2013 Process Analytics Customer Event
Building the future with the proven

Breakout sessions

Answers for industry.
<table>
<thead>
<tr>
<th>Time</th>
<th>General Session Q&amp;A Forum With Technical Experts/ Demo Units</th>
<th>Regulatory Compliance</th>
<th>Process Reliability, Quality &amp; Safety</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>(Atlantis Ballroom 1 &amp; 2)</td>
<td>(Atlantis Ballroom 3)</td>
<td>(Atlantis Ballroom 4)</td>
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<tr>
<td>8:45 AM - 9:00 AM</td>
<td>Welcoming Remarks</td>
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<td></td>
<td>Safety Minute</td>
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<tr>
<td>9:00 AM - 10:00 AM</td>
<td>Keynote Speech: Technology Developments That Enhance Process Optimization While Achieving Lower Costs</td>
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<tr>
<td>10:00 AM - 10:15 AM</td>
<td>Siemens Process Analytics News &amp; Updates</td>
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<tr>
<td>10:15 AM - 10:30 AM</td>
<td>Break</td>
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<td>Q&amp;A Forum With Technical Experts: Customer Support Engineers, System Integration Engineers, Application Developers, Project Managers, Research &amp; Development, Quality. (Lunch 12:00 PM - 1:00 PM)</td>
<td>Update On Various Regulatory Processes, Background &amp; Measurement Experience - EPA Update 40CFR60 Subpart Ja – Flare</td>
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<td>Break/Q&amp;A</td>
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<tr>
<td>2:00 PM - 2:45 PM</td>
<td>On site demo units: CEMS, Modular, Maxum II, selected CGA, Laser, Total Sulfur Maxum. (Lunch 12:00 PM - 1:00 PM)</td>
<td>Update On Various Regulatory Processes, Background &amp; Measurement Experience - EPA Update 40CFR60 Subpart Ja – Flare</td>
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<td>3:45 PM - 4:00 PM</td>
<td>Break/Q&amp;A</td>
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<td>4:00 PM - 4:30 PM</td>
<td>Break/Q&amp;A</td>
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<td>4:30 PM - 7:00 PM Networking Mixer (Hotel Bar)</td>
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- General Session
- Regulatory Compliance
- Process Reliability, Quality & Safety
- Process Control For Efficiency Improvements & Cost Reduction
- Maintenance & Training
- Misc.
- Q&A: Panel With Technical Experts

* Repeat sessions
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<tr>
<th>Time</th>
<th>Process Control For Efficiency Improvements &amp; Cost Reduction (Atlantis Ballroom 5)</th>
<th>Maintenance And Training (Atlantis Ballroom 1)</th>
<th>Misc: (Atlantis Ballroom 6)</th>
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Session Descriptions By Topic

Breakout Sessions

General Session

Keynote Speaker:
Dr. Melvin V. Koch

Technology Developments That Enhance Process Optimization While Achieving Lower Costs
In his keynote, Dr. Koch will describe technology developments that enhance process optimization while achieving lower costs. He will discuss the important role process analytical technology (PAT) plays in this objective.

Dr. Melvin V. Koch is Principal Scientist at the Center for Process Analysis and Control (CPAC) and Affiliate Professor of Chemical Engineering at the University of Washington in Seattle. Dr. Koch previously worked for The Dow Chemical Company in process research and analytical chemistry, achieving the level of Global Director of Analytical Sciences. He is active in coordinating developments in the field of process analytical technology (PAT), for the purpose of process optimization, between industry, government laboratories, and academia. Dr. Koch has served on the US FDA Advisory Committee for pharmaceutical Sciences and on advisory/review committees of several US National Laboratories.

Questions And Answers Forum With Technical Experts

Cindy Blasingame, Dean Davis, James Dorsey, Brad Fryer, Robert Garcia, Shelley Garrett, Lance Harrison, Jeff Henry, Christoph Klawun, Jeff Murray, Danny Romine, Steve Trimble and Tom Williams will be available onsite to answer your technical questions related to Process Analytics solution offering: Gas Chromatographs, Continuous Gas Analyzers, In-Situ Laser Analytics, System Integration, Sample Systems, and Analyzer System Management.

We will also have CEMS, Maxum Modular, Maxum edition II, Continuous Gas Analyzers, Laser and Total Sulfur Maxum demo units onsite.

