



# Baton Rouge Newsletter

Year 25, Number 8

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

April 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.

## *April 2015 Meeting Sponsored by **BASF**...*

**Date:** Thursday, April 23<sup>rd</sup>, 2015

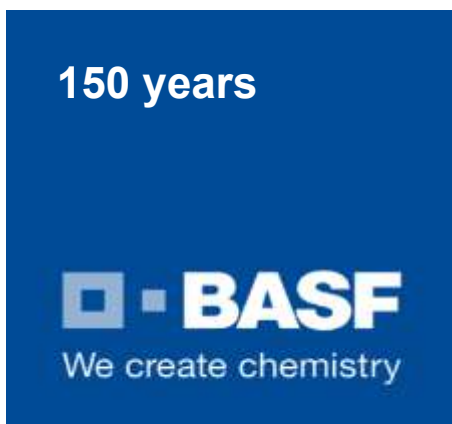
**Place:** BASF Geismar Administration Communications Conference Room  
37269 Highway 30  
Geismar, LA 70737

**Speaker:** Douglas Stoeckle, Manager of Analytical Services

**Topic:** Selected Topics of Analytical Services

**Agenda:** 5:30 PM - Social hour as guests arrive  
6:00 PM - Presentation and dinner begin after chapter announcements  
6:45 PM - Facility tour(s) begin - **have TWIC card ready\***  
(\* or provide last 4 digits of SSN in your RSVP)  
7:15 PM - Meeting adjourns

**Cost:** **FREE** to attend!



### RESERVATIONS

Please make your reservation with chapter secretary, Bill Buck, at **William.Buck@willbros.com** or by calling 225-612-6224 **by 5:00 PM on Wednesday, April 15<sup>th</sup>, 2015**, to guarantee your spot on the tour!

### **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.

## *Upcoming 2015 Events / Speakers...*

**05/01:** Spring Seminar at Holiday Inn, Airline Hwy. S location

**05/13:** 58<sup>th</sup> Annual Charles E. Coates Award Banquet at Ashley Manor

**07/23:** 2<sup>nd</sup> Annual Young (and Young-at-Heart) Professionals' Trivia Night (Tentative Date)

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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## *March 2015 Meeting Recap...*

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The March meeting at the Tin Roof Brewery was a very pleasant and informative experience. There is a bar on the side of the brewery with a full view of the production area where you can buy one of seven or so kinds of ale, on tap, for \$3 a glass.

We had a complete tour of the brewery where all the equipment is made of stainless steel. The process starts in a 1,000-gallon tank equipped with an agitator that extends the entire width of the tank, from the center to the walls, and rotates very slowly. In it the water and the barley are mixed and maintained about 165°F by a steam-heated jacket to extract the sugars from the barley. The process takes about an hour and the temperature is automatically controlled. The spent barley is sent to the LSU Agricultural department to feed the livestock.

The dissolved sugars are piped to another 1,000-gallon tank to be boiled by steam in the jacket to kill all the bacteria. The hops are added in that tank and the process takes about another hour. From there the solution is cooled in a heat exchanger and sent to the 2,000-gallon fermenters where the yeast is added. Fermentation takes about fourteen days for ales and up to six months for lagers, but they don't make lagers at Tin Roof. The fermenters are also jacketed and cooled by an ethylene glycol refrigeration system.

When fermentation is complete the yeast is filtered away and the beer is ready for packaging. They have a small canning machine that fills five cans at a time in a two-stage process. The cans are automatically sealed and then manually loaded into cartons. We found it a fascinatingly interesting process. The brewery was started by two LSU graduates who decided it was more fun to do this than banking.

### *A note from your newsletter editor...*

For the past few years I have been preparing notes for the Unit Operation lectures I deliver each fall semester. With the help of Marcos Diaz, a senior at McKinley High School, the notes have been made available through The Cloud, along with some interesting videos from MIT and Stanford. The link is <http://unitoperationsnotes.weebly.com>.

*Armando Corripio*, editor

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## February 2015 Meeting Recap...

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Presentation by Professor Daniel Shantz at the February meeting at El Magey Mexican Restaurant

Professor Shantz discussed the challenges of synthesizing zeolites as phase-pure materials with desired compositions using the synthesis of germanium- and tin-containing zeolites as examples. He pointed out that controlling composition of zeolitic materials is often non-trivial, and validating material homogeneity requires the use of several analytical methods. He also discussed how the method employed to prepare the zeolites has significant effect on catalyst activity and finished his talk with some future prospects on the application of these issues to current and emerging technological challenges.

*Armando Corripio*, editor

# **JOB OPPORTUNITY**

ExxonMobil Baton Rouge Plants are searching for experienced individuals to fill Process Automation Engineering positions.

If interested, please visit the ExxonMobil careers website:

[www.exxonmobil.com/ex](http://www.exxonmobil.com/ex)

(Search openings, Engineering, Gulf Coast, keyword: process control applications Baton Rouge).

