EXCHANGE TODAY

CONTROL ENGINEERING • Friday, September 14, 2007 • Emerson Global Users Exchange

Awards Luncheon: 'Best in Conference' Presentations

Food was not the only outstanding ingredient at Thursday's Users Group Exchange luncheon. The meal was complemented by the recognition of 15 "Best in Conference" presentations, as well as the awarding of a number of door prizes. Ergon Refining's Steve Elwart, a member of the Emerson Global Users Exchange Board of Directors, presided over the ceremonies, which also recognized outgoing members of the Exchange Board.

Presenting the awards, Elwart noted that selecting the winners involved considerable effort by a large committee. A complete list of those honored may be found at the end of this article.

Following the presentation of the plaques, Elwart acknowledged the contributions of outgoing board of directors' members Kathleen Hrdlicka, Emerson Process Management; James Cook, Degussa; Stuart Harris, Emerson Process Management; and Chairman Marty Edwards, Idaho National Laboratory, Department of Homeland Security. Edwards' service continues as he moves to the Exchange Advisory Board.

In addition, a number of attendees left the lunch both full and happy thanks to the awarding of a variety of door prizes from a random drawing. Prizes included four digital cameras, four Apple iPods, three digital photo frames, and three portable DVD players. Six Apple iPods from an exhibit hall activity drawing were also given out.

The following presentations were selected as "Best in Conference" for its track by the 2007 Emerson Global Users Exchange:

- Conversion from Mod 5 to DeltaV Controls at Huntsman Freeport by Ashok Dasqupta, Huntsman Corp.
- Completing the Digital Bus Journey by Gary Tingley, Portland General Electric and John Blaney, Emerson Process Management, Power & Water Solutions.
- Advanced Automation Technology for New Coal-fired Power Plants by Joyce Dasch, Emerson Process Management, Power & Water Solutions
- Cyber Security and the Control Domain—Is there a Balance? By Graham Speake, BP, and Chuck Miller, Emerson Process Management
- Rosemount 8714i Calibration Verification Reduces Maintenance Time and Cost for Meter Verification by Trever Ball, Emerson Process Management, Rosemount Flow
- Best Practice Temperature

Continued on page 4

1

2

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(1) Greg Stephens congratulates Chuck Miller as he accepts the award for his cyber security presentation. (2) From left: Dave Imming, Sergio Diaz, Ryan Showers, and Greg Stephens received an award for *How to Successfully Complete a DeltaV On-Line Upgrade (with a little help).* (3) Steve Elwart presides over lunchtime ceremonies. (4) Jeff Kerker accepts his award from Greg Stephens. (5) Marty Edwards is congratulated by Dave Imming and Greg Stephens for his service as chairman of the Exchange Board of Directors.

NEWS BRIEFS

WIRELESS APPLICATION CONTEST

If you find a creative way to use Emerson's SmartWireless solution, you could win $2,500 and present your winning story at next year's Exchange. Entries must deploy at least five SmartWireless instruments, a gateway and integrate with PlantWeb network. For full contest details, visit www.emersonprocess.com/smartwireless/InnovatorsContest.asp.

NEW FOUNDATION FIELDBUS PODCAST

The Fieldbus Foundation and *Control Engineering* have released a new podcast with four end-user application stories. Foundation marketing director Bill Tatum interviews FOUNDATION Fieldbus users, which include two chemical manufacturers, a water treatment plant, and a zoo. Listen at www.controleng.com/fieldbuspodcast.

PLANTWEB FEEDBACK

Did you ever wonder if Emerson engineers really do anything with your product comments? Read how PlantWeb has incorporated your suggestions. See page 3.

JOIN US NEXT YEAR

Get out your 2008 calendar now. Set aside time to attend the 2008 Emerson Global Users Exchange, September 29 to October 3, in Washington, D.C.

THANKS FOR READING

We hope you enjoyed the 2007 Exchange Today. Your correspondents included Jeanine Katzel, Katie Cadera and Peter Welander in Grapevine, TX; and Renee Robbins and Nikki Golden in the *Control Engineering* offices in Oak Brook, IL. Special thanks to Frances Baetiong, our art director who put it all together every night.

EMERSON GLOBAL USERS EXCHANGE

September 14, 2007

Conference attendees take a moment during a session break to recharge with refreshments (left) and to catch up on what's going on back at the plant with a visit to the cyber café.

