



Baton Rouge Newsletter

Year 27, Number 5

www.aiche-br.org

January 1, 2017

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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.

January Dinner Meeting

Date: Thursday, January 19, 2017

Place: King's Buffett, Bluebonnet Boulevard across from The Mall of Louisiana

Speaker: **Dr. Phillip Sprunger**, LSU Superfund Research Center, Department of Physics and Astronomy

Topic: *LSU Superfund Program: Understanding atomistic details of environmentally persistent free radicals*

Agenda: 5:30 PM – Registration and social (Cash Bar)
6:00 PM – Buffet
6:05 PM -- Business—Election of 2017 Local Section Officers
6:15 PM -- Speaker

Menu: Complete Chinese buffet selections, soft drinks, coffee, tea

Cost: \$20 per person (Members \$15, Students \$10)

RESERVATIONS

Please make your reservation with chapter secretary, Donna Bryant, **by 5:00 PM on Tuesday, January 17th** at donna.bryant@syngenta.com

No reservations required. Bring a friend.

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 2017 Events / Speakers

Jan 26 5th Annual LSU-AIChE Industry panel at 6 PM. Room 105 Tereaud Hall.

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, William Buck, at William.Buck@WinkEngr.com to schedule a meeting date and time.

January Dinner Meeting Topic

This talk will first overview the scope and mission of the LSU Superfund project, which focusses on the formation, stabilization, and health consequences of environmentally persistent free radicals (EPFR). Upon reviewing the backdrop of our program, I will focus on what we know about the surface chemistry of EPFR stabilization on metal oxide nanoparticles and clays. This includes a brief summary of how we probe with electrons, photons, and neutrons, the atomistic details of organic-metal oxide adsorptions/reactions.

Dr. Phillip Springer, January Meeting Speaker



Although originally starting his undergraduate days as a chemist, Phil later went on and received his Ph. D degree in condensed matter physics from the University of Pennsylvania. He worked as a postdoctoral researcher (chemical physics) at Aarhus University in Denmark before he arrived in Baton Rouge in 1996. His research area is focused on electronic, atomic, and chemical properties of low dimensional materials and devices, such as metal and oxide surfaces/interfaces and nanomaterials. The goals are to understand the fundamental physics and chemistry at these low dimensional environments and their respective applications. These include understanding and the development of new materials for catalytic, environmental, and advanced manufacturing applications.

5th Annual LSU-AIChE Industry Panel

The panel of industrial and engineering company representatives answers questions by the LSU chemical engineering students on careers in industry and engineering consulting, and on what it is like to work as a chemical engineer. It will take place in room 105 Tereaud Hall at LSU, South Stadium Drive, on Thursday, January 26, at 6 PM. Volunteers are needed to represent the companies and answer questions. To form part of the panel contact Stephen Reilly at Stephen.Reilly@ProSys.com.

He whose heart is in the smallest degree set upon goodness will dislike no one.
Ancient Chinese Proverb

GCIExpo

Gulf Coast Industrial Expo

GONZALES, LA
LAKE CHARLES, LA
BEAUMONT, TX

...and soon to be Corpus Christi & Mobile

www.GCIExpo.com

Tuesday January 31, 2017

Gonzales, LA
Lamar Dixon Expo Center

INDUSTRIAL TRADE SHOW
& CONFERENCE

For additional speakers see
our website at GCIExpo.com

LIVE FIRED TEST FURNACE

If your job is operating, maintaining or upgrading your facility fired heaters or reformers, don't miss this opportunity. **Mr. David Schmitt** CEO of Increase Performance (www.increase-performance.com) and **Mr. Jack Hardie** of JH Consultant (www.jhconsultant.com) and consultant to Increase Performance will be available for demonstrations and your questions.

Earn PDH

Down Fired Kellogg Reformer



- Poor distribution of radiant heat
- Excessive heat on burner tiles
- Burner tile failure falling damaging tunnel refractory
- High process tubes temperature near burners
- At firing capacity on burners
- High NOx



- Excellent even radiant heat
- No overheating tiles
- Damage eliminated
- Process tubes temperature normal
- 22% additional capacity
- 40% NOx reduction
- 1-2% increase in efficiency

LFTF17-109

Register Online and come on out to the show. www.GCIExpo.com

From the Chapter Chair's Pen

At our December dinner meeting we were unable to conduct our elections for officers since we failed to meet a quorum of 15% of our membership per our bylaws. Our January meeting is our next best opportunity to confirm our new slate of officers.

Clark Snyder – Chair

Donna Bryant – Vice Chair

Chelsea Bourdon – Secretary

Jimmy Orr – Treasurer

Executive Committee – Glenn Bryson

On January 19th we will be meeting at King Buffet at 5:30 pm. Let's show up in force. We will need 30 members for a quorum. Let's talk it up among our co-workers and colleagues and target to get the number needed to conduct the elections.

Our speaker that night is Dr Phil Sprunger from the LSU Superfund Research Center and the LSU Department of Physics and Astronomy. He should have a very good topic of interest to all Chemical Engineers.



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2016 Section Contacts

Officers

Chair: William Buck, William.Buck@WinkEngr.com
Vice Chair: W. Clark Snyder, WClarkSnyder@hotmail.com
Secretary: Donna Bryant, Donna.Bryant@Syngenta.com
Treasurer: Oscar Alfaro, Oscar.Alfaro@Jacobs.com

Executive Committee Members

Glenn Bryson, BGBryson@BellSouth.net
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Noel Ricord, LCNoel55@aol.com
Stephen Reilly, stephen.reilly@prosys.com
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Committees

Awards: Dal Dalferes, Joseph.Dalferes@jacobs.com
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Nominations: Parul Patel, Parul_Prpatel@yahoo.com
Professional Development: Randy Goodman, Randy.Goodman@LA.gov
Seminars: Jimmy Orr, Jimmy.Orr@Jacobs.com
Sponsorship: Stephen Reilly, Stephen.Reilly@Prosys.com
Young Professionals: Erick Flores, EFlore5@LSU.edu

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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**Wink Engineering
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proudly support the AIChE**

**and congratulate Baton Rouge Chapter President,
William D. Buck, P.E.**

Forged from the Past. Engineered for the Future.