**ExxonMobil is an Equal Opportunity Employer.**

*All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, protected veteran status or disability status.*



## Do you have what it takes? Do you want to make a difference?

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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.



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

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Timeless author, Henry David Thoreau, once wrote, "It is not enough to be busy. So are the ants. The question is: What are we busy about?"

Well, to answer Mr. Thoreau's question, personally, in addition to my work and AIChE commitments, I have spent a fair amount of my time over the past few months preparing for the upcoming Professional Engineering exam that I will sit for on Friday, April 17<sup>th</sup>. It has undoubtedly been an arduous and stressful task trying to re-learn material that my specialty of process controls doesn't address on a day-to-day basis and that was presented to me over five or more years ago. But I have been motivated to obtain my P.E. license for a while now and to advance my career in the process, so I can't let up now. I wish the best of luck though to anyone taking it with me!

As for the Baton Rouge chapter, we are continuing to be vigorous in our attempts to grow the organization and strengthen the chemical engineering presence in the Red Stick. April and May are our peak months of activity in the spring season. In addition to our monthly meeting, we have Executive Committee Member and Past Chapter Chair, Jimmy Orr, finalizing our Spring Seminar; I'm coordinating arrangements for the 58<sup>th</sup> Annual Charles E. Coates Award Banquet; and as the LSU students finish out the term, the chapter will work with the LSU chapter to help new graduates working in the area transition into their young professional careers. It's certainly an ambitious outlook, but I hope you'll be able to join us for all of it!

*Stephen Reilly*



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The LSU College of Engineering, Center for Computation & Technology,  
and the Office of Research & Economic Development present the third  
annual workshop on

## **ENABLING PROCESS INNOVATION THROUGH COMPUTATION (EPIC)**

**KEYNOTE LECTURE BY PROF. L. S. FAN, PHD DISTINGUISHED UNIVERSITY PROFESSOR, OHIO STATE  
UNIVERSITY**

**CHEMICAL LOOPING TECHNOLOGY PLATFORM: IMPACT OF MODELING AND COMPUTATION**

**May 1, 2015**

**8:00 a.m. - 4:30 p.m.**

**Digital Media Center, LSU Campus in Baton Rouge**

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**Register for FREE at [www.cct.lsu.edu/forms/epic\\_2015](http://www.cct.lsu.edu/forms/epic_2015)**

For additional details: (225) 278-7174, [admin@epic.lsu.edu](mailto:admin@epic.lsu.edu) or [www.cct.lsu.edu/EPIC2015](http://www.cct.lsu.edu/EPIC2015)





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ADCO Companies, LTD. began in 1963, as a one-man service operation. We have grown today to be the largest boiler company in Alabama and Louisiana, serving businesses throughout our respective territory and throughout the Southeast.



## 2015 Section Contacts

### Officers

<b>Chair:</b>	Stephen Reilly, <a href="mailto:Stephen.Reilly@ProSys.com">Stephen.Reilly@ProSys.com</a>
<b>Vice Chair:</b>	Lauren Hartley, <a href="mailto:LHartley@TrinityConsultants.com">LHartley@TrinityConsultants.com</a>
<b>Secretary:</b>	William Buck, <a href="mailto:William.Buck@Willbros.com">William.Buck@Willbros.com</a>
<b>Treasurer:</b>	Oscar Alfaro, <a href="mailto:Oscar.Alfaro@Jacobs.com">Oscar.Alfaro@Jacobs.com</a>

### Executive Committee Members

Glenn Bryson	<a href="mailto:BGBryson@BellSouth.net">BGBryson@BellSouth.net</a>
Jimmy Orr	<a href="mailto:Jimmy.Orr@Jacobs.com">Jimmy.Orr@Jacobs.com</a>
Noel Ricord	<a href="mailto:LCNoel55@aol.com">LCNoel55@aol.com</a>
W. Clark Snyder	<a href="mailto:WClarkSnyder@hotmail.com">WClarkSnyder@hotmail.com</a>
Louis J. Thibodeaux	<a href="mailto:Thibod@LSU.edu">Thibod@LSU.edu</a>

### Committees

<b>Awards:</b>	(OPEN POSITION)
<b>Education:</b>	(OPEN POSITION)
<b>High School Grants:</b>	W. Clark Snyder, <a href="mailto:WClarkSnyder@hotmail.com">WClarkSnyder@hotmail.com</a>
<b>Newsletter:</b>	Armando Corripio, <a href="mailto:Corripio@LSU.edu">Corripio@LSU.edu</a>
<b>Nominations:</b>	Donna Bryant, <a href="mailto:donna.bryant@syngenta.com">donna.bryant@syngenta.com</a>
<b>Public Relations:</b>	Ken Campbell, <a href="mailto:kencamp99@yahoo.com">kencamp99@yahoo.com</a>
<b>Communications:</b>	Brandon Lithgoe, <a href="mailto:blithgoe@yahoo.com">blithgoe@yahoo.com</a>
<b>Professional Development:</b>	Randy Goodman, <a href="mailto:Randy.Goodman@LA.gov">Randy.Goodman@LA.gov</a>
<b>Seminars:</b>	(OPEN POSITION)
<b>Membership:</b>	Glenn Bryson, <a href="mailto:BGBryson@BellSouth.net">BGBryson@BellSouth.net</a>

