

AIChE Vacuum Systems & DCS Technology Seminar

(Presented by AIChE Baton Rouge Section)

Friday June 18, 2010

8:00AM – 4:30PM

Holiday Inn South
9940 Airline Hwy
Baton Rouge, Louisiana 70816
(225) 924-7021

Earn 7 PDH's! Enrollment is Limited! Sign-Up Early!

REGISTRATION FORM

NAME: _____.

MAILING ADDRESS: _____.

CITY: _____ **STATE:** _____ **ZIP:** _____.

COMPANY: _____.

EMAIL: _____ **PHONE NUMBER:** _____.

TECHNICAL/PROFESSIONAL SOCIETY MEMBERSHIP*: _____.

COST: \$75/person for Tech/Prof Society Members* prior to 06/04/2010
(Please check appropriate box) \$90/person for non-members (& all after 06/04/2010)

PAYMENT OPTION: Credit Card or PayPal – See “Credit Card/PayPal Policy” below.
(Please check appropriate box) Check - Payable to “AIChE Baton Rouge Section”

MAIL COMPLETED REGISTRATION FORM TO: Armand Melikyan
(Please include check if that is your payment option) P.O. Box 84787
Must be RECEIVED by June 17, 2010. Baton Rouge, LA 70884

QUESTIONS: E-mail: armand_melikyan@hotmail.com Phone : (225) 773-0468

*The AIChE supports membership in Professional and Technical Societies (see list below)

Refund Policy: Advance registration is 100% refundable with notice at least 14 days prior to the date of the seminar. Notice received after June 04, 2010 is 50% refundable.

Cancellation: AIChE reserves the right to cancel this seminar if low attendance is projected. A full refund will be sent in this event.

Credit Card/PayPal Policy: This option will **not** be available the day of the event. Visit www.aiche-br.org for instructions for this payment option.

AIChE Vacuum Systems & DCS Technology Seminar (7 PDHs)

MORNING SESSION: Vacuum Systems

Topic Description

The morning session will begin with the subject of vacuum system basics including vacuum classification (Low, Medium, High, Ultra) followed by an overview of vacuum system design fundamentals including: Proper line sizing guidelines, Leakage estimation guidelines, discussion of condensibles vs. non-condensibles on vacuum system capabilities, Draw-down alternatives. An overview of the various types of vacuum systems will be discussed including the advantages/disadvantages of each type: liquid-ring, rotary dry-run, steam jets, air jets, hybrid systems. Vacuum system controls options will be discussed including vendor provided PLCs and DCS controls and PLC-DCS interface options. Various system configurations and latest design alternatives will be discussed including examples.

AFTERNOON SESSION: Distributed Control Systems (DCS) Technology

Topic Description

The afternoon session will begin with the subject of Automatic Process Control (APC) followed by the subject of Multi-Variable Process Control (MVPC). An overview of APC controls configuration will be provided including the advantages of APC. The latest APC controls options will be discussed with examples. An overview of MVPC controls configuration will be provided including the advantages of MVPC. The latest advancements in MVPC will be discussed including general guidelines on MVPC development and optimization techniques. The afternoon session will then focus on the latest DCS advancement options including: DCS data dump alternatives (Excel), Alarms Management: Set-Up & Safeguards, Trending Options. Various system configurations will be discussed including examples and an overview will be provided of the latest advancement options.

Presenters:

Adam Taloni, Regional Sales Manager, Sihi, Inc.

Mike Pastore, Vice President Sales & Marketing, Sihi, Inc.

Dustin Beebe, President & CEO, ProSys, Inc.

Darwin Logerot, Senior Engineer, ProSys, Inc.

Note: Some topics may change without prior notice.

Notice: Full day registration only. Registration fees will not be reduced for half day attendance. Attendance signatures will be required at the beginning of each presentation. PDH (Professional Development Hour) certificates will be issued based upon attendance list signatures, with Hours reflecting actual attendance. Fees will not be reduced or partially refunded for partial attendance.

AICHE Seminar Agenda: (Tentative)

07:30 A - 08:00 A Breakfast (0.5 hours)

08:00 A - 11:30 A (3.5 hours) Morning Session: Vacuum Systems - Sihi, Inc.

Presenter(s): Adam Taloni - Regional Sales Manager; Mike Pastore - VP Sales & Marketing

1. Vacuum System Design Fundamentals

1.1 Vacuum Classification - Low, Medium, High, Ultra

1.2 Basic Overview of Vacuum System Types - Liquid-Ring, Rotary Dry-Run, Reciprocating Dry-Run, Steam Jets, Air Jets, Hybrid Systems

1.3 Discussion of Condensibles versus Non-Condensibles on Vacuum capabilities. (SCFM of streams having more condensibles on vacuum system capabilities versus streams with same SCFM having more non-condensibles)

1.4 Leakage Estimation Guidelines: Vendor recommendations for preliminary design.

1.5 Line Sizing Guidelines: Vendor recommendations at Inlet/Outlet of Vacuum System: vel., dP/100'

2. Vacuum System Design Alternatives

2.1 Drawdown alternatives: Booster Pumps, Booster/Hogger Jets

2.2 Vacuum Systems: (Show examples and discuss advantages/disadvantages of various types)

2.2.1 Liquid-Ring: (Discuss latest seal fluid designs including contamination, waste disposal, etc.)

2.2.2 Dry-Run: Rotary Screw, Rotary Lobe, Rotary Claw, Reciprocating

2.2.3 Steam-Jet Systems

2.2.4 Air Eductors

2.2.5 Hybrid Systems

2.3 Controls: Discuss vendor controls offered including vendor supplied packages which include vendor provided vacuum controls with skid-mounted PLCs, instrumentation, etc.

