

# AIChE Baton Rouge Fall Seminar

Hydrocarbon Recovery, Oil & Gas Separations, Polarex Technology,  
Dry Gas Seals, Steam Applications, Engineering Ethics

Friday, November 13, 2015  
8:00AM – 4:00PM

Location: 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

**NEW!** Register online at [www.aiche-br.org](http://www.aiche-br.org), or mail this completed form with payment to the address below.

NAME: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

COMPANY: \_\_\_\_\_

EMAIL: \_\_\_\_\_ PHONE: \_\_\_\_\_

TECHNICAL/PROFESSIONAL SOCIETY MEMBERSHIP\*: (must indicate) \_\_\_\_\_

**COST:**  \$75/person for Tech/Prof Society Members\* prior to 09-Nov-15  
(Please check appropriate box)  \$95/person for non-Tech/Prof Society Members prior to 09-Nov-15  
 \$110/person for all after 09-Nov-15

**MAIL COMPLETED REGISTRATION FORM TO:** Oscar Alfaro (Treasurer)  
(Please include check if that is your payment option) 1124 W Lakeview Dr.  
**Must be RECEIVED by 09 Nov 15** Baton Rouge, LA 70810  
Walk-ins welcome space permitting. Email: [Oscar.Alfaro@Jacobs.com](mailto:Oscar.Alfaro@Jacobs.com)  
Check or cash only, no credit cards on event day **Phone:** (818) 642-8003

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

Refund Policy: Advance registration is 100% refundable with notice at least 12 days prior to the date of the seminar. Notice received between 01-Nov-15 and 12-Nov-2015 is 50% refundable. No refunds on day of the seminar.  
Cancellation: AIChE reserves the right to cancel this seminar if low attendance is projected. A full refund will be sent in this event

## **Baton Rouge Section November 13, 2015 Seminar**

**7:00 AM – 8:00 AM: REGISTRATION & BREAKFAST**

**8:00 AM – 8:50 AM: MORNING SESSION**

### **Hydrocarbon Recovery Technology**

Ryan Bennett (Pentair Filtration & Process)

- Introduction to Hydrocarbon Recovery Technology (HRT)
- Description of the technology and animated video
- Application Review
  - Amine Optimization, Sour Water Systems, Quench Water Systems
- Question and Answers

#### About the presenter:

**Ryan Bennett** leads the US sales team working with direct accounts primarily in the oil and gas sectors around refining, petrochemical, and gas processing. He originally worked as a chemical process engineer for Weyerhaeuser R&D and as a chemical sales representative for Nalco. Ryan originally joined Pentair in 2007 as a business development representative covering the US West and Rocky Mountain areas. He moved into a regional sales manager position in 2011 and director of sales role in 2014. He lead's the direct account sales team in the US for Pentair. Ryan graduated with a BS degree paper science and engineering from Miami University (OH) and holds an MBA from Arizona State's WP Carey School of business.

**8:50 AM – 9:40 AM: MORNING SESSION**

### **Gas Separations in Oil & Gas Industry**

Dave Kolstad (Pentair Oil & Gas)

- Separation Technologies for LNG Production:
- Inlet Gas Separations prior to Amine Treating (UltiSep)
- Turbine Fuel Gas Conditioning (Apex / Apex+)
- Recently Developed Ultra-Low Temperature Coalescing and Particulate Filters capable of minus 280°F
- Question and Answers

#### About the presenter:

**David Kolstad** is the Business Development Manager, Gas Processing for Pentair Oil & Gas Separations. He is a graduate from the Univ. of Minnesota with a BS degree in Mechanical Engineering. Dave's professional career began in 1986 as with Porous Media (since acquired by Pentair). Overall he has more than 25 years of experience in the technical design, sales and marketing of filtration & separation technologies. He has received two patents for products in Pentair's oil conditioning portfolio and a third patent is pending. In 2012 he received the Pentair President's Circle Award for sales in the Filtration & Process GBU. Dave has also presented papers at fourteen technical conferences related to Renewable Energy, Paper, & Power Generation at venues worldwide including India and SE Asia.

