus in our field. In this presentation we will not analyze its code, nor analyze in-depth the techniques used, but will present in a step-by-step manner their attack methods which will display the security holes that gave the opportunity for Stuxnet authors to attack the systems of the Iranian nuclear plant.

Moreover, beyond the era of the current global economic crisis, hidden electronic wars have erupted, as confirmed by malware such as Stuxnet, Dugu, Night Dragon, Flame, and the Axciom company case. The era of (false) complacency about the security of our systems has passed. Unfortunately there are security holes everywhere, and in our systems. Let’s treat Stuxnet as a “pain is gain” case for us. As a proverb in my country says, “Guard your clothes and you can keep half of them.” What should we do to maximize the safety of our so sensitive and precious systems? Let’s find out in this presentation.

Mercury
Welcome Address by Steering Committee Member, Luc de Wilde, TOTAL

Operator Training Simulator: A Proven Tool to Improve Safety and Knowledge Transfer at the MOL Refinery, Tibor Szabó, MOL PLC
The first OTS at MOL Danube Refinery was implemented in 2007 in the FCC unit by Honeywell. Today MOL operates eight OTS systems in four plants. This presentation will describe the expectations and challenges that inspired MOL to develop its complex education and training process for employees. It will introduce the OTS systems and discuss their effectiveness, before looking at trainers, trainings and the evaluation forms; the advantages of OTS trainings; and their beneficial effect on operational safety. Finally, some new approaches for trainings will be presented. For example, how to organize a proper training for the unit staff to deepen their knowledge about unit optimization, or what kind of practices can be organized to better understand APC management and operation.
Installation of OneWireless on East Brae, an Open Module Offshore Oil and Gas Platform, Keith Johnson, Marathon Oil

The East Brae Platform was built in the early 1990’s, the original DCS was a Honeywell TDC3000 system which has since been upgraded to Experion, utilising a mixture of the original HPM controllers and C300 controllers. The continual drive to optimise the platform’s production through modifications to the existing platform and the addition of third party business via subsea tiebacks has resulted in a significant reduction in spare capacity in existing multicore field cables and DCS I/O. In order to minimise the financial cost of additional cabling and I/O, as well as, maximising the use of modern technology, Marathon has installed a Honeywell OneWireless system covering part of the process plant.

This presentation will discuss the challenges of providing wireless coverage in a densely populated process plant, the effectiveness of the design and installation, the integration with Experion and considerations before moving towards increasing coverage and additional utilisation of the wireless infrastructure.

100 MW Coal-Fired Power Plant of AKSA Acrylic Chemical Plant, Sinan Udurlu, AKSA Acrylic Chemical Plant

AKSA Acrylic Chemical Plant is the world’s leading producer of acrylic fiber, providing more than 13% of global requirements. The AKSA 100 MW coal-fired power plant consists of 1x400 t/h and 1x230 t/h boilers, 1x25 MW steam turbine, 1x75 MW steam turbine, SCR, ESP, FGD, coal handling and BOP units. The AKSA cogeneration power plant supplies electrical and thermal energy as steam to AKSA itself and its sister companies AKKIM and AKTOPS.

The Honeywell scope for this project includes boilers, burner system, coal mills, ESP, SCR, FGD controlling and monitoring via Experion with C300, coal conveyor system via HC900, turbine vibration monitoring systems, over-speed protection systems, generator’s exciter, AVR and protection systems, and power plant historian via PHD.

The burner systems consisted of 8 oil-fired burners; four each on two floors. AKSA changed this system to 12 gas-fired burners on three floors. Due to the insufficient functional design specification for boilers and burner management systems, it was almost impossible to implement the software in a safe way.
Welcome Address by Steering Committee Member, Marcin Hynek, Grupa LOTOS S.A.

Networking Evolution in Grupa Lotos S.A., Piotr Terebieniec, Grupa LOTOS S.A.
This presentation will show in a few examples how changes introduced to Grupa LOTOS S.A.’s industrial IT networks increased their reliability and security. The main triggers that initiated the changes and the influence of an external security audit on the implemented solution will be described. A few facts about our current FTE topology will be shown, and some information about enhancements will be presented. The presentation will also elaborate the main internetworking problems, those encountered with FTE, and those which are still waiting to be solved. At the end, some of our current implementations projects of network monitoring systems and future plans will be discussed.

Welcome Address by Steering Committee Member, Jamal Balushi, PDO Oman

Integrated Automation Assessment (IAA) Case, Francisco Arista and Pedro Villar, CEPSA La Rábida Refinery
This is a comprehensive report that analyzes the actual configuration and performance of customer automation from different angles, covering the integration and performance of the control system, the safety of their operation, the optimal evolution of the lifecycle of their technology, the variability of their process control and the efficiency of their Industrial Power facility.

We will discuss the standardized and non-intrusive processes used to extract all the relevant information, the key parameters that will define the quality of the Automation, and the Best Practices that will keep the customer site working at the optimum performance over time. The idea is to present (from the point of view of a customer) and discuss a real case and real results of an integrated automation assessment that will allow the customer’s site to have metrics that will systematically assess, improve and sustain the reliability, efficiency and safety of operations in a measurable way.

Welcome Address by Steering Committee Member, Luc De Wilde, TOTAL

PDH and PP Plant High-Fidelity Operator Training Simulator Project with Honeywell, Salahudheen Ottayil, NATPET
NATPET is a petrochemical complex located in Yanbu Al Sinaiyah, Saudi Arabia. Its 400 kta propane dehydrogenation plant and polypropylene plant use UOP C3 Oleflex technology and Basell Spheripol technology respectively. Management decided to implement an Operator Training Simulator in both plants for effective and high-quality training of its operations personnel. The scope of work included engineering, procurement, construction and commissioning of the OTS system as per the detailed specifications.
Saturn

Welcome Address Steering Committee Member,
Paul Stewart, Marathon International Oil Ltd.

Two Honeywell C300-Based Turbo Machinery Control Retrofit,
Lucas Havlicek, United Energy

The district heating plant in Komorany in the Czech Republic is responsible for generating and distributing heat to the city as well as producing and exporting electrical energy to the public grid. High-pressure steam is produced in coal-fired boilers and is expanded in steam turbines (both back-pressure and condensing turbines) to meet the demands of heat and power.

One of the 34 MWe back-pressure turbines was equipped with a CCC steam turbine controller. Due to obsolescence it was necessary to replace it. This was done with the Honeywell Turbine Machinery controller which is based on a non-redundant Experion C300 controller with a control execution environment cycle of 20 msec. The non-redundant SPM C300 and VPM C300 I/O cards were used for speed pickup and fast hydraulic valve positioning control.

Together with the engineering team of the Czech Republic, the project was a success and a second turbine will be equipped with the same Experion hardware and software. In this way Komorany has achieved full control integration of the utility plant to optimize production, maintenance and service.

Welcome Address by Steering Committee Members
Welcome Address by Steering Committee Member,
Luc de Wilde, TOTAL

Alarm Management in Sohar Polypropylene Plant, Saud Aldhowyani, ORPIC

This presentation will describe the alarm management system in the Sohar polypropylene plant and the path forward after the merger between Sohar Aromatics and the Sohar Refinery (now ORPIC). Initially there were three separate entities: the polypropylene plant and the aromatics plant were fully Honeywell, while the refinery was Yokogawa with Honeywell ESD and F&G systems. At the polypropylene plant the customer installed and used an alarm management package on a daily basis. The presentation will cover the lessons learnt, and the potential for complex-wide alarm management.
Cyber and Physical Plant Security: A Practical Example,
Romano Karlović and Ivana Šarlija, INA Rijeka Oil Refinery

The Rijeka oil refinery started a project for implementing a refinery information system in the middle of last year. Because of the need to integrate business and production processes to achieve new strategic goals and the transition from closed (proprietary) communication protocols and technologies to new, open IT standards, there is a need to implement appropriate security solutions to eliminate the possible occurrence of additional security risks. There is a need for better production planning and prediction, development of correlation between process parameters of the production with the laboratory studies, and model-based control of strategic goals, for which it will be necessary to connect a process historian node (PHD - Process History Database) with the business network infrastructure in the company.

In Rijeka refinery there is therefore a technical and safety issue related to the way of interconnection of the DCS system and integrated process communication infrastructure with the business which was via an older generation of Cisco PIX firewall with limited functionality.

The issue of integration between business and process information systems is the central point in the computerization of all process industries, including oil refineries. Such integration allows the establishment of monitoring and optimization of production systems in real-time, which contributes to a more rational and flexible business system. On the other hand, such integration also has its costs – it increases the complexity and “vulnerability” of the system.

To achieve the goals from the computerization of production based on the integration of business and process systems without increasing risks and threats to “core” technology, it is necessary to design and implement an optimal and consistent level of safety and security. The success of the project was a basis for rapid large-scale computerization, which will be implemented under the project of modernization of refineries.
**Hilton Hotel Ball Room II**

**Welcome Address by Steering Committee Member,**
Marcin Hynek, Grupa LOTOS S.A.

**OTS Projects - Key Factors of Success Plus Success Story,**
Tomasz Bytner, Grupa LOTOS S.A.

Refinery of Grupa LOTOS S.A., Gdansk, Poland continuously develops panel operator training by means of OTS. We have successfully completed three OTS projects which significantly improved our panel operator training. This made us certain that new training method is worthy of further development and we have signed contracts with Honeywell to supply two new OTS systems. In this presentation we are going to share our experience gained during each phase of the OTS projects. We will focus on key factors of successful OTS project execution from a customer point of view. This includes data supply, DFS issues and approach to FAT/SAT. We will close the presentation with an interesting success story proving that a good OTS system can be used not only for training purposes.

**Mercury**

**Welcome Address by Steering Committee Member,**
Ahmed Haddou, Sonatrach

**Nonlinear Adaptive Generalized Predictive Control of Industrial Processes,**
Sid Ahmed Gaffour, Sonatrach and M. Mahfouf, University of Sheffield

This paper presents a new design methodology for an efficient real-time implementation of on-line Adaptive Generalized Predictive Control (AGPC) based-nonlinear model for industrial processes. An optimization approach with the Gradient Decent Projection technique is proposed to calculate the predictions of the control actions. Two examples, including a simulation for the control of a nonlinear process of binary distillation column and a real-time application for the control of a physical variable-frequency of rolling speed of an experimental hot-rolling mill, are used to demonstrate the effectiveness of the proposed method. For the latter, comparative performance levels of the results obtained through the proposed AGPC work with those obtained using the conventional PID controller approach are presented. An adequate quantitative comparison can be obtained in terms of the statistical metrics using the root square error (RMSE) of speed and the average power of the controller demands of the motor in order to carry out the experiment. For instance, the RMSE performance index for some experiments resulted in 6.34 rpm for AGPC and 12.18 rpm for the PID controller and the average power used by the motor when using AFGPC was 1.134 kW, whereas for the PID controller this value was 2.946 kW. Both results of the two example simulations show that the proposed method is capable of controlling industrial processes with a good performance under set-point and load changes.
Welcome Address by Steering Committee Member, Heinz Janiec, Shell

APC Related Challenges at Slovnaft Refinery, Judita Feketeova and Tomáš Pavlík, Slovnaft, a.s.

One of the main challenges of the Slovnaft Refinery is middle distillates maximization with reference to energy saving. Advanced process control of the diesel line units was completed by APC implementation at the GHT7 unit in Y2011.

The main target of GHT7 APC besides GO production maximization is to avoid GO over-treating by improved control of diesel product sulfur content, to keep treat gas to feed ratio and to save hydrogen, the production of which requires high energy input. The GHT7 furnace limitation used to occur in case of high throughput when high heating demand resulted in high fuel gas pressure on burners. This high pressure is a critical safety issue which caused an APC run constraint. The benefits of APC encouraged us to work out a solution for APC constraint removal to ensure full APC uptime. The solution helps to keep APC ON and it also leads to further savings of H2 and energy at GHT7 and helps increase the refinery’s diesel production.

This year we continue with APC implementation at the NHT4 and CCR units, and we intend to complete the APC revamp at the FCC and GHCK units. After a short introduction of Slovnaft Refinery APC related plans for Y2012 the FCC APC revamp will be discussed in details.

APC was implemented at the FCC unit in 2004. Two years later the FCC unit was revamped to increase capacity by 25%. In 2010 a project was initiated to revamp APC to bring it up to date with the unit revamp. The first controller was split into reactor & regenerator and the main fractionator part. An option to select between olefin, gasoline and LCO mode was added. Additionally, optimization objectives have changed – most significantly feed maximization is no longer an objective and energy efficiency is an important target. Changes in the controllers and controller objectives compared to the original design will be discussed. The three modes, their impact on reactor & regenerator and main fractionator part and the new energy saving target will be presented. Also covered are the benefits achieved through APC implementation at the Slovnaft Refinery.
The Egina Floating Production Storage and Offloading (FPSO) Development Project,
Chuks Ezenma, Total Upstream Nigeria Ltd.
The Egina FPSO development project, (an Integrated Control and Safety System) is a company-managed contract, unlike a more familiar contract strategy which is assigned to an EPC to manage. This strategy requires effective risk management, by planning and specifying the technical requirements in order to fully integrate the respective control systems without an overall project delay.

A typical FPSO development involves execution of an independent EPC contract, incorporating Subsea Production System, Umbilical Floating and Riser System, Floating Production Storage and Offloading (Hull & Topside), Offshore Loading Terminal, and Long Lead Items (Turbo Gen, Turbo Comp etc). Moreover, these contracts contain several independent control systems.

The Phase 1 Egina ICSS basic engineering has been completed with the deliverables forming the baseline for the EPC’s scope of work requirements. The Egina ICSS contractor must understand that the Phase 2 execution is on the critical path of the overall project execution plan in terms of deliverables and expectations from various EPCs and other contractors, in order to achieve the desired overall project milestones. This presentation will show that ICSS is at the core of the FPSO.