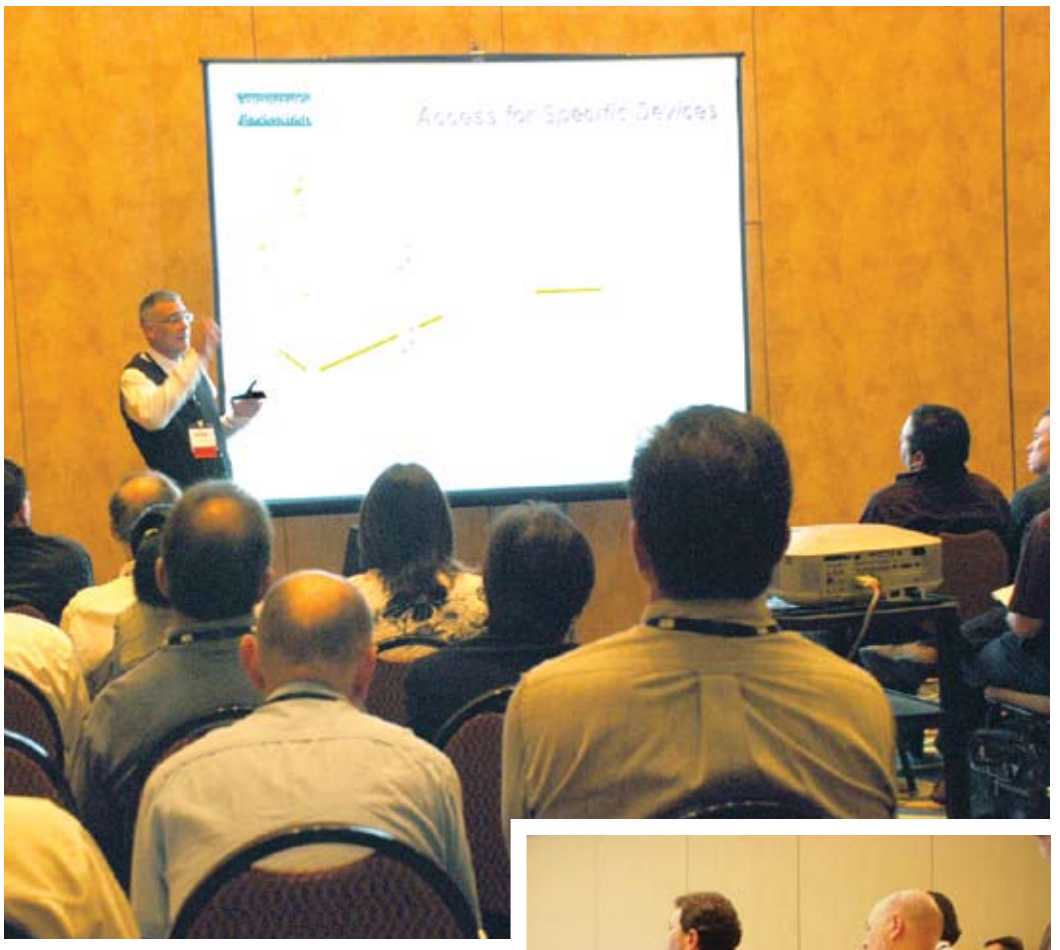
Emerson's Tim Cunningham teaches attendees how to optimize the life cycle benefits of their Coriolis meters in this Micro Motion short course that included hands-on demos and information on best practices for Coriolis installation, start-up, diagnostics, and meter verification.

EMERSON GLOBAL USERS EXCHANGE

Be Sure to visit the Emerson Exchange Blog: www.controleng.com/pillartopost

September 14, 2007

Above: Puzzlers try to unlock the special message hidden in the clues. Below: The people who make it happen: The Emerson Global Users Exchange runs smoothly thanks to the efforts of Stacy Cloud (left) and Sharon Moody. Their careful attention to the details ensures that all activities roll out as planned.



Above: Mark Cooksley of Hirschmann Automation and Control, an Emerson Alliance Partner, puts network security into perspective, focusing on such measures as anti-virus protection. Right: Wireless continues to capture the interest of attendees as overflow crowds squeeze into the DeltaV wireless product update session to hear about the latest developments designed to ensure the maximum benefit of wireless technology is realized in plant automation strategy.

PlantWeb Feedback: Submit your Ideas, Watch Them Grow, Win an LCD TV

A "Top Ten Enhancement Program," developed by Emerson Process Management about two years ago, invites Emerson Global Users Exchange members to participate directly in the company's product development plans. Emerson thrives on ideas, suggestions, and feedback from its customers to enhance its product offerings, and to develop new products—thereby adding value to its customers. Therefore, each year users are asked to submit PlantWeb product enhancements suggestions. Exchange members are then asked to vote for the 10 PlantWeb suggestions they would most like to see Emerson include in upcoming product releases. Here's how the PlantWeb Feedback Tool works. Members submit PlantWeb feedback suggestions online until September 28, 2007. Use the Cyber Café at the Exchange or follow the link on the Emerson Exchange Website at www.EmersonExchange.org.