## 9:40 AM – 10:30 AM: MORNING SESSION

### **Polarex Extractive Separation Technology**

Sharon Maydak (Pentair Filtration & Process)

- Options for removal of dissolved contaminants  
Water Washes, Solvent Scrubbing Towers, Polarex Technology
- Applications for Extractions Technology  
Batch Chemical Processes, Recovery of LPG, Caustic Systems  
Dissolved Acids, Salts, Acid Gas
- Examples of Current Applications
- Questions / Answers

#### About the presenter:

**Sharon Maydak** leads the US sales team in developing and working with large, capital and systems projects. She is a driven business development professional with a large network of contacts within the US energy industry (oil and gas, refining, gas processing and petrochemical). Sharon originally joined Pentair in 2007 as part of Pentair's acquisition of Porous Media Corporation. She was a key business development leader in Pentair's Energy business. She has experience, and exceptional success in sales of a variety of process equipment including valves, flow control devices, steam control technology, filtration, separations technology and systems. Sharon graduated with a degree from Austin College. Sharon is a member of the Gas Processor's Association (GPA) of Houston, Engineering and Construction Contracting Association (ECC), Women Energy Network (WEN). She is also on the Fuels and Petrochemical division of the AIChE board as Communications Manager

## 10:30 AM – 12:00 PM: MORNING SESSION

### **Gas Seals for Pumps & Compressors**

Prashanthi Tirunagari and Joe Delrahim (John Crane)

- Introduction to Mechanical Seals
- Contacting vs. Non-Contacting sealing Technology
- Gas Seal Application for: Pumps and Compressors
- Gas seal Groove technology and Patterns
- Gas Seal Arrangements and process specific application guidelines
- Control Systems
- Question and Answers

#### About the presenters:

**Prashanthi Tirunagari** works as a Design Engineer in the Product Development group at John Crane Inc. Prashanthi joined John Crane in 2006 as a Mechanical Engineer in the Design group. She is involved in designing, testing and analyzing the mechanical seal performance, and calibrating mechanical seal tools. She has experience in qualifying and certifying Mechanical Seals as per API-682 standard. Prior to joining John Crane, she also worked as a CAD designer at BHEL and HIL in India. Prashanthi holds a Bachelor of Engineering degree in Mechanical Engineering from CBIT, India and a Master of Science degree in Mechanical and Aerospace Engineering, from University of Missouri-Columbia.

**Joe Delrahim** is Business Development Manager for Americas Turbomachinery Solutions Group . He received a Mechanical Engineering degree from University of Oklahoma (OU) and MBA degree from Lake Forest School of Management. After graduating from OU Engineering School, he joined International Harvester Farm Division where he designed and developed Hydraulic Valves and Systems for nearly 10 years. In 1983, Joe joined John Crane Engineering Group to design Dry Running Gas Seals for Compressors. He has worked in this field ever since holding various positions at John Crane Company. Joe has published many articles and presented several articles on Gas Seals and Systems for various organizations and publishing companies around the world.

**12:00 PM – 1:00 PM: LUNCH**

**1:00 PM – 3:00 PM: AFTERNOON SESSION**

### **Steam Applications in the Process Industry**

Brian Kimbrough (Louisiana Steam)

- Vacuum Tower Eductor Performance  
Steam Entrainment, Modulating Valve Eductors  
Condenser Fouling and Performance
- Combustion Air Preheaters  
API560 Fired Heaters, Draft Issues  
Fuel Fired Boilers, MACT Regulations
- Steam Turbine Operation Efficiency  
Steam Quality, Piping, Steam vs. Electric
- Questions / Answers

About the presenter:

**Brian D. Kimbrough**, Strategic Project Manager, Louisiana Steam Equipment Co., New Orleans Former Director of Global Petro-Chemical Markets for Armstrong International, Inc., headquartered in Three Rivers, Michigan. Mr. Kimbrough was affiliated with Armstrong Intl, Inc. for 33 years. He holds a B.S., Mechanical Engineering, Kansas State University, Manhattan, Ks. 30 Year Member of ASHRAE and ASME. Over 30 years of experience in the design and implementation of capital equipment projects in the petrochemical and power plant industries.