Furthermore, TOTAL is considering integrating extra scope such as CCTV, e-Mustering, POB and radar under one coherent control philosophy. The presentation will also show the importance of having the enduser and the ICSS partner (once selected) to work hand-in-hand toward the best integrated solution, which will also lead to collateral benefits such as maintenance and long-term support.
TPS-FF to C300 Migration in a Mission-Critical Plant: Yibal Gas Processing Plant,
Jamal Balushi, PDO Oman

At the Yibal Government Gas Plant facility, the Honeywell TPS-FF solution was migrated to the latest C300-FF solution in February 2011. This PDO facility is the oldest gas processing facility in Oman (over 30 years old) and produces 18 mmcmd of gas. The Yibal GPP plant supplies gas to major power plants and plant availability is very critical to meet the power demand. The project was initiated to mitigate obsolescence risk of FF field instruments connected to the Honeywell TPS-FF system. The criticality of this project was to carry out the changeover activity from TPS-FF to C300 within the 36-hour shutdown interval available.

The presentation discusses the planning activities carried out to meet the shutdown interval in terms of pre-testing, site commissioning schedule and back-up plans. The presentation runs through the team’s key activities carried out in this 36-hour interval. The presentation also covers the key learnings from this migration.

The migration was carried out within the scheduled shutdown with a smooth plant start-up and production. Yibal GGP now has the latest EPKS 400 on C300 FF controller thus mitigating the obsolescence risk for the customer in record time.

PHD Story,
Aleksander Spich, Grupa LOTOS S.A.

This presentation describes the history and main reasons for implementing a Uniformance PHD system at Grupa LOTOS S.A, how the IT project became part of the critical infrastructure and why everyone expects the same level of reliability from PHD as in control systems.

The main part of the presentation deals with migration to PHD R300. The whole process will be shown from preparation, early attempts to set up the system, problems during migration and how PHD was finally rebuilt. The detailed architecture of our current PHD system will be revealed and explained, including surrounding systems. We will also show that PHD can be great for integrating data from many different control systems – not only Honeywell – and the bridge between control systems and IT systems.
Welcome Address by Steering Committee Member, Marcin Hynek, Grupa LOTOS S.A.

APC Performance Monitoring in Slovnaft Using Profit Expert, Robert Taraba, Slovnaft, a.s.
APC implementation is used worldwide to achieve multiple benefits for refineries. APC performance degradation in time is a well-known phenomenon which can be avoided by APC maintenance. A very important part of APC maintenance is APC performance monitoring and APC run evaluation. To improve these activities, Profit Expert was implemented in Slovnaft Refinery in 2010/2011.

APC performance monitoring and APC run evaluation without a proper tool is a time-consuming task which can be solved by Profit Expert utilization. It provides different types of analyses within a short time and so helps to provide the required steps for timely APC maintenance. The importance of Profit Expert within APC performance monitoring and maintenance will be demonstrated by practical examples based on the experience of Slovnaft’s Process Automation group.

This paper will deal with APC performance monitoring before and after Profit Expert implementation. Project history, network connection, software installation and application configuration for data collection, report generation, comparison of APC performance evaluation before and after Profit Expert implementation, benefits of Profit Expert and its current status within BG MAX utilization will be discussed.

Welcome Address by Steering Committee Member, Ahmed Haddou, Sonatrach

Improve UCN Performance through System Performance Baseline, Aitouali Fouzi, Sonatrach
Since the installation of the Honeywell TDC 3000 DCS in Sonatrach’s LNG plant in 1994, a lot of enhancements and optimizations have been adopted to respond to the demand dictated by the integration of new equipment to the existing control system, along with the use of new applications such as PHD to perform process data archiving and distribution. This situation has led Sonatrach management in collaboration with Honeywell to consider a maintenance contract to keep the overall system healthy and up-to-date.
Welcome Address by Steering Committee Members

Customer Presentations Abstracts

Hilton Convention Centre Upper Floor

Welcome Address by Steering Committee Member,
Dominique Rouille, ExxonMobil

Transforming from Conventional Hardware to a Virtualized Platform, including On-Process Migration from EPKS R301.3 to R400.2,
Anneke Vemer, Esso Refinery Rotterdam

Esso Refinery Rotterdam, one of the refineries of ExxonMobil, has a large Experion PKS control system. System configuration and development started in 2006, and the system is in operation since 2008. With hardware refresh due to begin and EPKS R400 available, the site decided to combine the R400 upgrade with moving to a virtualized platform. Working closely with Honeywell, proof of concept was done on the Rotterdam EPKS development system. This presentation covers the experience so far, and will discuss the main challenges and path forward.

Hilton Hotel Ball Room I

Welcome Address by Steering Committee Member,
Francisco J. Alonso Arconada, Repsol

Lifecycle Management (LCM) Project in Repsol, Mario Macias, Repsol

In the beginning of 2006 we decided to face the upgrade of some of our oldest systems. Honeywell warned about the end of support of MFC and AMC; we had no complaints about the behavior of these elements. Although there were Data Hiways with Basic Controllers we decided not to include them because they were not obsolete.

In our five refineries in Spain we had a loss of Data Hiways with MFC and AMC and we had to schedule the migration along with the shutdowns of the plants. We decided to migrate them to HPM. We signed an LCM contract with Honeywell for 6 years for migrating all of these systems. This year is the scheduled end of the contract and in this presentation we will explain the main items of the project.

Hilton Hotel Ball Room II

Welcome Address by Steering Committee Member,
Jose Maria Martin, BP Refineria de Castellon, S.A.

Advanced Process Control (APC) Benefits Applied to FT De-Propaniser Column, Shilan Govender, SASOL Synfuels

At the Synfuels Catalytic Cracker (SCC) unit at SASOL Synfuels, the FT De-Propaniser column forms an important part of the C3 value chain. The purpose of this column is to take C3/C4 molecules from upstream units and maximize C3 recovery while still adhering to the mechanical specifications of the equipment and product specifications of the respective streams. Unstable feed conditions (both in composition and quantity), tight specifications of product streams, interactive variables and the necessity of the column to be included in an overall C3 Profit Optimizer made this a good candidate to collaborate with Honeywell to find an ideal engineering solution. The project’s success is due to the close rapport and structured workflow between operations of the plant and the project team. This presentation outlines the unit’s process conditions, constraints and tribulations, and outlines the engineering approach taken to maximize yield while adhering to final specifications. The baseline recovery and implementation recovery after APC is shown to emphasize the effect on the bottom line.
Welcome Address by Steering Committee Member, Paul Stewart, Marathon International Oil Ltd.

Noretyl ESD Upgrade Project, Helle Manger, Noretyl A/S
Noretyl is the INEOS ethylene plant at Rafnes Norway and is a gas cracker commissioned in 1977. Main products are ethylene and propylene mainly used in downstream local petrochemical plants. Cracker capacity is 550,000 ktpa ethylene and 80,000 ktpa propylene.

The plant’s ESD system consisted of ABB machines of several generations installed between 1985 and 2000. All main nodes were obsolete and had to be replaced. Honeywell Safety Manager nodes were installed and incorporated into the existing Experion PKS for one unified operator interface. Phase 1 converted all safety functions in the main plant except furnaces and is completed. Phase 2 will contain 11 furnaces, boilers and emergency isolation valves and is scheduled to start early 2013.

The project established cause & effect diagrams based on existing program listings and P&IDs. All functions were reviewed and all non-safety functions removed from the ESD and implemented in three new C300 controller nodes. About 2,000 safety I/O were implemented into four SM-nodes and an additional SM-node for gas detectors was included in the Honeywell delivery. Configuration and testing was performed by the local Honeywell office in Norway.

Replacing all signals during a plant shutdown was considered too extensive to finish within the accepted timeframes, so 85% of the signals were moved loop by loop to the new system during full production. This required careful planning, good procedures, close coordination with operations and a dedicated project team during 18 months of changeover. The last 15% of signals were moved during a plant shutdown in April/May 2012.

Today we have a modern safety system with a fully integrated operator interface with DCS. The process graphics show the safety logic functions giving useful information to the operators. Progress was according to plan and budget in all phases. More important, all signals were moved to the new systems without causing plant trips or major process upsets.
Welcome Address by Steering Committee Member, Heinz Janiec, Shell

Complex Refinery-Wide White Product Optimization, Ulrich Schmitz, Shell Wesseling

The blending of white products in a refinery near Cologne in Germany had to be updated and enhanced. The start of the project was an update of the old blend-optimizer for gasoline, which dated back to the first half of the 1990s. The pure batch blending procedure for gasoline was automated with a modern OpenBPC system from Honeywell, directly communicating with the BRC Series 30 in the Honeywell DCS.

In a second stage the blend optimizer was enhanced to the gasoil products HEL and diesel. These middle distillate products are blended in a rundown lineup; thus with no component tanks and a direct routing from the producing plants to the blend header and the product tanks. To fulfill this task and give the optimizer more degrees of freedom, the optimizing space was enhanced to cover not only the components directly routed to the blend header, but also the inline plants for desulphurization and the side-draws from the crude- and HCU distiller plants as the producer for the main streams for the middle distillate pool. This task was also solved using OpenBPC by Honeywell with a special, online applicable model on the basis of Production Scheduler from Honeywell. The realization of the project includes the 3 LCNs and 2 MPCs already controlling the crude- and HCU-distillers.

Experimental data is acquired from the refinery DCS and includes continuously measured variables and analyzer assays available on-line. Dynamic models based on Finite Impulse Response (FIR) and Output Error (OE) identification methods are presented. To avoid a trial and error procedure, genetic algorithm model order optimizing is proposed. Based on developed soft sensors, it is possible to entirely replace on-line analysis, embedding the model in a DCS on-site.

Honeywell Croatia experts adapt and implement the developed model on-site. The models are implemented on an advanced application module within the Honeywell DCS using CL. Benzene content is calculated based on dynamic polynomial models and stored in a process history database.

The results show very good matching with experimental data on the validation set, thus proving their usefulness for on-line estimation of benzene content in the light reformate. Moreover, since the process analyzer for benzene content is often out of order due to maintenance, the model replaces an on-line analyzer. Performance is validated comparing the results with laboratory analyzes carried out 2 or 3 times a day.
Welcome Address by Steering Committee Members

Customer Presentations Abstracts

Hilton Convention Centre Upper Floor

Welcome Address by Steering Committee Member, Heinz Janiec, Shell

Implementation of the Advanced Process Control (APC) Systems on Crude Distillation and Fluid Catalytic Cracking Process Units in LUKOIL NEFTOCHIM BURGAS Refinery – Project Organization and Results, Angel Nedelchev, LUKOIL NEFTOCHIM BURGAS

Honeywell’s APC application was successfully implemented on two process units in the LUKOIL NEFTOCHIM BURGAS refinery in 2011. Both Crude Distillation (CDU) and Fluid Catalytic Cracking (FCCU) process units are greatly important in the process flow scheme of the refinery. APC systems such as the optimization tool demonstrated the ability to improve the operation of the units which reflect on the overall economics of the refinery.

The implementation of the APC system on both process units proved their positive effect over the operation of the units. However, the improvement was recognized not only via easily calculated economic parameters, but also via stabilization of the order of technological parameters. The main benefits derived from the implementation of the system are:

- Effective management of the product yields in correspondence with the operative requirements.
- Precise supervision of the key quality parameters of the derived products by means of the developed virtual analyzers.
- Limitation in the fluctuation of the quality parameters of the derived products.
- Stabilization of the key operational parameters.

The presentation discusses the project organization and the results of the implementation.
Operational Effectiveness Improvement Using Matrikon Alarm Management and Control Performance Monitoring System, Krisztián Poór, MOL PLC

Estimates of the percentage of industrial process controllers with performance problems are surprisingly high – various studies indicate that somewhere between 66% and 80% of controllers are not performing as well as they should. There are many ways to assess the quality of process controllers, but in general they explicitly or implicitly involve a comparison of the current quality of control to a standard. MOL started a pilot project in the FCC unit last year and implemented Matrikon CPM and Alarm Management to monitor and assess the control loops and alarm system. The first part of the presentation highlights the most frequent control failures, and techniques to avoid them. It introduces Taiji PID, the tuning part of the CPM and their report capability. The second part shows what actions have been taken.

Soft Sensors Development and Application in INA Rijeka Oil Refinery, Željka Ujević Andrijić, Nenad Bolf & Tomislav Rolich, University of Zagreb, Croatia and Romano Karlović & Toni Fabrio, INA Rijeka Refinery

As vehicle emission standards become more stringent, there is an increasing need for continuous monitoring of benzene content in gasoline. Since on-line analyzers are often unavailable, and laboratory analyses frequently unavailable, dynamic model of soft sensors for benzene content estimation of light and heavy reformate have been developed.

Industrial Network Hardening: a Case Study, Mohamed Amine Kaddour Brahim, Sonatrach

The world today is seeing a steep increase in terms of energy demand, thanks to the oil, gas and renewable energy suppliers' efforts to fulfill this big energy need. However, behind all the performance and efficiency of LNG, LPG, coal and non-conventional gas providers are huge investments and funds in all industrial components: transmitters, actuators, wiring and especially control systems.

Implementation of open control systems in industrial sites and networks has offered many options and advantages to plant users, such as getting a daily plant report, watching process data, and receiving alert emails at office PCs. However, within all these facilities a big threat to plant and industrial networks could lose a plant millions of dollars and hinder its activities. This threat could endanger every one of us using a PC. It's cyber criminality, a well-known vulnerability of all existing industrial open control systems.
This presentation is a case study focusing on the hardening of an existing TDC3000 Honeywell industrial network. The network has a typical Honeywell TPS architecture, including LCN, NIM, EPLCG, GUS, PHD etc. The link between the industrial net and the IT one is a shadow server needed for PHD clients. The presentation also shows the different steps undertaken to secure the industrial plant network, firstly by auditing each part of the LAN like open application ports, workstation profile policies, running applications, and many other actions. The second step was the study of the best solutions at the lowest cost in regard to the previous audit results, by modifying the network architecture to respect and comply with the norms. This included adding a new router and configuring it to allow IT users to access only the DMZ, which was necessary to reach the required safety level.

Finally, this industrial network security improvement has allowed us to be more conscious of the danger encountered by control systems. Many threats like viruses, Trojans, root kits and other tools of today's cyber criminals are endangering every industrial site. They could harm the good functioning and operating of a plant, leading to many safety concerns, even though we have secured our network. Cyber criminality still progresses and uses new harmful tools, so every network administrator and user has to bear in mind that facing and stopping threats is a daily task, in order to benefit and profit from the advantages of an open control system.