Regulatory Compliance

Jerry Combs, PhD
Update On Various Regulatory Processes, Background & Measurement Experience - EPA Update 40CFR60 Subpart Ja – Flare
Hear the latest environmental updates regarding the 40CFR60, Subpart Ja regulation and other regulatory requirements. Discussions will include information on accurate interpretation of the policies that require current and future compliance and best practice sharing on implemented measurement solutions.

Steve Trimble
Siemens Technology Update For Subpart Ja Regulatory Compliance
Introduction to Siemens practical PGC solutions regarding TS, BTU, H2S or combination, ranges, performance, maintenance and installation considerations.

Warren Dean
Standardized Continuous Emissions Monitoring Systems (CEMS)
The Standard CEMS is a low cost emissions monitoring package designed to operate in a general purpose, environmentally controlled shelter or cabinet. The targeted markets are NOx reduction sites at Refining, Hydrocarbon Processing and Chemical Plants. The standard monitoring requirements are based on the US EPA 1990 Clean Air Act as detailed in 40 CFR-Part 60, as well as local and state requirements. Special options are available for Part 75 monitoring upon request. The basic system is designed to monitor predefined ranges of nitrogen oxides, carbon monoxide and oxygen in process boilers and furnaces.

Process Reliability, Quality And Safety

Dean Davis, PhD
The Importance Of User Involvement In Process Analytics Quality
Learn more about our standard quality policies and procedures. Siemens quality personnel invites our customers for dialogue on quality topics such as best practice on equipment transport for optimal start ups and part replacement policies. Join the discussion on latest quality statistics, the critical customer role in our quality process and beneficial tools that allow our product users to report any observed functionality issues.

Brad Fryer
Safety Standards: Standardized Solutions In System Integration
Various topics in safety design for Process Analyzer System Integration including: shelters, sample systems/utility piping, alarm systems/gas detection, etc. In this session we will review code/standard requirements, areas classifications, chemicals, and potential hazardous conditions inside process analyzer shelters. Using this information, we will define typical analyzer shelter alarm systems.
Session Descriptions By Topic

Process Reliability, Quality And Safety (continued)

Cindy Blasingame
Smother, Faster, More Cost Effective Project Execution
What are global standards for excellence in project execution? Why are these important and how has Siemens implemented project management to the mutual benefit of Siemens and our Customers? This session offers educational focus on PM@Siemens methodology and why it’s working for our System Integration offering.

Process Control For Efficiency Improvements & Cost Reduction

Al Kania
Jeff Henry
GC Evolution: GC Hardware And Software Enhancements & Customer Benefit
To protect customer investments Siemens GC technology has been developed and evolved to eliminate forced product migration, allowing individual equipment components to be enhanced and improved without abandoning entire product platforms. The discussion will focus on current and future hardware and software functionality. Learn about the ability to upgrade existing products with new component features.

Michael Hoffman
ASM - Analyzer System Management
Analyzer System Management (ASM) is a tool that operates a wide range of analyzers, proving and documenting the reliability of installed analytical systems. The ASM standardizes the evaluation of analyzer performance providing information to enhance maintenance, monitoring, and control. Join us to learn how to improve the availability of information to provide consistent data for the accuracy of analyzers, benchmarking referencing KPI’s and performance reporting, evaluating the potential to extend the number of analyzers inspected by an analyzer technician, and the minimization of maintenance work.

Ed Rossino
CGA Applications For HPI/CPI
The Series 6 Continuous Gas Analyzer product line is designed for use in HPI/CPI applications. Offering includes industrial sensor technologies such as NDIR, UVRAS, Paramagnetic, TCD, FID, and CLD that are well suited for measuring gas components such as CO, CO₂, SO₂, NOx, O₂, H₂, Ethylene, Propylene and many other components. Learn about the broad application capability for process control & efficiency, product purity, safety control schemes, and environmental CEMS application for stack gas monitoring.

Monte Schwarz
Communication Needs Between Instrumentation And Control: Planning For Future Needs
Siemens Gas Chromatographs can transfer measured results and status information to process control systems, operator panels and printers during operation. Chromatograph, operator panel and control system use special electronic interfaces:

Electrical Connection and Control of Communication and Language Rules to control the communication. MODBUS is a rule for controlling data transfer between two computer systems – a transmission protocol. In this session information will be offered on simplified and cost effective analyzer communication with your Distributive Control System (DCS). How to achieve an effective, secure network via Modbus TCP.