### 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.

# **AIChE Baton Rouge Seminar**

**(preliminary notice)**

**NFPA-20 Fire Water Pumps, Pipeline Hot Tapping & Plugging,**

**Coastal Erosion, Residential Solar Power, Engineering Ethics**

**Friday, May 1, 2015**

**8:00AM – 4:00PM**

**Location: Holiday Inn South (upstairs meeting room)**

**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 28 Apr 15

(Please check appropriate box) ☐ \$95/person for non-Tech/Prof Society Members prior to 28 Apr 15

☐ \$110/person for all after 28 Apr 15



**MAIL COMPLETED REGISTRATION FORM TO:**

(Please include check if that is your payment option)

Must be RECEIVED by 28 Apr 15

(Walk-ins welcome space permitting.)

Check or cash only, no credit cards on event day.)

Oscar Alfaro (Treasurer)

1124 W Lakeview Dr.

Baton Rouge, LA 70810

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

**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 14 days prior to the date of the seminar. Notice received between 16 Apr 15 and 30 Apr 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 May 1, 2015 Seminar**

**(upstairs meeting room)**

**Tentative Schedule**

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

**8:00 AM – 9:30 AM: MORNING SESSION**

**NFPA-20 Fire Water Pumps**

Jim Perry (Gulf State Engineering)

**9:30 AM – 11:00 AM: MORNING SESSION**

**Pipeline Hot Tapping & Plugging**

Paul Poppell (T.D. Williamson Inc)

**11:00 AM – 12:00 PM: MORNING SESSION**

**Coastal Erosion**

Robert Routon (Coastal Protection & Restoration Authority)

**12:00 PM – 1:00 PM: LUNCH**

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

## Residential Solar Power

Craig Page (Optimize Solar)

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

## Engineering Ethics

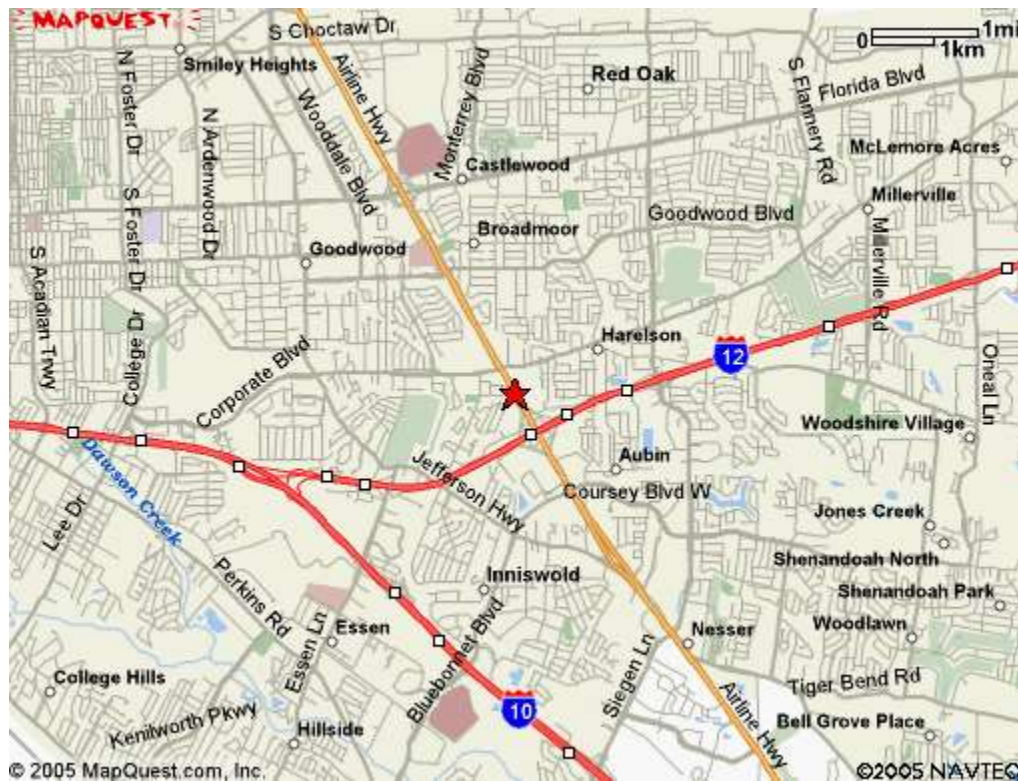
Chris Knotts (LAPELS & La DOT)

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)