**Welcome Address by Steering Committee Members**

**Customer Presentations Abstracts**

**Planning and Implementing a Total Revamp of a Refinery Central Control Room, Minimizing the Impact on Plant Operations and Business,**

Bader Jeragh Al-Hadad, Kuwait National Petroleum Company

To meet international market demand, refiners and the industry as a whole undertake expansion as well as modification of current refinery infrastructures and business configurations, resulting in either Greenfield or Brownfield projects. KNPC, the National Refiner of Kuwait, has embarked on an ambitious mega Brownfield project called the Clean Fuels Project (CFP) to update the environmental/specification criteria for its products coupled with capacity expansion at its existing refineries. A major challenge of the project is to execute it with minimal disruption to existing operations and production, while ensuring safety of people and assets, reliability of operations, and production assurance. A major scope of this project is to totally revamp the existing Central Control Room to enhance the ambience, acoustics, traffic density and ergonomics, to improve the operations of existing and new process units.

This presentation comprehensively analyzes the configuration of the existing control system, and factors to be taken into consideration to maintain plant operations at all times by transferring control operations from the central control room to the local control rooms and back to the central control room. It was also important to guarantee that information is continuously available at the business decision-making level, thereby enabling KNPC to shutdown the entire control room for remodeling.
Welcome Address by Steering Committee Member, Luc de Wilde, TOTAL

FCC Control Room Upgrade Project, Jeroen Wessels, BP

In November 2011 the BP Rotterdam Refinery (BPRR) started to modernize its control rooms for their FCC area with high performance HMIWeb displays based on the ASM philosophy. Via a jointly held workshop for Project Definition and Start-Up (PDSU) the integrated team from the refinery and Honeywell took a deep dive into defining the HMI concept. This presentation will describe the process of moving from a native display operated FCC unit to an HMIWeb Solution Pack and ASM compliant operated FCC area. The presentation will also discuss the steps involved in upgrading the existing Honeywell systems to the latest Experion PKS platform, as well as migrating the existing DCS infrastructure.

Welcome Address by Steering Committee Member, Heinz Janiec, Shell

Control of Processes with Large Dead Times – Comparison of Different Approaches Including Profit® Loop,

Rainer Dittmar, West Coast University of Applied Sciences

Most industrial processes are characterized by the presence of time delays. They are caused by some of the following phenomena: (1) the time needed to transport mass, energy or information; (2) the accumulation of small time lags in a number of lower-order systems connected in series; (3) the required processing time for sensors such as analyzers, and the sampling and processing time for digital control algorithms. Processes with significant dead time are difficult to control using standard feedback controllers because: (a) the effect of disturbances is not felt in the control error until a considerable time has elapsed; (b) the effect of the control action also takes some time to affect the control variable and tries to correct a situation that occurred sometime before. In the frequency domain, the dead time introduces an additional decrease in the phase of the process frequency response which reduces the stability margin and the achievable closed-loop bandwidth. To overcome these difficulties, different approaches have been developed in control theory, including: 

(a) PID controller tuning rules specifically devoted to processes with large dead times; 
(b) dead time compensators which require a process model and lead to a more complex control structure (in particular, the process model itself and some filters have to be implemented on the DCS); 
(c) the application of predictive control algorithms which are also model-based, and include a dead time compensator implicitly.

In the presentation, these approaches are compared with each other simulating different process control applications on Experion PKS and Matlab/Simulink. For PID controller tuning, recently developed tuning rules are used. A modified Smith predictor controller including two filters is used for dead time compensation. The two-degree-of-freedom (2DOF) structure enables independent tuning for setpoint response and disturbance rejection. It is implemented in Experion PKS using standard software function blocks. Finally, the Profit® Loop controller of Experion PKS is used for single-input, single-output model predictive control.

The comparisons include: 

(a) the performance of the closed loops in terms of rise/settling times and overshoot for both setpoint and input disturbance step responses; 
(b) the robustness with respect to plant-model mismatch, in particular for the process time delay; 
(c) the effort for design, implementation, tuning and maintenance. Finally, recommendations will be given in which situation which of the control approaches described above should be applied.
Welcome Address by Steering Committee Member,
Paul Stewart, Marathon International Oil Ltd.

Corporate Controller Performance Dashboard for Optimizing Control Assets,
Ariffen Adnan, Saudi Aramco

Maintaining optimum performance of PID and APC controllers is important for stable, reliable and efficient unit operation. Poorly maintained regulatory and advance controllers result in increased operator workload, and highly variable and unreliable operation. It also impacts plant safety, and in some cases results in frequent unit shutdowns.

In recognizing these needs, Saudi Aramco engineers developed a web-based real-time Corporate Controller Performance Dashboard for all DCS-based regulatory controllers and Advanced Process Control (APC) throughout Saudi Aramco plants. The Controller Performance Dashboard is being utilized as a tool to maximize the plants' controller availability and reliability, thus optimizing the plants' control performance and profitability.

The Corporate Controller Performance Dashboard incorporates sets of key performance indices (KPIs) such as Effective Utilization index, Oscillation index, Percent of Standard Deviation and Relative Performance index. The plant Overall Performance Index (OPI) is calculated based on the selected indices, and OPI will be utilized to gauge the overall control assets performance of the plant.

The objective of this presentation is to share the Corporate Controller Performance Dashboard functionalities and utilization, to optimize the performance of control assets.
Honeywell’s ASM techniques can help reduce instances of alarms by as much as 99%.
Thursday, November 15 Schedule of Events

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<td>Conference Registration</td>
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<td>Third-Party Migration to Experion: Sustainable and Flexible Solutions</td>
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<td>Satnam Bhogal, Honeywell</td>
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<td>Effective Supply Chain Management</td>
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<td>Arjen van den Broecke, Honeywell</td>
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<td>Wireless Integration with Experion PKS - Hands On, part 1 (two</td>
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<td>Safety Manager: New Versatility and Universal Safety I/O, Erik</td>
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<td>Cyber Security, Rick Kaun, Honeywell</td>
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<td>Sustain Advanced Solutions Benefits, Daren Lewis, Honeywell</td>
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<td>Turn Off-sites Automation into a Competitive Advantage using</td>
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<td>Honeywell’s BMA Solution, Clive Walker, Honeywell</td>
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<td>(part 2), Rosen Kasting, Honeywell</td>
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<td><strong>Integrated Safety and Security Solutions</strong>, Adrian Fielding, Honeywell</td>
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<td><strong>How to Improve Automation Investments for Hiway Modernization</strong>, Atanas Anev, Honeywell</td>
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<td><strong>Operator Competency</strong>, Gurinder Gill, Honeywell</td>
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<td><strong>New Reliability Solutions</strong>, Gary Peacock, Honeywell</td>
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<td><strong>Case Study Holly Frontier Navajo Refining: Regulatory Controls Enhance Safety and Assist in Environmental Compliance while Providing Economic Benefits</strong>, Andy Coward, Honeywell</td>
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<td><strong>Lifecycle Sustainability: Modernization Solutions for TPS</strong>, Rodney Tjon, Honeywell</td>
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<td><strong>Sustaining and Enhancing Advanced Process Control Benefits</strong>, Don Morrison, Honeywell</td>
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<td><strong>Instrument Asset Management</strong>, Tony Alexander, Honeywell</td>
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<td>12.50 – 13.50</td>
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<td><strong>General Session</strong></td>
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<td><strong>Man in the Loop – Management; Comparing and Contrasting Control room Operations with Flying Jets</strong>, Derek Watson, Mindful Leadership</td>
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<td>14.45 – 15.15</td>
<td><strong>Coffee Break sponsored by CCS</strong></td>
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<td>15.15 – 15.45</td>
<td><strong>EMEA HUG 2012 Question &amp; Answer Session with Honeywell Experts</strong>, Moderator: Ignace Verhamme, Honeywell</td>
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<td><strong>Venue 2013 Announcement</strong>, Orhan Genis, Honeywell</td>
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Hilton Convention Centre Upper Floor

Virtualization Solutions: Improving Availability and Performance,
Paul Hodge, Honeywell

This presentation will go into detail on the most common use case scenarios for Honeywell’s Experion Virtualization solutions in the process automation industry. Attendees will get a clear idea on the ways Experion Virtualization solutions benefit customers building new plants or those with existing plants that want to improve the efficiency, availability and performance of their existing automation systems. We will cover in detail the Experion Virtualization Roadmap and the exciting new developments that are coming soon.

Hilton Hotel Ball Room I

Third-Party Migration to Experion: Sustainable and Flexible Solutions,
Satnam Bhogal, Honeywell

Two general areas should be examined when justifying a migration project: the cost of doing nothing and the expected benefits from a migration. This session discusses the proactive justification and methods used to migrate from other DCS and safety systems to Experion. Although benefits vary from plant to plant, they have many common characteristics. These will be discussed, and examples from actual success stories will be included. The presentation also covers the crucial elements of the upfront work that helps to make a migration successful, and explores options for migrations, their advantages and disadvantages.

Hilton Hotel Ball Room II

Effective Supply Chain Management, Arjen van den Broecke, Honeywell

This session will review Honeywell solutions that help customers improve their planning & scheduling and supply chain performance. We will review the challenges associated with changing supply chain dynamics and the impact they have on the plant—especially the need for improved agility and integration with execution. A review of key solution components and a view of the roadmap will be offered with a focus on integration and common visualization. Examples of solutions will be discussed to tie this back to real-world implementation and value.

Mercury

Batch Management, Chris Morse, Honeywell

Major new functions for batch are built into Experion PKS Orion, such as a native batch summary display and class-based recipes, which reduce engineering effort. A separate Recipe Builder for the configuration of recipes enables secure segregation of batch user tasks. This presentation describes how the new functions, plus Experion Batch Manager’s unique batch execution in the controller, result in: increased batch execution availability, increased throughput (3%), improved operator usability, easier changes in configuration and recipes, and ease of lifecycle change management.
Saturn

**Wireless Integration with Experion PKS - Hands On**, Rosen Krastev, Honeywell
*(Note this is a two hour session) part I*

In this hands-on two hour session, you will obtain an overview of how the OneWireless™ Network and Honeywell’s complete portfolio of wireless products and solutions seamlessly integrates with Experion® PKS.

Hands on takeaways:

- Review the most common wireless network topologies (mesh, star, tree, hybrid).
- Take a detailed look at industrial wireless applications in the area of mobility, personnel safety and security that deliver the most value.
- Learn how to access wireless data from an Experion system or by using OPC UA (Unified Architecture).
- See how easy it is to implement wireless at your own site. Training participants will have the opportunity to configure a network using OneWireless System Manager Release 210. Due to limited equipment, participants may need to work in teams.

Honeywell Technology Sessions

Hilton Convention Centre Upper Floor

**Safety Manager: New Versatility and Universal Safety I/O**, Erik de Groot, Honeywell

The Safety Manager and Universal Safety I/O Update session will provide an overview of what’s new and exciting with respect to Honeywell’s highly successful integrated Safety Instrumented Systems (SIS). With the release of Safety Manager R150 we continue to broaden the Universal Safety I/O portfolio as well as the Safety Manager portfolio in general. This presentation describes how R150 helps users reduce total cost of ownership and solve many challenges while executing a SIS project.

Hilton Hotel Ball Room I

**Cyber Security**, Rick Kaun, Honeywell

Technology and security demands continue to increase while skilled resources and time to apply technology decreases. Join us to learn more about Honeywell’s cyber security offering roadmap. Designed to enable short-term, project-based improvements, which lead to long-term, low-cost maintenance and support options, Honeywell is constantly adapting its security portfolio to align with our customers

Hilton Hotel Ball Room II

**Sustaining Benefits from Advanced Applications**, Daren Lewis, Honeywell

Supporting and sustaining advanced solutions brings many benefits. This session focuses on how to solve the challenges of supporting advanced solutions to maintain those long-term benefits. It outlines and discusses best practices and includes customer examples that illustrate effective and proven service strategies that sustain and increase advanced solution benefits over the application lifecycle.
09.55 – 10.40

Mercury

Turn Off-sites Automation into a Competitive Advantage using Honeywell's BMA Solution, Clive Walker, Honeywell

Off-site management is a key part of the operation of refineries, terminals, and tank farms, and has a significant impact on the overall safety and profitability of these facilities. This session brings to light the challenges of blending and movements, and shows how Honeywell's Blending and Movement Automation (BMA) solution helps address these challenges to improve safety, reliability, and profitability. The session will share recent project experiences that demonstrate how customers are applying BMA to solve off-site management challenges. It will also review Honeywell's development plans and priorities in this area.

Saturn

Wireless Integration with Experion PKS - Hands on Continued (note this session starts at 09.00), Rosen Krastev, Honeywell

11.10 – 11.55

Hilton Convention Centre Upper Floor

Integrated Safety and Security Solutions, Adrian Fielding, Honeywell

Experion PKS provides the only truly integrated safety and security solution, supporting complete operational integration through a single dashboard. This approach improves business performance by reducing the risk of incidents, faults and failures that can threaten people, assets and the environment, as well as disrupt normal operations. This presentation describes Honeywell's holistic approach to industrial security, which includes a complete core offering—tightly and seamlessly integrated to Experion PKS Orion—ensuring faster proactive response to alarms and events through situational awareness and early detection, improved operator productivity, and reduced installation and maintenance costs. New offerings include a pipeline integrity solution and radar video surveillance for on-land facilities, which enable significant savings over camera-only based solutions.

Hilton Hotel Ball Room I

How to Improve Automation Investments for Hiway Modernization, Atanas Anev, Honeywell

TDC 2000 Hiway has been operating reliably for more than 30 years. Solutions have been developed that optimize the migration process to help reduce risk, preserve intellectual property, minimize rewiring, and take advantage of new technologies. This presentation provides a variety of use case examples and also explores the advantages and tradeoffs of each solution.

