



Baton Rouge Newsletter

Year 26, Number 9

www.aiche-br.org

May 1, 2016

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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.

Coates Award Banquet

Date: Tuesday, May 10, 2016

Place: Ashley Manor, 14214 Old Hammond Highway, Baton Rouge, LA

Speaker: **Mr. Brandon P. Lithgoe**, Senior Environmental Engineer, Williams Olefins.

Topic: *The Baton Rouge Ozone Problem*

Agenda: 6:00 PM – Registration and social (cash bar)

7:00 PM – Dinner

7:30 PM – Awards Ceremony

8:00 PM – Coates Address

Menu: Buffet menu: Stuffed pork loin, Eggplant Ponchartrain, roasted potatoes, steamed vegetables, salad, and dessert. Dietary restrictions by arrangement.

Cost: \$35 per person

RESERVATIONS

Please make your reservation with chapter secretary, Donna Bryant, **by 5:00 PM on Friday, May 6th** at

donna.bryant@syngenta.com

Reservation required

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 2016 Events / Speakers

May 6 Spring Seminar (7 PDH), Air Compressors, Plant Air Systems, Project Management, Process Safety

Summer 3rd Annual Trivia Night (TBA, see page 3)

Sep 22 Tour of **Orion Instruments**. Food and beverages provided by Orion.

Oct 20 **Daniel Smith**, Albemarle, *Chemical Property Methods*.

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.

May Meeting Abstract

The Baton Rouge area has been fighting a ground level ozone problem for close to 40 years. Just as soon as the region becomes compliant with a federal standard a newer, lower standard is mandated, forcing the area to remain non-compliant. There are far reaching and costly implications to non-compliance that affect all stakeholders: industry, government, and citizens. Much progress has been made over the years thanks to the participation and hard work of all the stakeholders and it has led to cleaner, healthier air. But the ozone problem is not solved and we will continue to battle it for years to come. In his presentation Brandon will describe the problem, provide a historical perspective, detail the accomplishments that have been made thus far and offer suggestions for the best way to address it going forward.

Brandon P. Lithgoe, Coates Award Recipient



Brandon Patrick Lithgoe is the Senior Environmental Engineer at Williams Olefins in Geismar, La. He joined the American Institute of Chemical Engineers (AIChE) as a Student Member in 2000 while in college. He currently has Senior Member status at AIChE and is a member of the Environmental Division. Brandon is also a member of the Air and Waste Management Association (AWMA). He received a Bachelor of Science degree in Chemical Engineering from the University of California, San Diego in 2003.

Born and raised in California, Brandon re-located to Baton Rouge in 2003 upon graduating from UCSD and began his professional career at the Baton Rouge office of ENVIRON International, an environmental consulting firm, where he specialized in permit and compliance support to the local petrochemical industry. His experience includes obtaining the required construction and operating permits for major industrial expansion projects, as well as providing the necessary expertise to comply with state and federal environmental regulations. He joined the environmental department at Williams in 2011 where he works today.

Brandon has served the Baton Rouge Section of AIChE as Treasurer, Vice Chair, Chair, and Executive Committee Member. He has planned and lead numerous monthly Section meetings, organized or otherwise assisted in the planning of several semi-annual Technical Seminars, served as the Section representative at Local and State Science Fairs, and lead AIChE's participation at the ACS "Super Science Saturday" event. He currently leads the Communications Committee for the Section and is in charge of mass communications and website maintenance.

Brandon met his wife Sharyn when she purchased the house next to his in 2005. They were married in 2011 and continue to reside in the same Baton Rouge neighborhood in which they met. A distance runner, he has completed six marathons, numerous half marathons, and plans on completing many more.

Giving is the secret of a healthy life. Not necessarily money, but whatever a person has of encouragement and sympathy and understanding.

John D. Rockefeller, Jr.

