



# Baton Rouge Newsletter

Year 26, Number 3

[www.aiche-br.org](http://www.aiche-br.org)

November 1, 2015

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The *AIChE Baton Rouge Newsletter* is published monthly, from September to June, by the AIChE Baton Rouge Section, 110 Chemical Engineering, LSU, Baton Rouge, LA 70803. It is distributed free of charge to members of the Baton Rouge Section of the American Institute of Chemical Engineers.

**Membership Fee:** \$15.00/yr.

## *November 2015 Meeting...*

**Date:** Thursday, November 19<sup>th</sup>, 2015

**Place:** Drusilla Seafood, 3482 Drusilla Ln., Baton Rouge, LA 70809

**Speakers:** Dr. Greg Upton, Assistant Professor – Research, Center for Energy Studies, LSU

**Topic:** *“Unconventional Oil and Gas Activity and Crude Export Restrictions: A discussion of U.S. policy restricting crude oil exports”*

**Agenda:**  
5:30 PM – Social hour as guests arrive and order dinner  
6:00 PM – Chapter announcements and presentation of HS Classroom grants begin  
6:30 PM – Speaker presentation begins  
7:30 PM – Meeting adjourns

**Cost:** \$20 per AIChE member (\$25 per guest; \$13 per AIChE student member)

**Menu:** A selection of the finest Louisiana seafood

### **RESERVATIONS**

Please make your reservation with chapter secretary, Ryan Schexnaydre, **by 5:00 PM on Tuesday, November 17<sup>th</sup>, 2015** at [valed1980@gmail.com](mailto:valed1980@gmail.com) or by calling 337-412-1727.

*If you don't, you'll still be welcome at the door, so bring your coworkers too!*

### **Professional Engineering Certification**

The subject of this meeting is an acceptable activity for continuing Professional Development as defined by LAPELS and is **approved for one (1) PDH unit**.

The Baton Rouge AIChE chapter is NOT responsible for individual record keeping of PDH credits. Certificates must be obtained at the meeting by the individual.

## *Other Upcoming 2015 + 2016 Events / Speakers...*

**11/13:** Fall Seminar at the Holiday Inn (Airline Hwy. location)

**12/03:** Presentation – Todd Jaco, MYNAH Technologies

**01/21:** 4<sup>th</sup> Annual AIChE Industry Panel with LSU AIChE

*If you or your colleague(s) would like to give a technical presentation at an upcoming chapter meeting for 2 professional development hours (PDHs), please contact Chapter Chair, Stephen Reilly, at [stephen.reilly@prosys.com](mailto:stephen.reilly@prosys.com) to schedule a meeting date and time.*

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## *November Meeting Abstract...*

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In 1975, President Ford signed the Energy Policy and Conservation Act (EPCA) that prohibited the export of domestically produced crude oil and natural gas. This “export ban” persists to the current day. The recent shale boom has created historic increases in oil and gas production and has become the catalyst for Congress to consider whether the export ban is still in the best interest of the U.S.

Spurred by this renewed interest in the decades old policy, Dr. Greg Upton, Assistant Professor at LSU’s Center for Energy Studies, will present his work entitled “Unconventional Oil and Gas Activity and Crude Export Restrictions. A discussion of U.S. policy of restricting crude oil exports.” This study considers the likely implications of lifting the ban to both up-stream producers and down-stream refining and petrochemicals as well as other potential risks and opportunities associated with lifting the ban. In particular, the study also concentrates on how this potential policy change can impact Louisiana specifically.

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## *November Meeting Speaker Biography...*

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Gregory Brian Upton, Jr., is an assistant professor at the Center for Energy Studies. His research interests are related to the analysis of economic, statistical and public policy issues in energy and regulated industries.

Dr. Upton received his Ph.D., M.S. and B.S. in economics, with a focus on empirical analysis, from Louisiana State University.

He is also currently an adjunct professor in the Department of Economics in the E.J. Ourso College of Business at LSU and is a member of the Southern Economic Association (SEA) and International Association of Energy Economics (IAEE).