Hilton Hotel Ball Room II

Operator Competency, Gurinder Gill, Honeywell

Process industries have a real challenge to develop and sustain operator competence at a time when a highly specialized workforce is retiring to be replaced by a new generation of employees. In addition, firms both large and small are facing challenging business goals. Many companies help to address this by investing in Operator Training Simulators (OTS). This presentation describes actions companies can take now as part of an integrated training program to develop, maintain and improve operator competence. The methods discussed are motivated by industrial practice and experience from leading operating companies, industrial consortia and simulation professionals, and serve to focus the UniSim product roadmap.
**Mercury**

**New Reliability Solutions**, Gary Peacock, Honeywell

It’s no secret that asset management is one fast, simple way to reduce operating and maintenance costs, improve productivity, and gain efficiencies while preserving process safety. Honeywell puts asset management in three areas: condition-based monitoring, reliability, and maintenance. Companies derive the most value when they automate data flow between these areas using defined workflows. Honeywell’s expertise is in managing data and pulling data into a simple, integrated, real-time framework. This session shows how Honeywell’s new products, solutions, and services enable the seamless flow of data between the three asset management areas in real-time for quicker, more accurate decision-making; Honeywell’s new, enhanced strategic partnerships are also covered.

**Saturn**

**Case Study: Holly Frontier Navajo Refining, Regulatory Controls Enhance Safety and Assist in Environmental Compliance while Providing Economic Benefits**, Andy Coward, Honeywell

Navajo Refining has had an active regulatory controls program with Honeywell for the last four years. This automation program is intended to improve plant safety and reliability and enhance environmental regulatory compliance while realizing potential economic benefits. We will focus on several key results including: 1) Operational improvements for the incinerator stack at a sulfur plant; 2) Safety improvement from utility steam system control; 3) Improved hydrogen unit production control, and 4) Increased benefits from improved regulation in a naphtha splitter, enabling the implementation of multivariable predictive control. Continuous monitoring and managing regulatory control has reduced the number of manual loops by 80 percent.

**Honeywell Technology Sessions**

**Hilton Convention Centre Upper Floor**

**Reduce Operational Risk and Costs Through integrated Fire & Gas Solutions**, S. Srikumar, Honeywell

To help understand the need to reduce a plant’s overall operation risk by the fire and safety operations team, this session provides an overview of the latest developments in Honeywell’s portfolio of (a) sensing technology of fire and gas equipment, (b) communication protocols, and (c) systems like supervisory system, fire panels and logic solvers. When installed as in integrated solution, these technologies provide alerts of abnormal situations in a fast, accurate and structured way, giving personnel time to decide upon the correct course of action that complies with all local and international fire safety regulations. Honeywell Experion technology is a single real-time view to the fire station or the plant operators of any potential threat, and provides early warnings of fire, explosion and health for process and non-process areas. These solutions include centralized engineering capabilities for both fire panels and logic solvers, new integration capabilities with process simulation tools, F&G detectors, and control communication protocols, enabling safety engineers to design and build large, integrated and distributed plant-wide safety strategies.
12.05 – 12.50 Hilton Hotel Ball Room I
**Lifecycle Sustainability: Modernization Solutions for TPS**, Rodney Tjon, Honeywell
Honeywell’s TPS modernization options demonstrate our lifecycle sustainable migration philosophy. This session will contrast the cost of ownership benefits of Honeywell’s migrate and modernize at your own pace, preserving intellectual property approach with competitors’ rip and replace strategies. Different options for modernizing TDC 2000, TPN (LCN) and TPS to Experion will be examined. This will include HMI integration using Experion TPS (ES-T, ESVT), Universal Station upgrades with PC Universal Station (PCUS) and control level integration and network modernization with Enhanced UCN (EUCN).

12.50 – 13.30 Hilton Hotel Ball Room II
**Sustaining and Enhancing Advanced Process Control Benefits**, Don Morrison, Honeywell
Advanced Process Control (APC) is a broadly accepted technology for improving the profitability of plant operations, providing quick ROI and excellent initial acceptance. As this technology has become more accepted, users have realized that sustaining and even enhancing the benefits of existing application benefits has become a challenge and requires organizational focus similar to any other plant asset. This session discusses the key findings across industry in the area of sustaining (and enhancing) APC benefits as well as Honeywell’s current solutions and vision/roadmap to address these issues within our Profit Suite and Control Performance Monitor offerings.

13.30 – 14.15 Mercury
**Instrument Asset Management**, Tony Alexander, Honeywell
The benefits of smart devices in engineering, commissioning, operations, and troubleshooting are no secret. Project implementation savings have been achieved through faster commissioning, useful digital information, and simpler maintenance procedures. But savings are not possible or sustainable without an intelligent instrument management system and practices and procedures to nourish smart digital instrumentation through routine maintenance. This presentation covers Honeywell’s offerings in smart device management, focusing on the latest from Field Device Manager (FDM). The session includes examples of benefits FDM users have seen and examines ways to improve the sustainability of an operation through smart device management.

13.50 – 14.45 Hilton Convention Centre Upper Floor
**General Session**

14.45 – 15.15 Hilton Convention Centre Upper Floor
**EMEA HUG 2012 Question & Answer Session with Honeywell Experts.**
Moderator: Ignace Verhamme, Honeywell
Join us at the Question & Answer session including four or five Honeywell Experts. Questions and their Answers gathered throughout the conference and in particular at the roundtables will be shared with the audience.

15.15 – 15.45 Hilton Convention Centre Upper Floor

15.45 – 16.00 Hilton Convention Centre Upper Floor
**Closing Session**, Roberto Simeone, Chairman 2012 introducing EMEA HUG Chairman 2013. **Venue 2013 Announcement**, Orhan Genis, Honeywell
Sustain Profitability

Honeywell has helped deliver more than $3 billion in energy, compliance and operational savings to customers.
Friday, November 16 Schedule of Events

08.00 – 18.00  
Three Different Training Sessions for Customer Delegates
Including Coffee Breaks

Hilton Hotel Ball Room I

09.00 – 12.00  
Introduction to Experion PKS in a Virtualized Environment,
Benoît Landat, Honeywell
The student will be introduced to virtualization as it applies to Experion PKS.
Topics will include:
- a. Virtualization basics
  Transition the student from the physical to the virtual environment using VMware ESXi as the transition focus.
- b. A look into ESXi and what it does
  View the ESXi environment and relate to the student its organization and basic components.
- c. How Experion PKS is implemented in ESXi
  Architectural comparison of a virtualized and non-virtualized Experion PKS system.
- d. Will include demonstration of a virtualized EPKS system.

08.30 – 12.30  
Hilton Hotel Ball Room II
Effective Human Machine Interface and Operator Workspace Design,
Eric Kouwenhoven, Honeywell
This Training Course provides an overview for a successful design and implementation of an effective Human Machine Interface (HMI) and operator workspace. The workshop is based on ASM research projects, ASM guidelines, Honeywell Advanced HMWeb Solution Pack and the latest Experion functionality.

A poorly implemented HMI increases workload, frustration, and confusion, and can ultimately impact each of the three problem areas: safety, reliability and efficiency. An effectively designed HMI and operator workspace can reduce operator workload, improve situational awareness, and help the operator prevent minor deviations from becoming major incidents.

- Introduction to Abnormal Situation Management (ASM)
- Effective Display Design based on Interaction Requirements Analysis
- Qualitative Display Shapes and the impact on Operator Situation Awareness
- The concept of using different levels of displays to allow an operator to move between the “big picture” to the “details” around individual equipment areas
- Proactive monitoring versus reactive monitoring
- Operator Span of Control
- New Honeywell Advanced HMWeb Solution Pack functionality:
  - Principle and associated focus
  - Display yoking
  - Tabbed display objects
  - Polar Star (radar plots)
  - Temperature deviation profile
  - Horizontal profile objects
  - Historical data objects
  - Performance curve monitoring
  - Advanced HMWeb shapes based on ASM Research projects
- Integration with Alarm Help and Dynamic Alarm Suppression
- Execution and monitoring of automated procedures and batch recipes with the latest user interface controls
- Console & workspace design
Driving Overall Equipment Effectiveness, (OEE), a Strategy for Business Results
Stan Grabill, Honeywell
Whatever the manufacturing process, its capacity-productivity (aka asset utilisation) is defined by Overall Equipment Effectiveness or OEE; comprising Uptime, Rate, and 1st Time Prime Quality. Industry's hidden factory can be discovered by looking for manufacturing processing shortfalls behind each of these three factors.

Many companies are not familiar with OEE or do not understand how to effectively assemble the underlying OEE data into powerful information. Once assembled correctly, the data can be utilised to unlock the hidden capacity within the existing manufacturing asset base.

Join Stan Grabill for this seminar and learn how mature manufacturing companies utilise OEE to identify, quantify and ‘monetise’ the business value of the events that represent the gap between current OEE performance and 100% OEE. These clearly quantified OEE gaps then translate in to tactical and strategic improvement projects that will enable the company to leverage the most out of existing assets; plus a case study depicting business results from 6 years of OEE deployment experience within Honeywell’s chemical business.

- the definition of OEE and related KPI’s
- the ‘typical’ and ‘benchmark’ values of OEE
- how to quickly estimate your plant’s current OEE,
- how to quickly estimate the business value in closing your OEE performance gap
- how OEE can provide visibility to constraints and where to focus
- how to build the OEE metric at both the plant level and division-wide
- how to set up the management accountability structure; tactical and strategic

Introduction to Experion PKS in a Virtualized Environment,
Benoît Landat, Honeywell
The student will be introduced to virtualization as it applies to Experion PKS. Topics will include:

a. Virtualization basics
Transition the student from the physical to the virtual environment using VMware ESXi as the transition focus.

b. A look into ESXi and what it does
View the ESXi environment and relate to the student its organization and basic components.

c. How Experion PKS is implemented in ESXi
Architectural comparison of a virtualized and non-virtualized Experion PKS system.

d. Will include demonstration of a virtualized EPKS system.
Honeywell’s integrated diagnostics can prevent costly plant shutdowns, saving at least $500,000 per occurrence.
**Speaker Biographies**

**Darius Adamczyk, Honeywell**
Darius Adamczyk is president of Honeywell Process Solutions. Previously, he was named president of Honeywell Scanning & Mobility (HSM) after Honeywell acquired Metrologic Instruments in 2008 and merged it with the existing HHP business. Prior to the acquisition, Darius served as the chief executive officer of Metrologic. Darius joined Metrologic after a successful tenure at Ingersoll Rand, and also served as a senior associate at Booz Allen Hamilton, a global strategy and technology consulting firm. He began his professional career as an electrical engineer at General Electric in 1988. Darius holds an MBA from Harvard University, a Master's degree in computer engineering from Syracuse University and a Bachelor's degree in electrical and computer engineering from Michigan State University. In addition, he completed the GE Edison Engineering Program, as well as numerous executive development courses at Wharton and Duke (among others).

**Ariffen Adnan, Saudi Aramco**
Ariffen Adnan has worked in petrochemical, refinery and gas plants since 1993 as Process Control Engineer, and joined Saudi Aramco in 2007. His primary focus has been on Process Control/APC and control assets performance technologies and their implementation, assessment and remediation. Ariffen graduated in Chemical Engineering from the Technical University of Nova Scotia, Canada.

**Saud Hamdan Al Dhouyani, ORPIC**
Saud Hamdan Al Dhouyani is working with Oman Oil Refineries and Petroleum Industries Company (ORPIC) since 2008. Saud joined ORPIC PP as Control Engineer responsible for all related system activities on site. In 2011 he was promoted to Instrument Team Lead. Saud holds a Ph.D. in data analysis and processing. As researcher he was a member of an artificial intelligent laboratory that worked on projects in image processing, fuzzy logics and neural networks.

**Tony Alexander, Honeywell**
Tony Alexander has over 28 years of experience in DCS systems from the introduction of TDC 2000 to Experion PKS. He joined Honeywell in 1981 as a systems engineer commissioning TDC 2000 systems in oil refineries. He has held various roles associated with process control systems, joining the technology group in 2002 as a solutions consultant.

**Bader A. Jeragh Al-hadad, KNPC**
Bader A. Jeragh Al-hadad has over 13 years’ experience working with the Kuwait National Petroleum Company (KNPC), the national refinery of Kuwait. Currently he is part of the Clean Fuels Project (CFP) management team as Senior Instrument & Electrical Design Engineer. His roles and responsibilities include but are not limited to the overall control and supervision of instrumentation and control systems in the CFP. Bader has considerable experience coordinating with EPC contractors and international automation vendors. He has a Masters in Electrical & Electronics Engineering.
Khalid Al-Khouri, Dolphin Energy Limited
Khalid Al-Khouri is the Automation Manager in the Qatar operations of Dolphin Energy Limited. He leads a team of professional engineers in PCS, Safety Systems, Industrial Networks, RTDB and Industrial Telecom to manage and ensure integrity, availability, reliability, performance and efficiency of automation systems in line with QHSE standards and production targets. Khalid has 15 years experience in oil & gas automation. He started his career as PCS engineer in the Qatar Petroleum refinery and led the Automation & Instrumentation team for major projects before joining Dolphin Energy in 2010. He has a degree in Electrical Engineering from the University of Miami, Florida and has started his EMBA in energy at HEC Paris in Qatar.

Jean-Marie Alliet, Honeywell
Jean-Marie Alliet is sales support director for Honeywell Process Solutions EMEA and is HPS country manager in Belgium and Luxembourg. He is based in Brussels, Belgium. His team of technology consultants is responsible for the roll-out of system platforms and technical pre-sales support to the sales force across EMEA in close cooperation with the global product marketing organisation. He has been with Honeywell since 1985 and has held several positions in sales support, system engineering, application engineering, project management and account management. Since 1993, he has been leading the EMEA field marketing and sales support teams. He has an engineering degree in electronics and measurement and control.

Francisco J. Alonso Arconada, Repsol
Francisco Alonso Arconada has been with Repsol since 1992 working as an advanced control engineer in projects related to testing of new software, equipment, basic and advanced control in different units. He has taught at the University of Valladolid, ISA Spain and the Instituto Superior de la Energia. He has an engineering degree in automation and electronics from the University of Valladolid in Spain.

Mahdi H. Akbar, EQUATE
Mahdi Akbar has been working as process automation engineer for the past seven years in various manufacturing units across EQUATE. He is project leader for EQUATE's DCS migration project from R211 to R400 and DCS subject matter expert in EQUATE. He is a member of the Honeywell User Input Subcommittee (UIS) Mahdi Akbar, holds an electrical engineering degree in control systems from California State University – Fresno and a Masters Degree in Economics from Kuwait University.

