



# Baton Rouge Newsletter

Year 28, Number 9

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

May 1, 2018

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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.

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## *Charles E. Coates Award Banquet*

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**Date:** Wednesday, May 9<sup>th</sup>, 2018

**Place:** Ashley Manor, 14214 Old Hammond Highway. 272-0136. (Map on page 4)

**Topic:** *Reminisce About Changes in the Chemical Engineering Workplace (1975-2018)*

**Speaker:** **Jimmy Orr**, 2018 Coates Award Recipient

**Agenda:** 6:00 – Social  
7:00 – Dinner, Award, Address

**Menu:** Buffet: Baked fish, pork loin, roasted potatoes, steamed vegetables, salad, rolls, dessert. Vegetarian pasta by special request.

**Cost:** \$35 per person.

### **RESERVATIONS**

Please make your reservation with chapter secretary, Chelsea Bourdon, **by 5:00 PM on Thursday, May 3rd** at [CBourdon@Hargrove-EPC.com](mailto:CBourdon@Hargrove-EPC.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.

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## *Other Upcoming 2018 Events / Speakers*

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**Fr. May 18** Seminar on Combustion Technology and Ethics, Oak Lodge, 8 PDHs.

*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, Donna Bryant, at [Donna.Bryant@Syngenta.com](mailto:Donna.Bryant@Syngenta.com) to schedule a meeting date and time.*

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## *Jimmy Orr, 2018 Coates Award Recipient*

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Jimmy Don Orr is a Senior Process Engineer at Jacobs Engineering in Baton Rouge. A licensed Professional Engineer, he joined the AIChE in 1993 and holds the grade of Fellow; he received a B.S. in Ch. E. from the University of Houston in 1974 and a M.S. in Ch. E. from Texas A&M in 1978 working under Professor Ron Darby. During undergraduate studies he participated in the Cooperative Education Program with Dow Chemical.

Jimmy started working for Dow in Freeport Texas on catalyst research for ethylene oxychlorination and oversaw reactor startups in Korea and Germany. Later he transferred to Dow in Louisiana as a production engineer in chlorinated solvents, hydrogen chloride and hazardous waste incineration. He later became lead engineer in pollution abatement projects involving chlorine, HCl and chlorinated solvents. He also worked briefly as a control engineer. He received two awards for projects on energy conservation and waste reductions, and wrote a Corporate Quality Standard to minimize “Long Term Cost of Ownership” for Skids and Modules. He co-authored a US Patent titled “Removal of Acetylene from Anhydrous Hydrogen Chloride”.

Jimmy has worked for DSM CoPolymer Baton Rouge and Nalco Chemical in Garyville, LA. Since 2007 he has served as Senior Process Engineer, Design Consistency Checker and mentor to inexperienced personnel for Jacobs Engineering.

Jimmy has served the local section of AIChE as Chair, vice-Chair, Secretary, Treasurer, Executive Committee and Seminar Chair. In 2014 the National AIChE awarded Jimmy a “Shining Star” for volunteer service. He has been a Cub Scout Den Leader, a Cub Scout Pack Leader, a Tee-ball Coach, a PTA Treasurer, a ROTC Scoring judge and water station volunteer for the Baton Rouge Marathon. He has also served as a judge for 30+ Science Fairs since 2005 and helps with Professor Stanley’s “Super Science Saturday” at LSU.

Jimmy and his wife Kathy have raised three fine boys.

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## *Recap of the Financial Happy Hour Mixer*

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On Thursday April, 12 members of the AIChE Baton Rouge chapter and students from the LSU chapter got together at the Bengal tap room in downtown Baton Rouge for a happy hour financial planning presentation. Michael Sellitto and Brad Borden with Compass Capital Management gave a presentation going over the fundamentals of wealth management and financial planning. First we went over general guidelines, then the second half was a more practical approach looking at planning and setting goals. The presentation was engaging with the audience and very educational for the several young professionals and students in attendance. Thanks to Stephen Reilly and Donna Bryant for coordinating with Compass Capital Management and the Bengal Tap Room to set up this event. Additional thanks to LSU chapter president Andrew Watkins for promotional support with the LSU chapter.

***In my humble opinion, non-cooperation with evil is as much a duty as cooperation with good.***

***--Mahatma Gandhi***

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## *From the Chapter Chair's Pen*

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Thank you to all of those that helped at the Southern Regional Conference at LSU earlier this month! It was very successful and exciting to see all the ideas the students from universities across the South and Puerto Rico came up with to fuel and stop their cars. Those of us that helped LSU during the conference were able to judge the different chemical engineering cars on their safety. Some stayed for the competition and were able to witness the excitement as the top 5 teams finished within 1 meter of the line. Known chapter members that helped at the conference that I would like to personally thank in helping were Erick Flores, Daniel Candler, Rick Blackstone, and Ross Roussel.

Our next chapter meeting on May 9<sup>th</sup> is going to be a very exciting one! Jimmy Orr, our chapter's Treasurer, will be honored for both his contribution in the chemical engineering field and AIChE with the Coates Award. It will be one filled with good food, good company, and good discussions since Jimmy will be talking about the changes that have happened in the engineering work place. You can see more information about it in this newsletter.

We will be wrapping up our spring semester activities with our Spring Seminar on May 18<sup>th</sup> that focuses on combustion technology, new regulations that are coming out about flares and ethics. This seminar will cover 8 PDHs.

Hope to see you at one of these upcoming events. If you are interested in helping out with the fall activities, please contact either myself or Vishal Vora.