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Telephone: 225-578-9253

Website: [www.gregoryuptonjr.com](http://www.gregoryuptonjr.com)



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## *October Chapter Meeting Recap...*

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Michael Christy and Bill Clay from Marathon Flow Control were the speakers for the October meeting. Marathon Flow Control was formed in 1999 and is a manufacturers for representative for “Apollo” valves, CSC valves, Tylok fittings and valves, Red Valve Company, and Cameron Techno check valves. Michael Christy presented the technical aspects and designs of the “Apollo” ball valves and actuators.

Apollo products are almost exclusively manufactured in the ISO certified facilities in the US. 95-98% of the components are manufactured in the plants at Pageland and Conway, South Carolina. The company dates back to 1928 for the old Detroit based Consolidated Brass Company.

You can find out more at [www.apollovalves.com](http://www.apollovalves.com) and [www.marathonflowcontrol.com](http://www.marathonflowcontrol.com).

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*From the Chapter Chair's Pen...*

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American model Carré Otis once quipped, "But life inevitably throws us curve balls, unexpected circumstances that remind us to expect the unexpected. I've come to understand these curve balls are the beautiful unfolding of both karma and current."

While I personally was absent from the last chapter meeting due to an unexpected change in business trip plans, I give my fellow officers, Bill Buck, Oscar Alfaro, and Ryan Schexnaydre, kudos for stepping up in running the meeting.

Our chapter also had to prepare an audible play when Super Science Saturday was rescheduled from October 10<sup>th</sup> to October 31<sup>st</sup> and became Spooky Science Saturday! We'll have more to report about that in our next issue, but I tip my cap to Donna Bryant for coordinating the chapter volunteer efforts and to the volunteers from the Baton Rouge and LSU chapters who were able to help out!

In other news, our annual chapter officer and committee chair elections are on the horizon, so if you are interested in serving a potential position, please contact our current Nominations Chair and/or myself for more information, and stay tuned!

*Stephen Reilly*



## 2015 Section Contacts

### Officers

**Chair:** Stephen Reilly, [Stephen.Reilly@ProSys.com](mailto:Stephen.Reilly@ProSys.com)  
**Vice Chair:** William Buck, [William.Buck@Willbros.com](mailto:William.Buck@Willbros.com)  
**Secretary:** Ryan Schexnaydre, [valed1980@gmail.com](mailto:valed1980@gmail.com)  
**Treasurer:** Oscar Alfaro, [Oscar.Alfaro@Jacobs.com](mailto:Oscar.Alfaro@Jacobs.com)

### Executive Committee Members

Glenn Bryson [BGBryson@BellSouth.net](mailto:BGBryson@BellSouth.net)  
 Jimmy Orr [Jimmy.Orr@Jacobs.com](mailto:Jimmy.Orr@Jacobs.com)  
 Noel Ricord [LCNoel55@aol.com](mailto:LCNoel55@aol.com)  
 W. Clark Snyder [WClarkSnyder@hotmail.com](mailto:WClarkSnyder@hotmail.com)  
 Louis J. Thibodeaux [Thibod@LSU.edu](mailto:Thibod@LSU.edu)

### Committees

**Awards:** Dal Dalferes, [Joseph.Dalferes@jacobs.com](mailto:Joseph.Dalferes@jacobs.com)  
**Education:** Donna Bryant, [donna.bryant@syngenta.com](mailto:donna.bryant@syngenta.com)  
**High School Grants:** W. Clark Snyder, [WClarkSnyder@hotmail.com](mailto:WClarkSnyder@hotmail.com)  
**Newsletter:** Armando Corripio, [Corripio@LSU.edu](mailto:Corripio@LSU.edu)  
**Nominations:** Donna Bryant, [donna.bryant@syngenta.com](mailto:donna.bryant@syngenta.com)  
**Public Relations:** Ken Campbell, [kencamp99@yahoo.com](mailto:kencamp99@yahoo.com)  
**Communications:** Brandon Lithgoe, [blithgoe@yahoo.com](mailto:blithgoe@yahoo.com)  
**Professional Development:** Randy Goodman, [Randy.Goodman@LA.gov](mailto:Randy.Goodman@LA.gov)  
**Seminars:** Jimmy Orr, [Jimmy.Orr@Jacobs.com](mailto:Jimmy.Orr@Jacobs.com)  
**Membership:** Glenn Bryson, [BGBryson@BellSouth.net](mailto:BGBryson@BellSouth.net)