James E. Anderson (Jim), Saudi Aramco
Jim has 34 years of experience in process, advanced controls and process automation systems in the chemical, gas and refinery industries. Jim has been with Saudi Aramco for 28 years where he is a senior engineering consultant. Previously, he worked 6 years for Dow Chemical. He has been actively involved in a variety of automation projects and leading-edge technology implementations. He has a chemical engineering degree from Brigham Young University and is an ISA Certified Automation Professional.
Atanas Anev, Honeywell
Atanas Anev is strategic marketing manager for Honeywell Process Solutions – Lifecycle Services. His current responsibilities include legacy control system products and lifecycle support. He holds a master’s degree in process automation and has worked for over 25 years in the process control industry. He has extensive experience in consultancy, engineering, operations, program management and marketing. Atanas has been with Honeywell Process Solutions for more than 20 years, working in the areas of strategic business development, control systems automation planning, engineering, design and lifecycle support.

Francisco Manuel Arista Lopez, Cepsa
Francisco Manuel Arista Lopez, is the Control System Team Leader at La Rábida refinery in Huelva, Spain. He has been working for Cepsa for over twenty seven years, and more than 22 year experience in APC and Control System. Now he is responsible for the DCS, SIS, automation systems and APC’s in La Rabida Refinery and Cepsa Chemistry Plant in Huelva. He has an Industrial Chemistry degree from University of Seville.

Jamal Balushi, PDO Oman
Jamal Balushi has 22 years of Instrumentation and Control Systems experience in oil & gas projects, and operation maintenance from technician level through to senior control & automation engineer. Professional training includes detailed Shell Global Solution training. Jamal is a strong all-round Control and Automation Engineer with experience in instrumentation, analyzers, and a variety of control and safeguarding systems from vendors such as Honeywell, Emerson and Yokogawa. He has experience in industrial networks including Foundation Fieldbus, Modbus, OPC, and wide area distributed industrial fiber optic networks. He is also a certified DACA/PCAD administrator.

Graeme Bell, Technews Publishing
Graeme Bell holds the dual executive roles of Editorial Director and Chief Information Officer on the board of the South African engineering publisher, Technews Publishing. His current (13 year) tenure in the technical/engineering publishing arena was preceded by more than 10 years of hands-on experience in electronic, automation, and bio-medical engineering. He is a past-President of the Society for Automation, Instrumentation, Measurement and Control (SAIMC). Graeme has a post-graduate diploma in electrical engineering and an MBA with majors in information management and e-business.

Satnam Bhogal, Honeywell
Satnam Bhogal is the EMEA Program Leader for 3rd Party Migration. His primary responsibility is working with customers to develop a justifiable business case in overcoming the affect of obsolescence with their ageing non-Honeywell systems whilst preserving the initial investment as far as possible.

He has well over 25 years experience in the process automation industry with much of that in the global arena and in various process industries. During the earlier part of his career he played a leading technical development role with some of the other major brands of control technologies available at that time. With a wide and varied career his experience over the last 20 years is seen firmly established in international sales. He joined Honeywell six years ago.

Satnam has a BSc in Chemical and Process Engineering from the University of Newcastle upon Tyne and an MBA from the Aston Business School. He is based in Bracknell, UK.
Mohamed Amine Kaddour Brahim, Sonatrach
Kaddour Brahim is an Instrument and Control Engineer at Sonatrach in Algeria. He manages Sonatrach’s LNG2 TDC 3000 applications development, PHD system administration, and Triconex and Schneider applications design. He has experience at Sonatrach’s LNG2 plant in instrument maintenance and calibration, gas chromatography analysis and loop tuning. He also has experience in power generator speed control, steam turbine control and as project contributor for the installation of a new anti-surge system. He has an electronic and control engineering degree from Oran University in Algeria.

Tomasz Bytner, Grupa LOTOS
Tomasz Bytner manages the operations training team in Grupa LOTOS refinery in Poland. He is responsible for implementation of the new operator training system and OTS systems in general. He previously worked as field operator, panel operator and plant manager. He holds an MSc. degree in chemical engineering.

Adriano Canale, Honeywell
Adriano Canale Parola is in the EMEA group of Consultant Systems for Honeywell Process Solutions and studied industrial information technologies. Adriano has been with Honeywell Process Solutions for more than 25 years working in the area Process control systems and engineering. He has experience in consultancy, engineering, operations and marketing.

Dominique Choquet, Honeywell
Dominique Choquet is responsible for Honeywell Field Instrumentation business in EMEA. With more than 20 years experience, his previous responsibilities include working as a design Engineer at Honeywell France in Amiens factory, Technical Support Manager, Country and Regional sales manager for Southern Region and GMP sales Leader for Field products. He is currently based at Honeywell Paris, France. Dominique holds a Software and Hardware engineer degree from ESEO in Angers, France.

Ruggero Clerici, API
Ruggero Clerici is a Senior Instrument and Process Control Engineer within the Process Control department at the API Refinery in Falconara, Italy. He has been with Api for 14 years and has been involved in all the major revamps of process units, and was project manager of the revamp of Api’s terminal at sea. He holds a Functional Safety Engineer title and is the focal point for ESD systems, protection strategies and all SIL analysis. He is currently the promoter and the key person in the migration/update of the ofsite DCS system and of the movement automation system. Ruggero lectures on Instrumentation and Protection Strategies at the University of Perugia. Prior to working in the refining industry, Ruggero gained 5 years’ experience in Logistics and Management of Relief Projects with international organizations such as IOM, UNHCR and WHO, and NGOs in the Balkan area. He speaks fluent Serbo-Croatian and holds a bachelor’s degree in Electrical Engineering from the University of Ancona.
Andy Coward, Honeywell
After working for ExxonMobil for six years as a Process Engineer, Andy Coward moved to Honeywell where he has worked for the last 16 years. He has worked in both projects and in sales, initially delivering advanced control applications on different refinery, petrochemical and oil and gas processes. He then progressed to leading a consulting team of specialists focusing on Advanced Solutions across the whole of Europe, Middle East and Africa. From this role he moved to being responsible for the Advanced Solutions technology portfolio globally and he is now Director of Performance Services in the Lifecycle Support Services group, developing value add services to Honeywell customers on their installed systems globally. Andy is a Chemical Engineer, having gained his degree in Newcastle University in England. He is based in Bracknell in the UK.

Barbera de Baar, Honeywell
Barbera de Baar joined Honeywell Safety Management Systems in 2002. In 2006 she became pan-EMEA marketing communications specialist for Honeywell Process Solutions. Part of her job is to organize the annual Honeywell Users’ Group for EMEA and Middle East. She also manages the Honeywell Users’ Group Steering Committees. Before she joined Honeywell, Barbera gained work experience in petrochemicals with Shell. She has also worked for Halliburton in Gabon, West Africa, and in the shipping industry out of Cape Town, South Africa. Barbera has a Six Sigma Green Belt certification and is currently located in the Netherlands.

Erik de Groot, Honeywell
Erik de Groot is the marketing manager for safety management systems for Honeywell Process Solutions. He has been active in the process industry for more then 20 years. He started with Honeywell as an application engineer in the Amsterdam office. He then held positions in sales support, consultancy and then moved into product marketing in 1999. Product management roles have included responsibilities for Experion engineering tools, Experion process controllers and simulation environments. He holds a Bachelor’s degree in chemical engineering from HTS Hilversum, the Netherlands. He is located in ‘s-Hertogenbosch, the Netherlands.

Erwig De Hertogh, Honeywell
Erwig De Hertogh is EMEA PM/PCO Excellence at Honeywell Process Solutions since November 2011. Erwig joined Honeywell in 1992 and has held several positions from Application Engineer to Senior Project Management and Belgium Country Operations Manager. Being in Project Operations for almost 20 years, he has gained a wealth of experience in project execution, both inside (PACE, Belgian Affiliate, HBS) and outside (Fabricom) Honeywell. He has a master’s degree in Electrical Engineering from the University of Antwerp.

Luc De Wilde, TOTAL
Luc De Wilde is advanced process control, optimisation and DCS specialist in the base chemicals unit of TOTAL in Feluy, Belgium. After graduating from the University of Ghent, he joined the Fina (now Total) refinery in Antwerp as a control engineer. Mr. De Wilde has managed several projects in the areas of DCS, advanced process control, optimisation, training simulators and management information systems. He is a member of the Honeywell Users’ Group EMEA Steering Committee and the User Input Subcommittee (UIS).
**Rainer Dittmar, West Coast University of Applied Sciences**

Rainer Dittmar gained a PhD in Chemical Engineering from the Technical University Merseburg (Germany) in 1976. He worked for 7 years as a Process Control Engineer at PCK Refinery Schwedt, before becoming Head of Pilot Plant Control at Chemieanlagenbau Leipzig. From 1987 to 1991 he was Assistant Professor at the Technical University Merseburg in the Department of Chemical Engineering, followed by 5 years as an APC Consultant for Profimatics and Honeywell. Since 1997 he is Professor for Control Engineering, West Coast University of Applied Sciences at Heide, Germany.

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**Lourens du Plessis, SASOL**

Lourens du Plessis has been with Sasol Technology since 2003 where he worked as a control engineer. He presently heads the process automation systems and functional safety group, which is stationed in Secunda, South Africa. The group focuses predominantly on the replacement of near obsolete control and emergency protection systems.

He has a chemical engineering degree as well as a master’s engineering degree in process control both from the University of Pretoria. He is currently vice co-chairman of the Honeywell user input subcommittee.

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**Chukwuka Ezenma, Total Nigeria**

Chukwuka Ezenma manages the ICSS (Integrated Control and Safety System) in the Egina Field Development Project. Previously he managed the successful delivery of Egina ICSS Phase 1 (the basic engineering) by Honeywell in Nigeria. He joined Total in 1994 and is responsible for implementation of Egina ICSS Phase 2 (detail engineering, construction, testing, installation and commissioning). He previously worked as ICSS Project Engineer and Technical Authority in the Akpo Field Development Project and other Total Upstream Nigeria projects. He holds a Bachelor of Engineering degree in electronics engineering.

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**Qusay Fayoumi, Saudi Armaco**

Qusay Fayoumi has worked in the process control field since 2001, on various projects in oil & gas, shale oil, food and beverages, and has gained experience in modeling and simulation. He also has experience in plant design and facility upgrades, and in daily plant problems and troubleshooting. Qusay has worked on MVC projects, designed ERP systems, and optimized regulatory control layers. He is an experienced user of various data sources for analysis and problem-solving. Qusay holds a bachelor’s degree in chemical engineering and an MBA degree, and is currently working with Saudi Aramco’s Yanbu NGLF department.

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**Judita Feketeová, SLOVNAFT, a.s.**

Judita Feketeová leads the Process Automation, a.s. which deals with Advanced Process Control, Operator Training Simulator implementation and supervision, Control Performance Monitoring and Alarm Management implementation and supervision. She also deals with simulation of refinery hydroprocessing reactors to predict and influence their catalyst life. She previously worked at Chemical Engineering Group and at Advanced Application Group. Judita has a master’s degree in chemical engineering from the Slovak University of Technology in Bratislava.
Adrian Fielding, Honeywell
Adrian Fielding is the senior manager for industrial security solutions and works in the Global Marketing team within Honeywell Process Solutions. Adrian has been part of the Global Industrial Security initiative with Honeywell for over six years. He is responsible for the coordination of Honeywell’s strategic partners, business development and product marketing of key solutions for the protection of large- and medium-sized operations that include but are not limited to: refineries, pipelines, power plants, chemical plants, on- and off-shore facilities, and industrial ports. Prior to re-joining Honeywell Adrian was the Integrated Systems Division Manager for Swiss security products manufacturer, Kaba. Adrian has a strong technical background due to his 10 years of service as an Avionics Engineer with the Royal Air Force.

Faouzi Aitouali, Sonatrach
Faouzi Aitouali is a Control Systems Engineer and has worked for the Sonatrach GL2Z LNG plant for the past 10 years. He graduated from the National Institute of Electricity & Electronics of Algeria with an Engineering degree in Automation and Control in 2002. He initially worked for the maintenance department as an instrument engineer and then moved to the technical department as a member of the GL2Z DCS team in 2004. The DCS team is responsible for the Honeywell TDC3000, various subsystems, and all control and safety applications installed within the GL2Z plant.

Sidahmed Gaffour, Sonatrach
Sidahmed Gaffour is a postgraduate of the University of Science and Technology of Oran (Algeria). He has gained two MSc degrees - in Systems & Signal Processing (1999) and Automatic Control and System Engineering (2005). He obtained his PhD degree in 2011 from the University of Sheffield (UK) after studying Advanced Control, Hybrid Modeling and Optimization in the Intelligent Systems Research Group. His research work led to a number of international conference and journal publications in the field of metals design and processing with applications focusing on ‘through-process modeling and optimization’ as well as ‘prediction of mechanical properties’ using Computational Intelligence methodologies.

Sidahmed is currently working for Sonatrach Oil & Gas Company, which he joined in 2000 as Instrumentation Principal Engineer in the Maintenance Department, before being assigned to the DCS Technical Department as System Principal Engineer. Currently he works in Maintenance Direction, which leads all LNG and LPG plants’ Maintenance Departments in Algeria. His work also includes troubleshooting process problems.

He has acquired profound knowledge of complex systems modeling, optimization and advanced control (MBPC). His portfolio of research experience includes machine learning, evolutionary multi-objective optimization, data-driven modeling, clustering, fuzzy logic, and neural networks and model-based predictive control.
Orhan Genis, Honeywell
Orhan Genis is Honeywell Process Solutions’ Vice President of Sales and Business Development for the EMEA region. Before his current role he was Regional General Manager for Eastern Europe and CIS for Honeywell Process Solutions. Prior to joining Honeywell Process Solutions he had a long and successful career at UOP – a Honeywell Company – since 1990. He had assignments in the petrochemicals, refinery optimization, hydroprocessing and gasoline technologies, engineering & consultancy services in the USA and UK offices of this company. During UOP assignments he held positions as Director of Engineering and Consultancy services, and General Manager of Catalysts & Advanced Materials in the UK office of UOP Ltd. His last position at UOP was General Manager of Catalyst, Adsorbents & Specialties Business for EMEA region at UOP CH Sàrl – Rolle, Switzerland. Orhan started his career in the refining industry and has worked for 15 years in Turkish Petroleum Refineries Corp. (TUPRAS) mainly specializing in production and investment planning. He graduated with a BSc Chemical Engineering degree from the Middle East Technical University of Turkey in 1974 and has a postgraduate degree in Leadership from University of Exeter, UK.