The Exchange Board will clarify suggestions as required, working directly with the submitter, if necessary. Members will vote on the suggestions between October 15 and 29, 2007. The top vote-getters will be consolidated into the new "Top Ten" list. The Exchange Board will provide feedback to users on the status of approved enhancements. In addition, one participant will win a 32-in. LCD flat panel TV for the effort!

100s of Suggestions

The Emerson Global Users Exchange Board of Directors and the PlantWeb Leadership Team developed the initiative after recognizing that no formal feedback process existed for collecting ideas, suggestions, and enhancements that cross multiple divisions within Emerson. Last year, more than 100 suggestions were received, 92 of which were truly PlantWeb related.

Of the top 10 suggestions submitted last year, seven are currently planned, one is complete, one will be partially implemented and one is not planned for the immediate future, reports Mark Garnett, chairman of the PlantWeb Feedback program. "This equates to at least an 80% success rate, which is truly outstanding for our inaugural year," said Garnett.

The top vote-getter in 2006 asked that Emerson "do away with licensing for diagnostic DST's"—hence, do away with having customers incur a charge for these DST's. This enhancement becomes a reality in Version 11 DeltaV.

"Every member of the Emerson Exchange will have an equal opportunity to submit any product or system enhancement suggestion or idea," said Garnett. "Members will then vote, thereby selecting the 10 best suggestions, which will become the 'Top Ten' list. The Board will then present the suggestions to the Leadership Team, and work diligently with them to ensure that as many suggestions and or ideas as possible actually become reality."

A BP floating production, storage, and offloading vessel will get FieldConnex fieldbus interface solutions from Pepperl+Fuchs and Emerson.

NEW PRODUCT

P+F tapped as Fieldbus Interface Partner for Offshore Oil Fields Project

Pepperl + Fuchs has won a contract as fieldbus interface supplier, partnering with Emerson Process Management, to automate the BP floating production, storage, and offloading vessel that will develop the Greater Plutonio Deepwater offshore oil fields of Angola. Emerson will implement the Pepperl + Fuchs fieldbus installation system FieldConnex. FieldConnex is a range of FOUNDATION fieldbus interface solutions that includes FieldBarrier, a unique fieldbus distribution module that combines the three essential physical layer functions of distribution, short circuit limitation, and intrinsically safe explosion protection in one product. For this project, FieldConnex products were supplied mounted into customized stainless steel enclosures and pre-wired according to client specifications. FieldConnex will interface the field measurement instrumentation to Emerson's DeltaV digital automation system, which includes AMS Suite predictive maintenance software. These key components of the company's PlantWeb digital plant architecture form the core of a digital approach that includes more than 1,000 smart digital field devices. The vessel, being built by Hyundai Heavy Industries, will be 310 m long, weigh 80,000 tons, and be capable of storing 2 million barrels of crude oil. It will be equipped with living quarters for 100 crewmembers. Topside facilities will produce an average of 200 thousand barrels per day of export-quality oil. All production, gas, and water injection wells will be sub-sea. For more, visit the Emerson Process Management at www.emersonprocess.com and the Pepperl + Fuchs Website at www.am.pepperl-fuchs.com

Call for 2008 Papers and Presentations

The formal Call for Papers for the 2008 Exchange will be issued in January, but it's never too early to begin thinking about a contribution you could make. One look at the Conference Guide shows you how many presentations there are to compile, and the list gets longer every year.

End user presentations can cover a variety of topics:

- Case study of a technology application or upgrade;
- Solving a problem or improving a process;
- Using an existing technology in a creative way;
- Finding a means to increase production or product quality;
- New ways to apply networking or integration; and,
- Many more possibilities.

Presentations are evaluated on clarity of coverage, universality of application, adaptability to many applications, specific information, etc. Projects do not have to be large scale as long as they illustrate their topic well. Specialized industries are covered, but the broader the applicability of a topic, the better.

Talk to a red shirt board member today, or submit an abstract during the Call for Papers, January 14-March 17, 2008. And plan on attending the 2008 Emerson Global Users Exchange, which will be held Sept. 29 to Oct. 3, 2008 at the Gaylord National Resort and Convention Center in Washington, D.C.