**3:00 PM – 4:00 PM: AFTERNOON SESSION**

## **LAPELS Enforcement and Disciplinary Procedures**

Christopher Knotts, P.E. (LAPELS Board)

- Board and Staff
- Compliance and Enforcement Personnel Activities
- Enforcement/Disciplinary Procedures
- Recent Enforcement Cases
- Common Causes for Disciplinary Actions
- Rule Changes
- Recent PE Exam Statistics
- Question & Answer

### About the presenter:

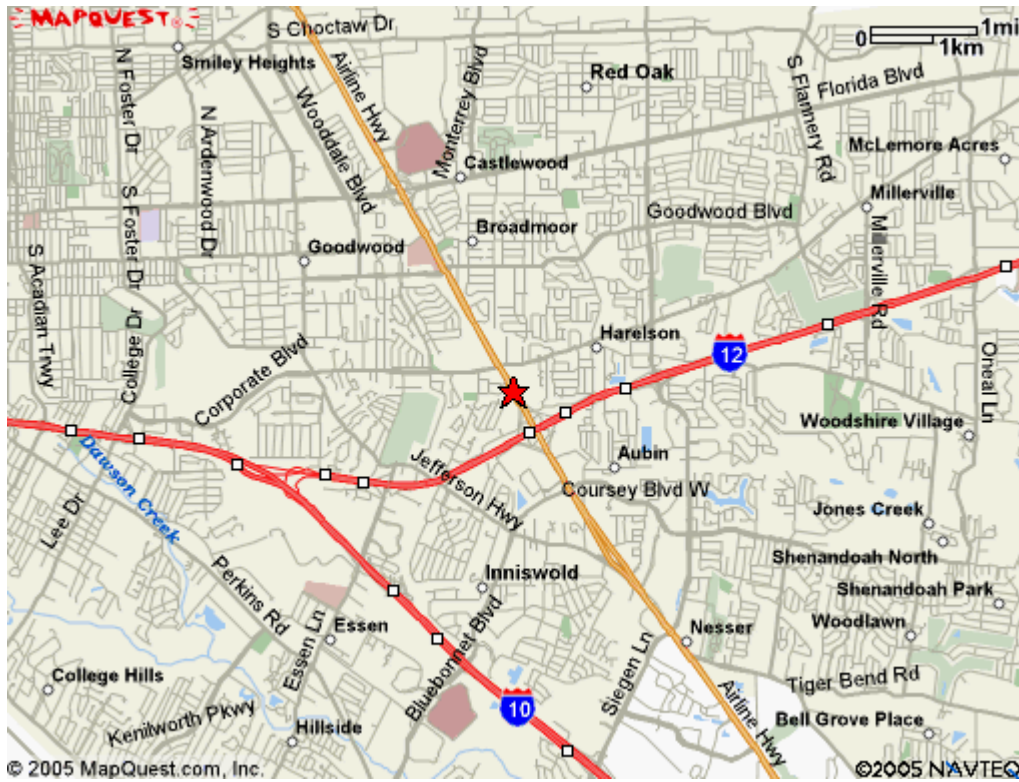
**Christopher Knotts**, P.E. was appointed to the LAPELS Board by Governor Bobby Jindal in April, 2013. He is currently the Chairman of Liaison & Law, PE Applications, and EI Applications committees. He also serves on the Enforcement and Industrial Licensure committees of LAPELS. Mr. Knotts has 31 years of civil engineering experience, having worked in private consulting and manufacturing prior to joining the State in 1997. While at the State, he has held leadership positions in coastal restoration, technology assessment/energy is currently the Chief of Public Works & Water Resources at DOTD. Chris earned bachelor degrees in Engineering Technology and Civil Engineering from LSU and a masters in Civil Engineering from the University of Texas @ Arlington. Mr. Knotts remains active in both ASCE and the Louisiana Engineering Society, having served as Baton Rouge Branch and Louisiana Section President for ASCE and Baton Rouge Chapter President for LES. He currently serves as a Director on the LES State Board.

**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.**

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

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



## Local Professional Societies

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- Louisiana Engineering Society (LES)
- Louisiana Society of Professional Surveyors (LSPS)

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## National Technical Societies

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- 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)