Gurinder Gill, Honeywell
Gurinder Gill is business development manager for Honeywell’s operator training simulation (OTS) business in EMEA. He is based in Bracknell, UK. Much of his career has been dedicated to the delivery of dynamic simulation solutions through consultancy, operator training and engineering systems, project management and business development. After graduating from the University of Loughborough as a chemical engineer, he joined Lummus. After a brief period with Matthew Hall, he joined Wiggins Teape as a diagnostic engineer to troubleshoot production problems on paper machines. This kindled his interest in modeling as a means to cost-effectively analyze problems and he joined SAST as a simulation engineer. SAST was acquired by AspenTech in 1997. Within SAST and AspenTech he had a wide range of roles, which included lead engineering, project management and development. At the end of 2004, after the acquisition of the Aspen OTS business by Honeywell, he joined the EMEA OTS business development team.

Wijay Godbole, Honeywell
Wijay Godbole has over 20 years of experience in DCS systems ranging from TDC 2000 to Experion PKS. He joined Honeywell in 1992 in customer support services as an engineer providing field services and training all over India and Middle East. He has a Bachelor degree in Electronics and Diploma in Management. He has held various roles associated with process control systems, joining the technology group in 2011 as a solutions consultant.

Shilan Govender, SASOL Synfuels
Shilan Govender is the Business Unit Lead – Refinery for the Instrumentation & Control Engineering (I&CE) group of SASOL Synfuels. He previously worked for Honeywell SA – AMS group before joining SASOL Synfuels in 2008. He is responsible for overseeing instrumentation and control related projects/maintenance in SASOL’s Refinery environment. He received his degree in Chemical Engineering from the University of Witwatersrand.
Ahmed Haddou, Sonatrach.
Ahmed Haddou is Head of the Instrumentation and SNCC Department at Maintenance Direction, Sonatrach–LQS. He graduated as an Instrumentation Engineer from the Oran University of Science and Technology (USTO), Algeria in 1990 and obtained a Diploma of DPGS in industrial maintenance and reliability from ENSET in 2010. Ahmed started his professional career in 1991 as Study Engineer in the technical department of GL2Z Sonatrach–LQS. In 2000 he was promoted to Head of Instrumentation Service. In 2006 he was transferred to the Maintenance Direction Sonatrach–LQS, and in 2007 he worked in the Reporting Department until 2010. Ahmed is a member of the Honeywell Users’ Group EMEA Steering Committee.

Lukas Havlicek, United Energy a.s
Lukas Havlicek joined United Energy a.s. in 2001 to work in their Komorany heating plant, firstly as a Process Control Engineer and then from 2008 onwards in his current position of Senior Process Control Engineer. Previously he worked for ČEZ a.s. in their Tusimice II power plant as turbine and boiler operator. Lukas studied Power Engineering at the University of West Bohemia, Pilsen, Czech Republic. He has completed training courses on both Honeywell Experion PKS and Siemens PCS7 systems.

Paul Hodge, Honeywell
Paul Hodge is the global product manager responsible for Virtualization and OPC. He is responsible for setting the product roadmap for his portfolio along with marketing literature, pricing and packaging. Paul has been with Honeywell for 18 years and started his career in the Honeywell service organization. During this time he has had experience with Experion, TPS, PlantScape, and SCAN3000 systems along with field instrumentation. Paul has particular interest and experience in virtualization and enjoys promoting and discovering new ways that virtualization can help solve problems for the industrial control industry. He holds an associate diploma in electrical engineering and is based in Sydney, Australia.

David Humphrey, ARC
David Humphrey is Director of Research, Europe at the ARC Advisory Group. He is part of the automation consulting team at ARC covering manufacturing topics in Europe and is located in ARC’s offices in Germany. In addition, he is a member of ARC’s Hybrid Manufacturing, Packaging and Industrial Networking teams.

Karl Huthmacher, Shell Deutschland Oil GmbH.
Karl Huthmacher is team leader of the DCS/PLC group and the PCD Security and SCADA group at the Shell Deutschland Oil Site in Rhineland, Germany. Karl was the local project leader for the Process Control Domain security project at the Rhineland site.
Marcin Hynek, Grupa Lotos S.A.
Marcin Hynek is advanced process control (APC) team manager at Grupa Lotos. He currently leads a team of APC engineers that maintain and monitor existing APC and simulation applications. His team is also responsible for blending optimisation and new APC projects. He started at Grupa Lotos in the oil department where he was responsible for optimising process throughput and troubleshooting. Prior to joining Grupa Lotos he worked for Honeywell as APC senior engineer in Warsaw, Poland. He was responsible for oil, petrochemical and chemical projects in Central and Eastern Europe with a strong focus on APC and optimisation. In addition he also provided technical support for Honeywell customers for Experion PKS and LCN upgrades. He also spent one year at the IMPULS Company in Gdansk, Poland as a chemistry technologist responsible for new research projects and optimising plant operation and production. He has a Master of Science degree in chemical engineering from the Technical University of Gdansk with specialization in polymer chemistry and technology.

Heinz Janiec, Shell
Heinz Janiec works for Shell GmbH in Germany. He is the group leader responsible for DCS, PLC, ALN and telecom systems at the Shell refinery in Wesseling, Germany. Heinz studied electrical engineering at the University of Hagen in Germany. Heinz is a EMEA HUG Steering Committee member.

Keith Johnson, Marathon Oil
Keith Johnson has worked for Marathon Oil in the UK for the past 4 years as an Instrumentation, Controls and Electrical Engineer in both operational and project engineering roles supporting the Brae Field assets. Prior to working for Marathon Oil Keith worked for a year for Scottish and Southern Energy as an Electrical Power Engineer after having worked in the Electronics Engineering research group at the University of Aberdeen focusing on Optics, Lasers and Machine Vision Systems. Keith holds a Master of Engineering in Electrical and Electronic Engineering and a B.A. in Business and Management, both from the University of Aberdeen, and is currently studying for degrees in Chemical Engineering from the University of Strathclyde and Economics from the London School of Economics.

Romano Karlovi, INA Rijeka Refinery
Romano Karlovi is currently working in the Automation Department of INA.d.d. to implement the PI system in the Rijeka Refinery. He is responsible for connections to the DCS, process network security improvements, and field instrumentation upgrades. He is also a team member for the relocation of Honeywell control systems from local control rooms to a central control room. Romano is a graduate electrical engineer from the Faculty of Engineering in Rijeka, and has completed training sessions at the Osisoft training center, Cisco networking academy, Emerson training center and the Honeywell Process Automation College.
Rick Kaun, Honeywell
Rick Kaun leads Honeywell’s Matrikon industrial security and compliance group, which has implemented over 50 sizable cyber security projects in the last 10 years around the world for a variety of industry verticals. Past projects range from consulting projects such as cyber security audits, infrastructure design, procurement and deployment to process and procedure development to training and ongoing support. Rick is a frequent lecturer and participant in a number of industrial cyber security initiatives. Most notable is his status as a voting member of the Control Systems Security Working Group for NERC, founding member of the NPRA cyber security committee, as well as a supporting member of the ISA SP99. Rick has also been published in a number of industry magazines on the topic of cyber security and NERC CIP compliance.

Rosen Krastev, Honeywell
Rosen Krastev is a consultant specialist in Wireless and he is Automation College trainer. Before joining Honeywell he spend 12 years in the Bulgarian National Gas Transport and Storage Company. Here he implemented and supervised remote wireless monitoring and control projects using various radio technologies. Rosen joined Honeywell in 2008 as a consultant for OneWireless projects in EMEA, with responsibilities including business development, site surveys, engineering design, implementation, technical support and consultancy. He graduated in Communication and Automation Systems from the Todor Kableshkov University, Sofia, Bulgaria.

Ananthapadmanabha Krishnamurthy, Honeywell
Ananthapadmanabha Krishnamurthy is an Associate System Engineer in the Process Solutions Department in Honeywell Technology Solutions, India. He works for the TPS UIS enhancements. Ananthapadmanabha has worked in this team for over four and half years. Before joining TPS development in 2008, he worked as a DCS project engineer. At present he is working on implementation of TPS UIS R17 enhancements.

Keith Landells, BP Oil International
Keith has been with BP since 1985 and is currently the team leader for the central Automation group responsible for supporting BP’s refineries worldwide. He has previously held roles including operations supervision and process engineering support – but increasingly DCS and process control-focused work at BP refining and petrochemicals sites. During his career he has focused in particular on advanced controls and optimisation, DCS configuration and HMI, linkages between the control and production planning world and refinery-wide information systems. Keith is a Chartered Engineer, having graduated in 1985 with a Masters in Chemical Engineering from the University of Nottingham, UK.

Daren Lewis, Honeywell
Daren Lewis is the Global Leader for After Market Services in Advanced Solutions and responsible for delivering lifecycle service programs for advanced applications. He has worked in the process and control industries for 30 years and his experience in advanced application delivery spans sales, business development, project management, application design, project implementation, and after market services. Daren joined Honeywell in 1998 initially as the operations manager for the Training Simulation business in EMEA. After becoming a Six Sigma Black Belt, he went on to lead the Advanced Process Control business in EMEA and then established and grew the After Market Services business in EMEA across all the Advanced Solutions product lines. He has now taken on the global responsibility for After Market Services tasked with delivering exceptional support services that extend and sustain the benefits our customers derive from their advanced applications.
Michele Loseto, Honeywell
Michele Loseto has over 15 years’ experience in conceptualizing, developing, evaluating, implementing and supporting Digital Oil Field enabling technologies and solutions worldwide, with a focus on Upstream Oil & Gas. He is currently a Solution Manager in Advanced Solutions for the Business Performance area, working closely with business and sales teams to ensure that AS offerings satisfies current and future market requirements, and conceptualizing solution offerings to meet customer requirements. He joined Matrikon in 2008 as a senior engineer for the Well Performance Monitor solution, and has had various roles ranging from project manager to sales consultant. Prior to this he was employed by a company developing/marketing novel automation technologies for the oil and utility industries. He also worked for 6 years in a national oil company developing, field testing and supporting the massification of technology to achieve operational excellence. Michele holds degrees in Electronic Engineering and Business Administration.

Helle Manger, Noretyl A/S
Helle Manger is the discipline lead for Instrumentation and Automation within the Maintenance Department of Noretyl. She joined Noretyl in 2007 and is involved in daily maintenance tasks, smaller modifications, major upgrade projects and long-term strategies for all automation activities in the plant. Helle has a degree in Electrical and Electronic Engineering from the University of Surrey, UK, and has experience in instrumentation and control systems engineering.

Mario Macías Montaño, Repsol
Mario Macías Montaño is an advanced process control engineer for Repsol in Madrid, Spain. He previously worked as an instrumentation engineer in the Repsol La Coruña refinery for five years. He holds a degree in Chemical Engineering and a postgraduate degree in Instrumentation and Control from ISA.

Don Morrison, Honeywell
Don Morrison is a Senior Marketing Manager at HPS, responsible for the Process Performance Solutions area. Located in Cincinnati, Ohio, he is responsible for leading the product marketing team as well as providing marketing and business support for applications in the Process Optimization, Blending & Movement Automation, Asset Management, and Simulation areas. Don has been with Honeywell for 13 years in roles including project implementation of Profit Suite control and optimization solutions, as well as various product and solution management roles in the marketing organization. Prior to joining Honeywell, Don was involved in process design, process operations and process control engineering in the refining and petrochemical industries. Don holds a Bachelor of Science in Chemical Engineering from Purdue University.
Chris Morse, Honeywell
Chris Morse is product marketing manager for batch solutions. He has 19 years experience in batch automation in various roles including engineering, sales and marketing. He has experience on a number of different product platforms. He is aware of the complexity of issues arising in the definition, implementation and lifecycle management of a batch automation system and how Honeywell products can be utilized to improve business results.

Dimitris Moutzouris-Lygeros, Motor Oil Hellas
Originally a chemical engineer, Dimitris Moutzouris-Lygeros has worked in computer technology since 1982. He received his first Microsoft Certifications (MCP, MCSE) in NT4.0 last century, worked as a network administrator, and participated in many project designs and implementations of computer networks. From 2000 he has involved with IT security. Since 1992 he has worked in Motor Oil (Hellas), firstly as a chemical engineer and then from 2000 in the DCS section as network and security administrator. He participates in many IT security auditing cases such as CISA (ISO 27000 certified by IRCA Organization). He participates as a speaker in many IT security conferences and is a member of TEE (Technical Chamber of Greece); ISACA; Education Committee of ISACA Athens Chapter; and the Hellenic Institute of Informatics.

Angel Nedelchev, LUKOIL NEFTOCHIM BURGAS Refinery
Angel Nedelchev is a senior process engineer and APC team manager in the Chief Process Engineer Department of LUKOIL NEFTOCHIM BURGAS Refinery. He works on crude oil characterization, refinery distillation process optimization and visbreaking process optimization. He is responsible for maintenance and monitoring of existing APC systems and new APC projects. He holds a Master’s degree in downstream petroleum engineering from Burgas University, Bulgaria. He has a Master of Business Administration degree from Dublin Business School, Ireland.

Salahudheen Ottayil, NATPET
Salahudheen Ottayil has been with NATPET since 2006 working as an Advanced Optimization Engineer with the Process Engineering Department. He handles projects related to testing of new software, equipment, and basic and advanced control in different units in addition to the Operator Training Simulator system. He is the Project Leader for OTS and APC Projects in the company. He has a Chemical Engineering degree from the University of Calicut in India. His prior experience includes roles in Process Engineering support to Plant Operations and Process Control.
**Peter Overgaauw, Honeywell**
Since 2002 Peter Overgaauw has been working as an EMEA systems consultant for Experion, specializing in overall communication technologies with a special interest in HART, Foundation Fieldbus and related tools for device and asset management. He is involved in very large Foundation Fieldbus project implementations. During his 20 years at Honeywell, he has worked with Honeywell control systems such as TDC 2000, TDC 3000, TPS, PlantScape and Experion, as well as field instruments. He is based in the Netherlands.