Awards

Continued from page 1

Instrumentation for Gasification Processes by Jack Jones, Shell, and Steffen Langner, Emerson Process Management, Rosemount Temperature

• Problems with High-Purity Water pH Measurements in the Power Industry? That was Yesterday by Robert Kale, Tennessee Valley Authority, Bull Run Plant, and Brian LaBelle, Emerson Process Management, Rosemount Analytical

• Wireless HART—Ready, Set, Go Wireless by Ed Ladd, HART Communication Foundation

• High Pressure Feedwater Heater Pressure Controls Retrofit With Smart Instrumentation at Bruce Power by Jeff Kerker, Bruce Power, and Terry Koehler, Lakeside Controls

• Rominserv's Predictive Maintenance Program Eliminates Downtime and Increases Availability by Costin Ciprian Ilie and Dumitru Paduraru, Rominserv

• Case Histories Utilizing Multiple Predictive Technologies on Gas Turbine Equipment by Ron Peterson, Aux Sable and Bill Broussard, Emerson Process Management, Asset Optimization

• Overcoming the Challenge of Meeting the Competency Requirements of IEC 61511 by Bill Goble, Exida

• Bus or Space Ship? By David DeBari, Advanced Elastomer Systems

• How to Successfully Complete a DeltaV On-Line Upgrade (with a little help) by Michael Post, Kinder Morgan Production Co., Sergio Diaz, Emerson Process Management, and Ryan Showers, Vinson Process Controls

• Loop Performance Audit in Gas Fractionation Plant by Károly Oláh, Plant Manager, and István Nagy, Loop Audit Expert.

Dave Imming (left) and Greg Stephens (far right) congratulate István Nagy, Loop Audit Expert (second from left) and Károly Oláh, Plant Manager, for their presentation on *Loop Performance Audit in Gas Fractionation Plant.*

Congratulations to all the winners!

The formal call for papers for 2008 will be issued in January. See page 4 for details.

NEW PRODUCT

HART Loop Interface Works with Multiple Devices

Moore Industries' HIM HART Loop Interface connects to instrumentation from Emerson Process Management. Using HART digital data that "rides" on the 4-20 mA current loop, the HIM Smart HART Loop Interface and Monitor "breaks out" up to three 4-20 mA signals representing any combination of a HART device's primary, second, third, or fourth measurement variables so they can be used by control systems such as a DeltaV DCS. For a multivariable mass flow transmitter, this may include pressure, differential pressure, process temperature, flow rate, flow total, or sensor temperature. The device works with all HART devices, including the Rosemount Analytical Model Xmt pH Transmitter, the Micro Motion 2400S multivariable mass flow transmitter, and the Fisher Fieldvue DVC6000 Series digital valve controller, all from Emerson Process Management. When used with the Xmt pH Analyzer, for example, the HIM can provide 4-20 mA data on any three process variables, including process temperature, reference resistance diagnostics, and glass impedance diagnostics. It can also provide alarms for low pH and broken pH sensor bulb without interfering with the primary pH reading being sent to the DCS via the 4-20 mA connection. In one application, the DVC6000 Series digital valve controller performs a partial valve stroke test to validate proper emergency shutdown (ESD) valve operation and, if the test fails, alerts the user that the ESD valve is stuck. Mounted transparently on the HART loop, the HIM continuously monitors the HART data from the DVC6000. When a valve stroke test is initiated, the HIM sends an alarm trip (relay) output to confirm that the test is in progress. Should the valve be stuck shut, the HIM initiates a second alarm to alert operator and maintenance personnel of the valve's potentially dangerous condition. The compact module may be installed in the control room, DIN-rail mounted, or installed in Moore Industries' metal R-Box field-mount enclosure.
For more, visit www.miinet.com

NEW PRODUCT

Gas Analyzers Suited for Demanding Applications

Rosemount Analytical X-Stream Series of process gas analyzers from Emerson Process Management offer single- and dual-channel analysis using infrared, ultraviolet, and visible (NDIR/UV/VIS) photometry, paramagnetic and electrochemical oxygen, and thermal conductivity sensor technologies. They provide real-time control to help customers fine-tune their processes for increased productivity and profitability. "The X-Stream products are a new generation of process gas analyzers from Emerson that promise optimal performance in demanding applications with minimal installation and maintenance costs," said Mike Fersky, process analyzers marketing manager for Emerson's Rosemount Analytical division. "Various industries can benefit from X-Stream analyzers." X-Stream products were introduced simultaneously in Europe, the Middle East, and Asia. Bernd Thalmann, European process analyzers marketing manager for Emerson said, "X-Stream analyzers feature extended ambient temperature ranges for all world areas and an alphanumeric display with multiple languages selectable during run-time." Industries that can benefit from X-Stream analyzers include petrochemical and chemical processing, metallurgical production, hardening and heat treatment, natural gas production and distribution, safety measurement for flammable mixtures, biotechnology, landfill applications, and flue gas analysis of boilers, power plants, process furnaces, and incinerators. The analyzers come in three configurations: General purpose X-Stream–rack mountable or tabletop version; field housing X-Stream–NEMA 4X / IP66 version that can be purged/pressurized for installation in hazardous areas; and flameproof XStream–flameproof (explosion proof) version that can be installed in Class I, Zone 1, Group IIB + H2 hazardous areas.