The Third Annual AIChE Trivia Night Coming This Summer

With another summer break before us, the chapter is planning out its highly-anticipated annual contest of wits and skills. To appeal to the young (and young-at-heart) professionals in the area, we would like to hear from you about suggestions for

- locations (and their associated costs, if known) worth hosting the event.
- ideal dates and times between late June to late August to host it
- desired prizes to offer to the winning team(s)
- companies willing to help sponsor our event

Please send any feedback to Immediate-Past Chair, Stephen Reilly, at stephen.reilly@prosys.com at your convenience. Thanks in advance!

Recap of the April Meeting

Dr. Twilley with the Louisiana Sea Grant at LSU guided a great discussion at our April meeting discussing the problems we face today in our state and outlined a multiphase plan proposed to mitigate these issues. It is clear that we can't let the Mississippi river pick and choose its natural path as it did 200 years ago. Many jobs are at stake in New Orleans as a world class port and the economic impacts must be balanced against the everyday lifestyle that is at stake in the areas between Lake Charles and New Orleans. Fully 25% of oil and gas production is at stake along with our fishing industry, which is led by Louisiana nationwide. Terrebonne Bay is ground zero and we must rebuild by design and science using a systems approach over the next four generations. Many thanks to Dr. Twilley for an enlightening and engaging topic and accompanying discussion.

From the Chapter Chair's Pen

May is traditionally the month of spring and gardening. There is growth all around us. Our chapter also embraces growth and new opportunities. Our local chapter is looking to fill an education committee and nominations committee slot. I have gotten some interest in these positions. We will decide at our July executive meeting. If anyone wants to volunteer please email me at wdbuck@me.com. Serving AIChE is a good professional growth opportunity for members to get involved with the local chapter. This month our May meeting will be a celebration of the Coates Award for our own Brandon Lithgoe. Brandon's service to AIChE and his commitment to environmental awareness is truly worth the accolades. Please join us on May 10th for the celebration. Our summer activity line up will include the executive committee meeting in July and also a Trivia Night. The Trivia Night should occur in late July or August. Details will be announced later this summer. I am looking forward to our September meeting where we have another excellent plant tour arranged with Orion Instruments.

Enjoy the warmer weather this summer and stay safe.



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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
Jimmy Orr Jimmy.Orr@Jacobs.com
Noel Ricord LCNoel55@aol.com
Stephen Reilly stephen.reilly@prosys.com
Armand Melikyan Armand.Melikyan@WinkEngr.com

Committees

Awards: Dal Dalferes, Joseph.Dalferes@jacobs.com
Communications: Brandon Lithgoe, blithgoe@Yahoo.com
Education: (OPEN)
High School Grants: W. Clark Snyder, WClarkSnyder@hotmail.com
Membership: Glenn Bryson, BGBryson@BellSouth.net
Newsletter: Armando Corripio, Corripio@LSU.edu
Nominations: (OPEN)
Professional Development: Randy Goodman, Randy.Goodman@LA.gov
Seminars: Jimmy Orr, Jimmy.Orr@Jacobs.com
Sponsorship: Stephen Reilly, Stephen.Reilly@Prosys.com

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.

AIChE Baton Rouge Spring Seminar

Plant Air Systems, Project Management, Fertilizer Plant Explosion, Process Safety Controls Perspective

Friday, May 6, 2016
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, 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 02-May-16
(Please check appropriate box) \$95/person for non-Tech/Prof Society Members prior to 02-May-16
 \$110/person for all after 02-May-16

MAIL COMPLETED REGISTRATION FORM TO:

(Please include check if that is your payment option)

Must be RECEIVED by 02-May-16

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

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 02-May-16 and 05-May-16 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 6, 2016 Seminar

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

8:00 AM – 10:00 AM: MORNING SESSION

Plant & Instrument Air Design Considerations

Mike Austin (Atlas Copco)

Introduction of topics

- Review of Plant and Instrument Air System
- What is Instrument air?
- Overview of system configuration(s)

Selecting the correct Compressor Technology

- Piston
- Oil Injected Screw
- Oil Free Screw
- Centrifugal

Air Dryer Technology-Which is appropriate?