### Why Should You Join the Local AIChE Chapter?

1. It is a welcoming presence to new chemical engineers in the area.
2. It provides a neutral ground mentorship toward career directions and other life topics.
3. It facilitates a better understanding of local, state, and federal policies related to our professions.
4. It offers a smooth transition for graduating chemical engineers from LSU, ULL, and other nearby universities who start working in the area.



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### **About ProSys, Inc.**

ProSys, Inc. delivers high-quality, cost-effective, innovative Process Control Systems consulting services and product solutions to the international refining, chemical and petrochemical industries. ProSys' expertise and experience cover the full range of modern control system technology, including basic control, advanced control, dynamic configuration, alarm management and optimization.

**AIChE Baton Rouge Seminar – Fall 2015**  
**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:**

(Please include check if that is your payment option)

**Must be RECEIVED by 09 Nov 15**

Walk-ins welcome space permitting.

**[Oscar.Alfaro@Jacobs.com](mailto:Oscar.Alfaro@Jacobs.com)**

Check or cash only, no credit cards on event day

Oscar Alfaro (Treasurer)  
1124 W Lakeview Dr.  
Baton Rouge, LA 70810  
Email:

**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 Agenda**

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

**8:00 AM – 8:45 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.

**8:45 AM – 9:30 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.

## 9:30 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:

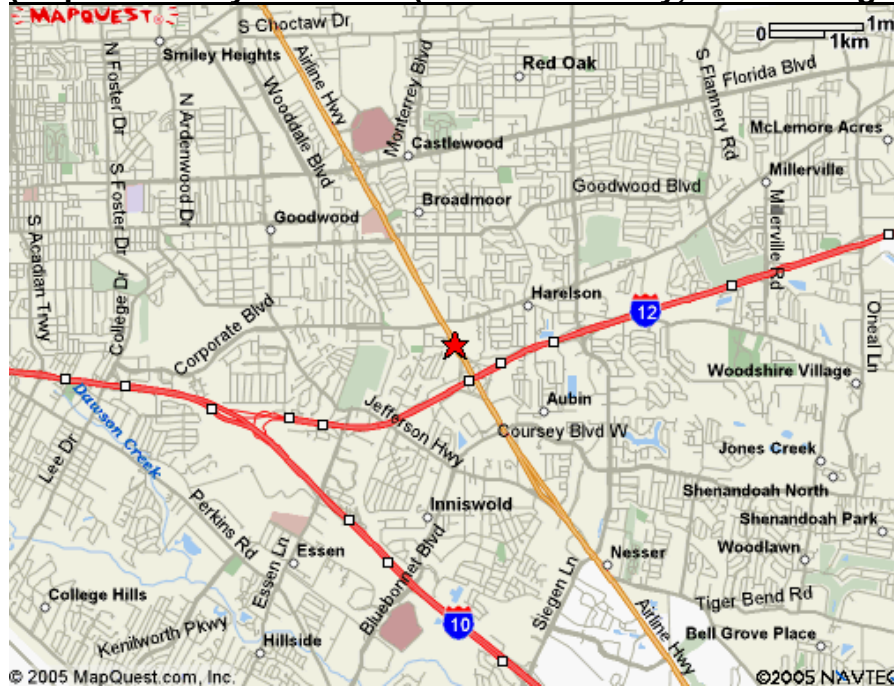
**Christopher Knotts**, P.E. was appointed to the LAPELS Board by Governor Bobby Jindal in April, 2013. He is currently the Chairman of Liaison & Law, PE Applications, and EI Applications committees. He also serves on the Enforcement and Industrial Licensure committees of LAPELS. Mr. Knotts has 31 years 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**

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

### **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)