NEW PRODUCT

Video Surveillance System

Detector Electronics is demonstrating its xWatch, a video surveillance system that provides high-resolution monitoring from within Det-Tronics X-Series flame detectors. xWatch also can operate as a stand-alone device to monitor hazardous areas typical to petroleum and chemical manufacturing. The xWatch monitoring system, combined with a Det-Tronics' flame detector, is ideally suited for remote or hard-to-access areas. Continuous, real-time video provides the operator with surveillance capabilities during normal operation. If a fire is detected, the operator has the knowledge to accurately assess the risk and location of the fire and initiate a response. "Integrating the flame detector with the xWatch provides video surveillance matched to the flame detector itself," says Rob Fillmore, Detector Electronics engineering manager. "The xWatch provides a logical extension to powerful flame detection capabilities. Together they match the appropriate level of mitigation to the threat." xWatch is an economical and effective video imaging. It can be retrofitted into an existing C7050 Detector by replacing the tube module with the camera module, reducing installation costs.
Detector Electronics, booth 52

Should You Join the Board of Directors?

Are you passionate about your work and your industry? Do you want to help share knowledge that can benefit other producers like yourself? Are you willing to invest time and energy to advance process industries across all fields? If you answer "yes," then you should consider joining the Emerson Global Users Exchange board of directors!
In addition to wearing a spiffy red shirt, you help determine and guide the formation of this event, evaluate presentations, and guide the user group at large. The board consists of 18 voting members, 11 of which are end users selected to represent key industry segments. Additionally, there is an advisory board to help with special projects.
To add your name for consideration, talk to one of the current red shirt members today, or send an email to one of the following:
Christoph Lebl; calebl@gene.com
Neal Rinehart; neal.rinehart@emersonprocess.com
Jim Hendrix; jim.hendrix@controlsouthern.com
James Cook; james.cook@degussa.com
Some board members change every year, so there are opportunities following each Exchange.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Welcome to the Stardust Saloon

Clockwise from top: (1) Saloon girls welcome attendees to the "Stardust Saloon" and an evening of fine food, entertainment, live music, and casino games. (2) Hard to be stilted on a night like this. (3) Belly up to the bar. (4) Linder & Brocks provide live entertainment for the evening. (5) Saddle up for a good time. (6) Networking takes on a whole new meaning.


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Contest Rewards "Wireless Innovators"

Emerson Process Management's "SmartWireless Innovators Contest," designed to recognize customers for innovative applications of SmartWireless solutions, continues through March 31, 2008.

"We frequently have customers trialing our Smart Wireless technologies for one reason, then finding many other good uses once they get it up and running," said Peter Zornio, chief strategic officer for Emerson Process Management. "We are introducing this contest and award to celebrate the innovative spirit of those finding new and exciting ways to experience the value of reliable, secure and easy-to-use wireless."

Open globally to all manufacturing customers, the contest will run until March 31, 2008. A panel of customer peers will judge the entries and award prizes in two categories: most innovative use of wireless technologies, and greatest business impact from using wireless.

To qualify for the contest, applications must include at least five of Emerson's Smart Wireless instruments with a 1420 Smart wireless gateway or a ROC800-series Remote Operations Controller with on-board wireless gateway, and AMS Device Manager software with wireless PlantWeb interface. This application can be purchased and implemented as a Smart Wireless solution instrumentation order, or by using Emerson's offering of Wireless SmartPack Starter Kits.

Contest winners will receive free admission to the 2008 Emerson Global Users Exchange in Washington, D.C., where they will be formally honored with a crystal Smart Wireless Innovators Award and a $2,500 cash prize. Winners will also have an opportunity to present to industry peers at the Users Exchange the details of their application.

Contest submittals must include a description of the actual Smart Wireless application, business objectives, Emerson technologies involved, an assessment of performance, and results achieved. Entry forms are available at www.emersonprocess.com/smartwireless/