**Tomáš Pavlík, Slovnaft Refinery**
Tomáš Pavlík is Process Automation Engineer at Slovnaft Refinery in Bratislava, Slovakia. He is responsible for APC and OTS at the FCC unit. He is currently coordinating the FCC APC revamp project and takes part in Reformer APC and Residual Hydrocracker OTS projects. He is also involved in process simulation tasks. Tomáš has a master’s degree in chemical engineering from the Slovak University of Technology in Bratislava.

**Gary Peacock, Honeywell**
Gary Peacock is Global Solutions Marketing Manager for Honeywell Advanced Solutions, focusing on Asset Management and Asset Reliability across all industries and geographies. Gary has global operational and business experience within the metallurgical, specialty chemical and electronic industries, having worked with several leading providers of integrated engineered solutions. He holds a Master’s Degree in international marketing and knowledge management. He is currently based in Manchester, UK.

**Luigi Pedone, SAIPEM**
Luigi Pedone is Lead Engineer for Advanced and Supervisory Applications in SAIPEM. He is in charge of project management for OTS, APC and MES applications managed by Saipem during the EPC phase. Before joining Saipem in 2005, he worked as software engineer in OTS and MES projects.

**Krisztián Poór, MOL**
Krisztián Poór is a process automation expert at MOL Danube Refinery in Százhalombatta, Hungary. He is responsible for control engineering related projects, developments and reconstructions. Krisztián has significant work experience in advanced process control applications such as energy monitoring, alarm management, control performance monitoring and APC. He joined MOL Group in 2002 as a maintenance engineer and gained the necessary skills and experience in DCS, safety systems and PLCs. Krisztián has a BSc degree in electrical engineering with a specialization in process automation. Currently he is studying computer science and engineering at the MSc level at the University of Pannonia.
Attila Poszmik, MOL
Attila Poszmik is the leader of the Process Automation Department of MOL Danube Refinery. He is responsible for the establishment and execution of the automation and industrial IT strategy. He is also responsible for the introduction of advanced solutions for technological units to achieve the required effectiveness, profitability, reliability and safety of the technical equipment. Furthermore he is in charge of the development and analysis of the process control equipment, in regards to efficiency and safety. His additional tasks are the supervision of automation/industrial IT related projects as project owner; fulfilment of PMS and MOC tasks; and FSQA management. He has 17 years’ experience in the oil industry.

Dominique Rouillé, ExxonMobil Chemical.
Dominique Rouillé is responsible for process control systems at ExxonMobil Chemical France in Notre-Dame-de-Gravenchon. His responsibilities include maintaining process control systems for six chemical plants, and developing and managing related projects. He joined ExxonMobil Chemical France as a process control systems engineer in 1991. From 2004 to 2007, he was the lead process control systems engineer responsible for the design, engineering, construction and commissioning of migration projects to Experion for two chemical plants, including the revamping of the control rooms. He graduated as a computer engineer from the ENSIIE of Evry in France.

Ulrich Schmitz, Shell Deutschland Oil GmbH
Ulrich Schmitz studied chemical engineering at the Cologne University of Applied Science and graduated with Diploma Engineer and Master of Engineering. Prior to this he was working as an operator in a petrochemical plant. From 2001 to 2005 he was a scientific assistant at the Cologne University of Applied Science and took part in a cooperative doctoral project between the universities of Cologne and Budapest. In 2007 he received his Ph.D. from the Budapest University of Technology and Economics. Since 2005 he has been working as an APC technologist for Shell Deutschland Oil GmbH at the Rhineland Refinery where he is responsible for design, implementation and maintenance of APC applications for hydrocarbon processing, aromatics and oil movement.

John Schofield, Honeywell
John Schofield is a Marketing Manager for Europe, Middle East and Africa for Honeywell Process Solutions. He is responsible for the promotion of Lifecycle Solutions and Services throughout these areas and has a detailed knowledge of all related services and developments. He joined Honeywell in 1988 as an Account Manager and spent four years as UK Service Product Manager. John holds an Aeronautical Engineering degree from Imperial College in London.

Thamarai Nagarajan Selvam, DUSUP
Thamarai Selvam Nagarajan is a Control Systems Engineer at the Dubai Supply Authority Gas Control Station in Dubai, United Arab Emirates. He serves as the System Administrator for the Experion DCS at the Gas Control Station. He also plays a key role in planning strategies for DCS system design and modification. After working as a panel operator for over 10 years at a leading petrochemical company in India, he joined Dubai Supply Authority in 2004. Since 2006 he has been involved in all the DCS system expansion, commissioning and upgrade activities at the Gas Control Station. Selvam holds a technical university degree in chemistry.
Richard Siereveld, Honeywell.
Richard Siereveld is the Business Manager for Honeywell's Terminal and Tank Gauging Solutions. Richard has been serving the terminal industry for more than 10+ years. He has a bachelor in electrical engineering, is considered to be one of the industry experts on terminal automation and has represented the Netherlands in several national and international committees defining automation standards for storage terminals. Richard is based in Delft, the Netherlands.

Roberto Simeone, Saras
Roberto Simeone has worked for Saras in the Sarroch Refinery in Italy since 1991. Saras Sarroch refines 14 million tons/year of crude oil and is located in Sardinia. Roberto was project coordinator on the engineering team until 2007, and is now responsible for process control. He holds a degree in physics from the University of Cagliari.

Aleksander Spich, Grupa LOTOS
Aleksander Spich is the Control Systems Repairs Planning and Supervision Engineer at Grupa LOTOS, where he has worked since 2005. His current responsibility is to maintain control systems, industrial networks, and manage several projects in this area. He has over 12 years of experience with a variety of DCS, ESD, PLC and SCADA systems. Aleksander started his career in 1998 at International Paper Kwidzyn S.A. in the Instrumentation Department as computer control systems engineer. He studied in Gdańsk at the University of Technology and graduated with a Master of Science degree in engineering, Department of Automatic Control.

S.Srikumar, Honeywell
Srikumar is the Global Market development leader for Honeywell Process Solutions - Safety, Fire and Gas and Industrial Security solutions. Srikumar is a TUV certified functional safety engineer and has been working with Honeywell for more than 18 years. He has extensive experience in the field of automation industry including consultancy, sales, general management and marketing & business development. He holds a degree in electronics engineering and a diploma in business administration.

Paul Stewart, Marathon Oil
Paul has worked for Marathon Oil in Aberdeen for the last 8 Years in both operational support and project engineering roles. In his current role, Paul is the instrumentation and control systems technical authority and lead engineer, responsible for a team of instrument engineers, control system engineers and designers. Prior to working for Marathon, Paul spent 3 Years working for Amerada Hess and 9 Years working for Shell in maintenance and operational support roles both onshore and offshore. Paul has a Bachelor of Engineering Degree in Electrical and Electronic Engineering from the Robert Gordon University in Aberdeen and is currently studying towards a MSc with Kingston University in London.

Piotr Terebieniec, Grupa LOTOS S.A.
Piotr Terebieniec works as a Junior Engineer in the Instrumentation Maintenance Planning & Supervision Department in Grupa LOTOS S.A. His responsibilities are focused on the implementation of IT systems and solutions in the Grupa LOTOS S.A. refinery. He is also responsible for process control network security and design. He has an engineering degree in IT from the State School of Higher Professional Education.
Tibor Szabó, MOL
Tibor Szabó is a Process Automation Expert for the Production Excellence Department at the MOL Százhalombatta Refinery, where he is the OTS System Administrator. He supervises and manages the OTS operation, gives advice to the instructors, and liaises between the instructors and the supplier. Tibor has worked for MOL since 1994 and in the FCC unit for 13 years. Beside OTS system administration he has led the expert team to prepare the E-logbook system and has contributed to the alarm management project in the Danube Refinery. He is a member of the project team to control the energy efficiency and energy consumption all over the downstream segment. Tibor has a bachelor’s degree from the University of Gödöllő.

Robert Taraba, Slovnaft Refinery
Robert Taraba is a Process Automation Engineer at the Slovnaft Refinery in the Slovak Republic. He joined Slovnaft in 2010. He is responsible for implementation of new APC projects, APC maintenance of crude distillation units and hydrocracker units, and for Profit Expert utilization. He is currently responsible for an APC revamp project of the hydrocracker unit and cooperates on an FCC APC revamp project. Robert holds a master’s degree in process automation from the Faculty of Chemical and Food Technology at Slovak University of Technology in Bratislava.

Rodney Tjon, Honeywell
Rodney Tjon has over 15 years of experience in Lifecycle Services and Sales. He joined Honeywell in 1995 as a Service Sales Engineer, and has held various roles associated with Lifecycle Services Solutions (LSS) and Sales. Recently Rodney joined the LSS EMEA Marketing and Sales Support team. In his current role he is the Migration Marketing and Sales Support Leader for EMEA.

Sinan Ugurlu, AKSA
Sinan Ugurlu is the manager of Energy Department at AKSA, Akrilik Kimya Sanayi A.S. in Yalova at Turkey. He is responsible for operation and maintenance of 160 MW installed base Power Plants. He previously worked as operations manager, investment manager and maintenance engineer. He has graduated from the department of Electrical Engineering of the Istanbul Technical University.

Zeljka Ujevic Andrijic, University of Zagreb
Željka is currently the assistant in the Department of Measurements and Process Control at the Faculty of Chemical Engineering and Technology in Zagreb, Croatia. She is a teaching assistant on the undergraduate and graduate programs (programming, process modeling, measurement and process control). From 2009 she is an associate on the project: soft sensors and analyzers for process monitoring and control. Željka received her Master’s and Ph.D in Chemical Engineering from the University of Croatia. Her Ph.D thesis focused on the development of soft sensors for refinery processes.
Jason Urso, Honeywell
Jason has been with Honeywell Process Solutions since 1991, holding several engineering and marketing roles during that time. Jason currently serves as vice president and chief technology officer for HPS and is responsible for design and development of products for the industrial process control industries. His organization of 1,300 engineers and support staff design and develop a broad range of products, including field instrumentation, distributed control, safety and quality measurement systems, as well as advanced solutions that improve efficiency and throughput. Prior to his current assignment, Jason was director of global marketing responsible for the New Construction Project business. He also held the role of director of global migrations marketing, and spent many years in the R&D organization.

Arjen van den Broecke, Honeywell
Arjen is Honeywell’s MES sales leader for EMEA. In this role, he works with clients to design holistic automation solutions that address not only the traditional MES space, but can include all aspects of field-to-ERP automation and integration - leveraging Honeywell’s complete automation portfolio. This includes value chain management, production management, operations management, operator effectiveness, energy efficiency, performance management and IT integration. After a career as a process development engineer in the petrochemical industry, he held various engineering and management positions in an Advanced Process Control company before joining Honeywell in 2001. Arjen has a degree in chemical engineering and computer sciences.

Tyron Vardy, Honeywell
Tyron Vardy has been an Alarm Management Specialist for over 15 years and has designed, developed and implemented Alarm Management solutions on assets around the world. He was heavily involved in the development of the “Powered by Matrikon” Alarm Management portfolio, from Alarm Manager, to Alarm Configuration Management, through to Honeywell’s extensive Advanced Alarm Management services portfolio. As well as speaking at Alarm Management conferences around EMEA, Tyron also sits on the EEMUA 191 Industry Review Group, ensuring that Honeywell’s approach and technology vision align closely with industry standards and best practices.

Anneke Vemer, ExxonMobil
Anneke Vemer has been with ExxonMobil since 1990 and currently coordinates the overall Process Control activities at the Esso Nederland Rotterdam Refinery. Her background includes Process Control Systems, Advanced Control Applications and Operator Training Simulators. Over the years she has worked in ExxonMobil’s USA-based Engineering department, and in Singapore for the start-up of a grassroots project. Anneke has a master’s degree in Applied Physics from the Delft University of Technology in the Netherlands.

Ignace Verhamme, Honeywell
Ignace Verhamme is EMEA solution consultants manager at Honeywell Process Solutions. After working as a process engineer at the Esso Antwerp refinery for three years, Ignace Verhamme joined Honeywell in 1992 as application engineer. During his career with Honeywell he held several positions in project management, technical assistance and marketing before making a move to Tyco in 2001. He returned to Honeywell in 2007 and now manages a team of solution consultants responsible for consultancy and demonstration of Honeywell control systems. He has a Master’s degree in electronics engineering from the University of Ghent.
**Pedro Villar Abeytua, Cepsa**

Pedro Villar Abeytua is an Advanced Control Engineer at the Cepsa La Rábida refinery in Huelva, Spain. He has worked for Cepsa for over 13 years, and is responsible for the DCS and SIS in crude, FCC and petrochemical plants. He is also in charge of project development and application maintenance in the APC area. Pedro has an engineering degree in industrial chemistry from the University of Seville and a master's degree in instrumentation and process control from ISA.

**Clive Walker, Honeywell**

Clive Walker is the Off-sites Solutions Consultant for Europe, Middle East and Africa. He has over twenty five years experience with process automation and control. He has had global responsibility for the Hydrocarbon Processing industry with a number of leading supply companies. His main area of expertise has been the construction of integrated process analytical solutions for unit optimization and final product blending. He is qualified in Electronic Engineering and is also a professional member of the Chartered Institute of Marketing.

**Derek Watson, Mindful Leadership**

Derek runs Mindful Leadership, a UK based, international leadership consultancy, which supports individual and team growth and organisational change across the corporate, private, public and non-profit sectors. Derek and his associates’ hands-on leadership credentials, innovative approach to learning, professional coaching capabilities and international business experience enable them to work effectively with many different corporate cultures in the USA, UK, Europe, Africa, Middle East and Asia. Previously, during a 25 year career in the UK Royal Air Force as a fast jet pilot and squadron commander, Derek led units of up to 2000 people in the air and on the ground: he half-jokingly describes his key-note speaking and media assignments as more nerve racking than flying at 30 Metres above the ground at the speed of sound. Following his RAF career, Derek enjoyed a brief period as a global operations group co-head for Goldman Sachs, running teams in the US, UK, Japan and India before heeding his yearning to start a business. Derek’s pro bono portfolio includes: being a director of a local community non-profit organisation; mentoring entrepreneurs in the Middle East and flying young people in light aircraft with the UK Cadet forces. He has an MBA and an MA.