- Heatless
- Externally Heated
- Blower Purge
- Heat of Compression

Other Considerations

- Cooling-Air Cooled or Water Cooled
- Power-Low Voltage, Medium voltage, diesel
- Area Classifications

System Energy Savings

Question and Answer

[About the presenter:](#)

Mike Austin is Sales Manager for Oil Free and Engineered Products – Atlas Copco Compressors LLC. He has a BS in Chemistry degree from LSU. Mike has extensive experience in Compressed Air System design. This includes Maintenance and Reliability of Piston, Rotary Screw, Rotary Lobe, and Centrifugal Compressors. He serves on the API-672 Advisory Committee. Mike also serves as a Moderator on the GSRMS Advisory Committee. He holds a CAC Level II. Overall Mike has 45-years experience in the Process Equipment Industry.

10:00 AM – 12:00 AM: MORNING SESSION

The Project Management Institute (PMI) Approach to Project Management

Charles Durr (PMP, Six Sigma Black Belt, CMII, CMIS)

The presentation will cover the PMI approach to Project Management. The method is based on a combination of 5 Process Groups and 10 Knowledge Areas. As the Scope Planning process is reviewed, the importance of a detailed Work Breakdown Structure (WBS) is highlighted. Overall management includes how the WBS impacts Planning, the Execution Processes, the Monitoring and the Control Processes.

[About the presenter:](#)

Charles Durr has over 40-years of Information Technology experience. This includes 15-years in Software Development, 14-years in Data Center Management, and 10-years of IT Project Consulting. Major Project management experience includes

- Building and staffing three new data centers
- Implementing two Mobil Data Department of Justice COPS MORE Grants including seven law enforcement agencies valued at \$3.2 MM
- Installation & implementation of five site Homeland Security Presidential Directive 12 Physical Access control at the Strategic Petroleum Reserves.

Charles is currently associated with Global PM in Slidell as a PMP (Project Management Professional) Certification Prep instructor. He is also a Microsoft Project instructor/consultant. Charles previously served 3-years on the PMI New Orleans Chapter Board of Directors. He is a Graduate of the University of Louisiana Lafayette.

12:00 PM – 1:00 PM: LUNCH

1:00 PM – 3:00 PM: AFTERNOON SESSION

Lessons Learned from West Texas Fertilizer Plant Explosion

Manny Ehrlich (U.S. Chemical Safety and Hazards Investigation Board)

On April 17, 2013 a horrifically devastating explosion took place in the West Fertilizer Company facility in West Texas. Fifteen lives were lost and in excess of 250 people injured. Property loss will be in excess of \$100 million dollars.

This presentation will examine the findings of the CSB's investigation in to the incident. The primary focus being on the lessons learned and the recommendations moving forward. Special emphasis to be placed what you can do in your communities and areas of responsibility to assure that there is never a similar accident on your watch.

About the presenter:

Manny Ehrlich, was nominated by President Barack Obama to the U.S. Chemical Safety and Hazard Investigation Board in January of 2014 and confirmed by the Senate in December 2014. Prior to his appointment Mr. Ehrlich spent over 50 years in the chemical industry in a variety of positions. Most recently he served as a health, safety and environmental consultant to a broad range of companies across the country.

Mr. Ehrlich spent much of his career with BASF Corporation, one of the largest chemical companies in the world. During his time at BASF Mr. Ehrlich worked in a variety of roles, including plant management and eventually leading emergency response efforts across North America. In this capacity he responded to, managed and investigated numerous hazardous materials incidents in the U.S., Canada and Mexico.

Mr. Ehrlich served as the on call chemist for the Chemical Transportation Emergency Response Center (also known as CHEMTREC) in the U.S., a 24-hour service that assists responders on the scene of chemical incidents. He also served as a member of the National Fire Protection Association's committee that develops competency standards for chemical emergency responders.

Mr. Ehrlich has a B.S. in Chemistry from Drexel Institute of Technology, completed graduate studies in chemistry from Temple University and St. Joseph's College, completed graduate studies in chemical engineering from New York University and received an Ed.M. and M.A. in Counseling Psychology for Business and Industry from Columbia University.