Maintenance And Training

Lance Harrison
Field Service & Phone Support Perspective: Proactive Maintenance
Learn about the most commonly observed plant issues and resolution for proactive equipment maintenance. Join us for a dialogue with experienced field service technicians.

Bob Farmer
Tutorial: Maxum GC Portal Workstation Software Training - General Update And Training On New Developments
Join us to learn about the latest upgrades in Gas Chromatograph software, the integration of System Manager and EZ-Chrom software packages to a new single software pack - GC Portal. Learn about capabilities and how existing Maxum GC users can easily upgrade to the Portal software. This will be a tutorial on software changes and most recent upgrades.

Michael Hoffman
Adding Value With Sample Conditioning System Smart Components
The focus of the discussion is on troubleshooting a sample system, local or remote, based on the analytical information available using smart components in adding value to the reliability of the measurement. Most maintenance and reliability concerns may be associated with sample conditioning systems. The advantages in reliability in data and reduction of maintenance efforts when up scaling a sample conditioning system with process feedback using smart components will be discussed.

Rick Brackett
Remote Performance Inspection Case Study
Remote Performance Inspection services can monitor conditions and vital signs of analytical products and systems anywhere on the globe. Remote services use existing and cutting-edge technologies to support field engineers, irrespective of location. The internet and advances in communications and encryption techniques have contributed to the availability of remote services. Remote services have become increasingly important as companies try to offset rising cost pressures and the availability of facilities becomes more crucial. Remote monitoring of conditions can detect developing faults, allowing maintenance to take place when needed, rather than at fixed intervals. Please join us to learn how Siemens provides these services today.
Ulrich Gokeler
**Trace Analysis In High Purity Gas**
Whether in inert gas or hydrocarbons and chemicals, there is an increased requirement for high purity product, hence the need for trace analysis. The challenges and examples are discussed for such analysis in high purity inert gas, hydrocarbons and chemicals utilizing Process Gas Chromatography and Gas Analyzers.

Glen Irving
**Siemens Academic Partnerships For Sustainability Of Careers In Process Analytics Technology**
Siemens offers support to many educational institutions for sustained support of technical skills for the Process Analytics Technology. This executive overview will provide insight into formed academic partnerships and the value of vendor support for the long term transfer of industrial knowledge.

Ed Rossino
**Continuous Gas Analyzer Applications For Biogas / Landfill Application**
Need a simple integrated system solution for biogas or landfill gas monitoring? Siemens has the answer for industry! SET BGA (Biogas Analyzer System) is a complete integrated system for continuous online measurement of biogas or landfill gas, utilizing the time proven Ultramat 23 NDIR analyzer system. An economical system option, BGA is capable of simultaneously measuring up to 4 gas components (CH₄, CO₂, O₂, H₂S).

For more information or questions on these breakout sessions, please contact us by email at processanalyticsevents.industry@siemens.com.

Visit our website: usa.siemens.com/pacustomerevent for updates on the event and breakout sessions.

Jason McCoy
**Tutorial: Replacement/Installation Of Maxum GC Door; Use Of Digital Touch Screen Display/Maxum CIM & SYSCON Upgrade**
Join us to learn about the latest tips and tricks on how to upgrade to the new color touch screen door technology.

Ed Rossino
**Continuous Gas Analyzer Application For Air Separation Market**
Need an accurate and reliable CO₂ analyzer for the Air Separation Market? Siemens Ultramat 6 analyzer is up to the task. In most Air Separation Plants CO₂ is generally an unwanted impurity in ambient air feed, and therefore removed by refrigeration prior to the beginning of the process. Measurements are required to monitor the efficiency of the CO₂ removal. Further on in the process the final product streams must be monitored for traces of CO₂ to assure product quality and compliance with the specification. Join us to learn how Siemens Ultramat 6 gas analyzer operates according to the NDIR two-beam alternating light principle and measures CO₂ in a highly selective absorption band.

Warren Dean
**Tunable Diode Laser (TDL) Applications For HPI/CPI Industries**
Siemens family of Tunable Diode Laser (TDL) products is designed for use in HPI/CPI applications. The TDL’s are suitable for measuring a number of gases such as: O₂ for safety, inerting, process control and combustion efficiency, CO, CO₂ for safety, process control, and combustion efficiency, NH₃, HF, HCl for emission monitoring.

The basic principal of measuring the target gases with a TDL will be presented along with user benefits to the HPI/CPI.