**Jeroen Wessels, BP**

Jeroen Wessels is an Advanced Control Engineer at the BP Refinery in Rotterdam, the Netherlands. He joined BP in 2011. Currently his main focus is the introduction of a new Experion Human Machine Interface at the Fluid Catalytic Cracking Unit based on HMIWeb. Prior to his employment with BP, Jeroen spent 9 years with Lyondell in Rotterdam, where he participated with the (pre-)commissioning and start-up of a POSM plant. Since the start-up of this plant his main focus was abnormal situation management. Before Lyondell, he spent 17 years with DSM in Geleen, the Netherlands. There he held positions as a Process Control Engineer for a Naphtha Cracker (9 years) and an ABS co-polymer batch plant (8 years).

**Stefan Willenbrecht, Honeywell**

Stefan joined Matrikon in 2008 and since then had various roles within the organization. He started being a project engineer for Matrikon’s Alarm Management and Control Performance Monitor solution. In addition to his role he was responsible for Matrikon’s customer support in Germany. As of 2011 he has been shifting into a advisory role providing Germany’s sales team and customers with in depth knowledge of the various Matrikon solutions which was formalized in late 2011, when Stefan became the solutions consultant focusing on Honeywell’s CPM solution.
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3.0 Demo Room, Floor Plans and Sponsors
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3D immersive visualization technology today can be coupled with process and accident simulation technologies to produce a plant simulator for better visualization of process operations, allowing engineers, DCS and field operators, maintenance crews, and management to view the process environment simultaneously. This presentation discusses the recent partnership of Honeywell Process Solutions and Virtuali's s.r.l to develop a 3D simulation solution to enhance operator training and plant safety and explains MindSafe®, Virtuali's 3-D visualization technology.

MindSafe will be linked to Honeywell's UniSim Operations simulation tool to provide a holistic virtual environment for efficiently designing, analyzing, and verifying plant operations and preparing operations teams for safe, reliable, efficient operations.
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Upper Floor

Main Entrance

General session and break out room

Lower Floor

Main Entrance

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Entrance

Honeywell Scanning and Mobility

Demo Room Touch Screen Floor Plan

MTL Instruments

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3 Demo Room Touch Screen Floor Plan

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http://content.dell.com/us

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MTL Instruments

MTL Instruments is a world leader in the development and supply of system infrastructure products and protection equipment to the Process Industries. Since 1992, MTL and Honeywell have collaborated on key projects and initiatives culminating in MTL being selected as the primary supplier of GI/IS interfaces on the flagship C300 series system. However it does not stop there; with a comprehensive range of Integrated IS, Network Security, Wireless, HMI displays, FOUNDATION Fieldbus and Surge protection solutions, MTL are committed to providing Honeywell and its customers the best in quality, reliability and value.

www.mtl-inst.com

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The Pepperl+Fuchs Process Automation Division exists to provide our global customers with products, services, and solutions that protect and operate process plants in hazardous areas and harsh environments throughout the world. Our mission is to provide the highest possible standards of quality, safety, and reliability in all that we do to ensure that we are “Protecting Your Process”.

We are a partner to the process industry providing a wealth of experience across the full spectrum of hazardous area protection methods, with all products being designed, manufactured and locally supported throughout the world by the company’s dedicated and knowledgeable workforce.

In supplying solutions such as Intrinsic Safety, Signal Conditioning, Fieldbus, Purge, Remote I/O, HMI, and Enclosure solutions we continue to set the benchmark in ensuring the safety of process plants throughout the world.

Since 1945 the foundations of the company have been built on family values of honesty and integrity, coupled with a distinctive spirit of invention and innovation. These values will continue to guide us in the future and ensure we continue to be a technology innovator and market leader in all that we do at Pepperl+Fuchs.

www.pepperl-fuchs.com

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Phoenix Contact offers all ATEX- and SIL-certified industrial connection technology and electrical interfaces for Honeywell controls. Our highlights are a complete system cabling concept for C300, intelligent redundancy power supplies, signal conditioners, the first single-channel FOUNDATION fieldbus barriers, SIL safety relays, terminal blocks and overvoltage protection.

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4.0 Steering Committee, UIS and Customer Advisory Boards
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Honeywell Process Solutions EMEA Users’ Group Charter

Dear EMEA HUG 2012 delegates, the Steering Committee has agreed upon the changes in this text which are highlighted in GREY. The Chairman will seek your approval at the end of the conference.

1. Purpose
The purpose of the Honeywell Europe Middle East and Africa Users Group (hereafter referred to as “the EMEA Users Group”) is to provide end users of Honeywell’s process computers and industrial automation systems a means for the:

- exchange of information between users
- exchange of information with Honeywell about products and services
- input of information to Honeywell for product development

2. Scope
The activities of the EMEA Users Group will encompass all forms of non-proprietary information exchange between users and Honeywell. Ideas, techniques, applications, programs, hardware and systems are all topics within the scope of the EMEA Users Group.

3. Membership
All present Honeywell process computer and industrial automation system end users, prospects, sponsors, distributors and channel partners are eligible to become members of the EMEA Users Group. Parties not meeting this requirement should address their candidature to the Steering Committee of the EMEA Users Group. The EMEA Steering Committee can waive this eligibility rule (by unanimous vote of the EMEA Steering Committee) to accommodate special situations: e.g. to bring in experts from consulting or contracting companies. Waivers are valid for one year and can be renewed. These temporary members have no voting rights and by their presence agree not to use any information obtained through attendance of EMEA Users Group meetings for commercial reasons.

The membership list of the EMEA Users Group will be updated on an ongoing basis by the EMEA Users Group Coordinator, who will also process requests for membership.

4. Meetings
At least one Conference will be held each year. The form, format and content of all Conferences will be determined by the EMEA Steering Committee based on previous feedback from the membership at large. The EMEA Steering Committee, in conjunction with Honeywell Process Solutions Brussels, will organise meeting facilities. Notice of the Conference and meeting details, including the anticipated agenda, will be distributed by the EMEA Users Group Coordinator approximately three months prior to the meeting date.

5. Communication
The EMEA Users Group Coordinator will be responsible for the preparation of a newsletter and its distribution to members. As with all mailings to the membership, the Coordinator will obtain prerequisite approval from the Chairman and Vice-Chairman.

6. Language
The English language will be used in the EMEA Users Group Meetings and communications.
7. EMEA Steering Committee

The EMEA Steering Committee will be the basic policy-making body of the EMEA Users Group. All officers and Workshop chairmen are members. The EMEA Steering Committee will meet separately or in conjunction with the EMEA Users Group Conference as required to execute its responsibilities.

Any member of the EMEA Users Group can nominate himself or herself or another member for appointment to the EMEA Steering Committee. Appointment will be by simple majority of the EMEA Steering Committee. Steering Committee appointments will be for a minimum period of three years and reappointment is permitted without limitation.

The EMEA Steering Committee membership will normally be maintained at a maximum of 15 members. If a significant industry segment is not represented, additional member(s) may be sought to fill the gap in representation. Appointment to the EMEA steering committee of these extra member(s) shall be by majority vote of the EMEA steering committee. Subsequently, when existing members resign who belong to an industry segment already represented on the committee, the vacant positions will not be filled, in order to return the membership to the target of 15.

The EMEA Steering Committee must collectively reflect, through the competence and views of its members, a composite which is broadly representative of the total membership. It is the responsibility of all: the Officers, the current EMEA Steering Committee, the overall membership, to ensure that nominations and appointments maintain this essential balance and breadth of representation on the Committee at all times.

The EMEA Steering Committee is the official channel of communication between the EMEA Users Group and Honeywell, and between the EMEA Users Group and other regional Honeywell Users Groups (e.g. Americas, Asia-Pacific, Australia). This communication includes, but is not limited to, all matters concerning the User Input Sub-Committee (UIS), and the Workshops.

Special responsibilities of the EMEA Steering Committee are to:

- Determine the next meeting time, place and theme
- Appoint new officers
- Define Workshops and appoint chairmen from the EMEA Steering Committee members
- Solicit suggestions for change from the general membership
- Evaluate Workshops for their effectiveness and reorganise or discontinue if necessary
- Define the terms of reference of Workshops
- Organise and conduct Conferences of the EMEA Users Group in conjunction with Honeywell PS Brussels
- Appoint EMEA Steering Committee members
- Appoint a UIS liaison member, from the EMEA Steering Committee members. The liaison members provide a means for UIS leadership to access the agendas of the Steering Committees such that the UIS can periodically make direct reports to the Steering Committees on UIS activities. The other regional Steering Committees have also appointed UIS liaison members. The UIS liaison members act on behalf of their respective Steering Committees on any items needing approval.

EMEA Steering Committee members are expected to:

- Be present at all Steering Committee meetings
- Actively participate in Steering Committee meetings, Workshops and Conferences
- Act as Session Chairmen at Conferences
- Sponsor speakers
- Perform duties requested by the EMEA Steering Committee
8. Local users' groups and steering committees
In order to satisfy local needs, local user meetings may be organized. Those local needs can be: logistic or financial reasons that make it difficult for local users to attend the annual EMEA User Conference.

The EMEA Steering Committee will either organize these meetings or may delegate the organization of these local user meetings to a local Steering Committee.

The EMEA Steering Committee, in conjunction with Honeywell PS, decides on the necessity for a local user meeting.

Local user meetings will use as much as possible the format of the EMEA conference.

The EMEA Steering Committee may create local Steering Committees. The task of local Steering Committees is limited to the organization of local user meetings. Local Steering Committees will inform the EMEA Steering Committee on their activities.

9. Workshops
Workshops will be organised and supervised by the EMEA Steering Committee to study and report on specific areas of interest. This could include, but is not limited to, problem solving and definition of new functionality. Output will be reviewed by the EMEA Steering Committee and communicated to Honeywell and the EMEA Users Group membership. Workshops must collectively reflect, through the competence and views of its members, a composite which is broadly representative of the total membership. Workshop Chairmen will be appointed from EMEA Steering Committee members and will report workshop activities to the Steering Committee.

Workshop Chairmen, as well as any other EMEA Steering Committee or EMEA Users Group members requested by the EMEA Steering Committee to attend meetings as EMEA Users Group representatives, must represent the position and best interests of the EMEA Users Group as outlined in this charter. They should not represent their personal or company's position. In case of doubt they should seek clarification of the EMEA Users Group position from the Chairman or Vice-Chairman.

The EMEA Steering Committee has the responsibility to define, approve and amend the charter for the workshops as required.

10. Officers
Officers will be appointed by the EMEA Steering Committee for the term of one year. A simple majority will be necessary to appoint officers. The EMEA Steering Committee is responsible to provide continuity if an officer can no longer serve.

To ensure that the EMEA Users Group is not unduly influenced by Honeywell participation, no Honeywell employee will be eligible to preside as EMEA Users Group Chairman or Vice-Chairman, but will be eligible to serve on the EMEA Steering Committee.

Duties are summarised below:
Chairman
- Coordinate Steering Committee preparation of the Conference
- Coordinate Steering Committee activities
- Chair Steering Committee and Conferences
- Conduct a short business meeting with the membership at each Conference
- Maintain (together with the Vice-Chairman) a flow of new appointees into the EMEA Steering Committee to ensure continued dynamic and responsive representation of the membership
- Review and approve (together with the Vice-Chairman) mailings to the membership
- Maintain guidelines for the scope and conduct of Steering Committee meetings
Vice-Chairman

- Assume Chairman duties in the event the Chairman is unavailable
- Assume Chairmanship for the following year in order to provide continuity
- Maintain (together with the Chairman) a flow of new appointees into the EMEA Steering Committee to ensure a continued dynamic and responsive representation of the membership

Honeywell Field Representative

- Provide linkage between the field sales organization and the Steering Committee.
- Assist in identifying potential speakers and committee members.
- HPS will provide a permanent member of the committee

Honeywell Executive Sponsor

- Represent Honeywell Management relative to Users Group business.
- Will be present at kick of and closure session of the EMEA HUG and the Steering Committee meetings held at the EMEA HUG venue’s.

Honeywell Coordinator/Director

- Maintain and update membership records
- Assist EMEA Steering Committee in the selection of Conference locations and arrangements
- Provide counsel to the EMEA Steering Committee
- Represent Honeywell’s Management in regards to EMEA Users Group business
- Provide Honeywell’s concurrence of meeting locations and agenda items
- Assist the Chairman and Vice-Chairman as requested
- Be responsible for the publication and distribution of the minutes of the Conference and Steering Committee meetings and other information
- Obtain technical information from the EMEA Steering Committee for periodic publication
- Collect registration fees and act as Treasurer for the EMEA Users Group budget

HPS Brussels will provide a permanent member for this office.

11. Funding

A registration fee will be solicited from users attending the Conference, for the purpose of services related to the activities of the EMEA Users Group. Users who make presentations at the Conference will be exempt from this fee, as will members of the Steering Committees (regional and local). The fee will be determined on a yearly basis by the EMEA Steering Committee. The budget, composed of the registrations fees, will be collected by the EMEA Users Group Coordinator and managed by the EMEA Steering Committee.

12. Voting

When it becomes desirable to ratify changes to the EMEA Users Group Charter, the EMEA Steering Committee will prepare the changes for a membership vote. The topic will appear on the Conference agenda. Each user present will qualify for one vote. A delegate will be chosen to present that vote. A majority of the voting members present will rule.
Customer Input Organisation

The Customer Input Organisation consists of representatives from major industries across geographies served by Honeywell Process Solutions and encompasses a variety of opportunities for customers with installed systems to provide input to Honeywell. The CIO encompasses several avenues for customer input. The User Input Subcommittee (UIS) is a practical mechanism for customers to work with Honeywell on enhancements for currently installed systems, effectiveness of current maintenance and support activities, and suggestions for improvement. A team of customers meets three times a year to provide Honeywell with strategic and tactical feedback on a variety of topics.

Customer Advisory Boards

- Abnormal Situation Management Consortium
- Batch
- Blending Movement and Automation
- Experion
- India
- OptiVision
- POMS
- Power
- Profit Suite
- Quality Control System
- Safety Manager
- Services
- Simulation
- Uniformance
- User Input Subcommittee

For more information on the Customer Input Organisation or any of the advisory boards, please contact karen.oneill@honeywell.com.