11:30 A -12:30 P Lunch (1.0 hours)

12:30 P - 4:00 P (3.5 hours) Afternoon Session: Distributed Controls Systems (DCS) - ProSys, Inc.

Presenter(s): Dustin Beebe - President & CEO; Darwin Logerot - Senior Engineer

3. Process Control Fundamentals

3.1 APC = Automatic Process Control - Provide definition(s), example(s), explain advantages/benefits

3.2 MVPC = Multi-Variable Process Control - Provide definition(s), example(s), explain advantages/benefits

4. Process Control Design Alternatives

4.1 DCS Features Management:

4.1.1 Data dump options and alternatives (such as, to Excel)

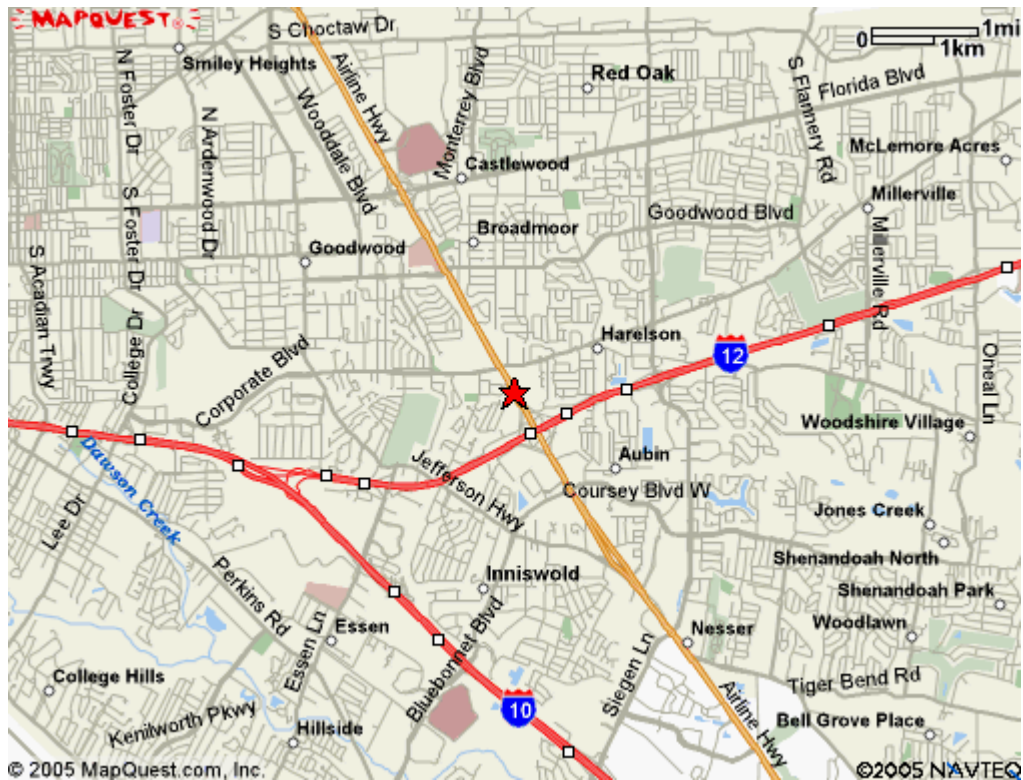
4.1.2 Alarms Set-Up and Safeguards

4.1.3 Trending - Provide latest advancement options. Provide examples of latest trending capabilities including time lapse data retrieval options and alternatives.

4.2 DCS APC/MVPC - Provide Examples of latest advancement options

*****Morning and Afternoon Sessions each to include two to three 10 min. breaks (not shown)*****

(Map to Holiday Inn South (9940 Airline Hwy, Baton Rouge, LA 70816)



Local Professional Societies

- Louisiana Engineering Society (LES)
 - Louisiana Society of Professional Surveyors (LSPS)
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National Technical Societies

- America Academy of Environmental Engineers (AAEE)
- American Institute of Architects (AIA)
- American Institute of Chemical Engineers (AIChE)
- American Institute of Electrical Engineers (AIEE)
- American Consulting Engineers Council (ACEC)
- American Concrete Institute (ACI)
- American Institute of Steel Construction (AISC)
- American Management Association
- American Iron and Steel Institute
- American Society of Mechanical Engineers (ASME)
- American Plywood Association (APA)
- American Society of Civil Engineers (ASCE)
- American Society of Engineering Education (ASEE)
- American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)

- American Society of Safety Engineers (ASSE)
- American Wood Council (AWC)
- Earthquake Engineering Research Institute (EERI)
- Institute of Transportation Engineers
- Institute of Electrical and Electronics Engineers (IEEE)
- Instrumentation Systems and Automation Society (ISA)
- National Council of Examiners for Engineering and Surveying
- National Design Specification (NDS)
- National Society of Architectural Engineers
- National Society of Professional Engineers (NSPE)
- Society of Petroleum Engineers (SPE)
- Society of Petroleum Evaluation Engineers (SPEE)
- Society of Professional Well Log Analysts (SPWLA)
- Society of Women Engineers (SWE)
- Air & Waste Management Association (AWMA)