3:00 PM – 4:00 PM: AFTERNOON SESSION

Process Safety Management from a Controls Perspective

Karen D. Morton, P.E., FSEng (**Hargroove Controls & Automation**)

Process safety management (PSM) has become an important factor in the design and operations of facilities that use potentially explosive and poisonous chemicals. In the U.S., certain processes are covered under the OSHA PSM regulation and implementation incorporates technical standards from multiple engineering disciplines

including mechanical and instrumentation. This overview presentation includes the following topics:

- Process Safety Management Technical Standards and Regulations
- Process Controls and Safety Concepts
- Risk Reduction Methods and Layers of Protection
- Safety Instrumented Systems Overview

[About the presenter:](#)

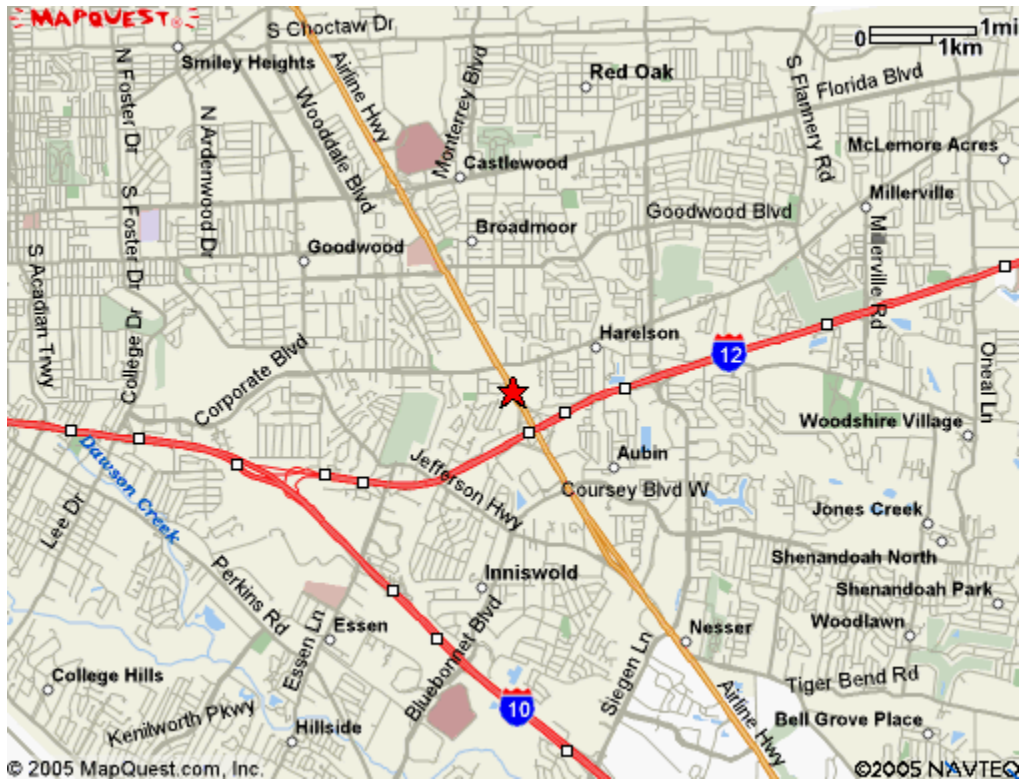
Karen Morton has worked as an engineer with process safety and control systems projects in South Louisiana's petrochemical industry since 1995. She is a licensed professional engineer in Louisiana, Texas, New Jersey and Alabama. She also has functional safety engineering certification from TÜV Rheinland. Karen works at Hargrove Controls + Automation in Baton Rouge as a C+A SIS Technical Consultant, where she concentrates on process safety management related projects. Karen co-authored the reference guide *Applied Mathematics for Safety Engineers* (published by the American Society of Safety Engineers). She and her husband, retired control systems engineer Walter M. Scott, III, are volunteer instructors for Baton Rouge's Cajun Clickers Computer Club. They were co-hosts on WJBO's "Cajun Clickers Computer Show" from 2002 - 2008. Her many hobbies include running, photography, jewelry making, writing and science fiction.

Note: Due to travel, sickness or unforeseen events - 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)