*Donna Bryant*, 2018 Chair



# 2018 Section Contacts

## Officers

|                    |   |
|--------------------|---|
| <b>Chair:</b>      | Donna Bryant, <a href="mailto:Donna.Bryant@Syngenta.com">Donna.Bryant@Syngenta.com</a>    |
| <b>Vice Chair:</b> | Vishal Vora, <a href="mailto:VVVora@Gmail.com">VVVora@Gmail.com</a>                       |
| <b>Secretary:</b>  | Chelsea Bourdon, <a href="mailto:CBourdon@Hargrove-EPC.com">CBourdon@Hargrove-EPC.com</a> |
| <b>Treasurer:</b>  | Jimmy Orr, <a href="mailto:Jimmy.Orr@Jacobs.com">Jimmy.Orr@Jacobs.com</a>                 |

## Executive Committee Members

|                 |  |
|-----------------|--|
| Glenn Bryson    | <a href="mailto:GBBryson@BellSouth.net">GBBryson@BellSouth.net</a>         |
| Noel Ricord     | <a href="mailto:LCNoel55@aol.com">LCNoel55@aol.com</a>                     |
| Armand Melikyan | <a href="mailto:AMelikyan@Hargrove-EPC.com">AMelikyan@Hargrove-EPC.com</a> |
| William Buck    | <a href="mailto:William.Buck@WinkEngr.com">William.Buck@WinkEngr.com</a>   |
| W. Clark Snyder | <a href="mailto:WClarkSnyder@hotmail.com">WClarkSnyder@hotmail.com</a>     |

## Committees

|                                  |   |
|----------------------------------|---|
| <b>Awards:</b>                   | Dal Dalferes, <a href="mailto:Joseph.Dalferes@jacobs.com">Joseph.Dalferes@jacobs.com</a>      |
| <b>Communications:</b>           | Brandon Lithgoe, <a href="mailto:BLithgoe@Yahoo.com">BLithgoe@Yahoo.com</a>                   |
| <b>Education:</b>                | Erick Flores, <a href="mailto:EFlore5@LSU.edu">EFlore5@LSU.edu</a>                            |
| <b>High School Grants:</b>       | W. Clark Snyder, <a href="mailto:WClarkSnyder@hotmail.com">WClarkSnyder@hotmail.com</a>       |
| <b>Membership:</b>               | Glenn Bryson, <a href="mailto:GBBryson@BellSouth.net">GBBryson@BellSouth.net</a>              |
| <b>Newsletter:</b>               | Armando Corripio, <a href="mailto:Corripio@LSU.edu">Corripio@LSU.edu</a>                      |
| <b>Nominations:</b>              | Noel Ricord, <a href="mailto:LCNoel55@aol.com">LCNoel55@aol.com</a>                           |
| <b>Professional Development:</b> | Randy Goodman, <a href="mailto:Randy.Goodman@LA.gov">Randy.Goodman@LA.gov</a>                 |
| <b>Seminars:</b>                 | Armand Melikyan, <a href="mailto:Armand_Melikyan@hotmail.com">Armand_Melikyan@hotmail.com</a> |
| <b>Sponsorship:</b>              | Stephen Reilly, <a href="mailto:Stephen.Reilly@emerson.com">Stephen.Reilly@emerson.com</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.



## Paul W. Murrill (1934-2018)

One of the most influential chemical engineers of our section passed away on April 2. Paul Murrill, 1975 recipient of the Coates Award, was Professor of Ch.E., Provost, and Chancellor of LSU. He was a positive influence on many of us. He changed our lives. Our sympathies go to his wife Nancy, his sons and his grandchildren.

# **AIChE Baton Rouge Spring / 2018 Seminar**

## **Combustion Technology Seminar + Engineering Ethics**

**MORNING SESSION: Thermal Oxidation Technologies / NO<sub>x</sub> Minimization /  
Flameless Thermal Oxidation Technologies / Bio Oxidation**

### **Topic Description**

#### **Design Fundamentals for Oxidation Technologies**

An overview of common oxidation technologies, the input/output information required to select the correct oxidation technology for the application and the typical design parameters used to properly design and engineer an oxidation system. The presentation will cover the basic fundamentals and associated steps required to develop a compliant system.

#### **Multi-Stage Thermal Oxidizer – NO<sub>x</sub> minimization**

General overview of the need to reduce NO<sub>x</sub> emissions, NO<sub>x</sub> formation mechanisms and how to minimize NO<sub>x</sub> formation within the combustion process with primary focus on Multi-Stage Thermal Oxidation. Basic description of the technology, its functionality and how it effectively reduces NO<sub>x</sub> emissions.

#### **Flameless Thermal Oxidation – An Innovative Technology**

An overview of the technology, design parameters, functional characteristics and the performance values. A high removal efficiency, 99.9999% DRE and very low NO<sub>x</sub> emission levels, < 1ppmv.

#### **Bio-Oxidation Technology for the treatment of Industrial Air**

Basic technological overview, functionality, and general operational parameters needed to successfully treat air borne VOC's biologically.

**AFTERNOON SESSION: New Flare Compliance Regulations for Refineries / Flare  
Monitoring Technologies / Engineering Ethics**

### **Topic Description**

#### **Flare Compliance Regulations – Overview of New Flare Compliance Regulations for Refineries**

**A Consultant's Presentation: Your refinery only has until January 30, 2019, to bring your  
flares into compliance with new § 63.670 "Requirements for Flare Control**

### **Flare Monitoring Systems**

There was no instrument that could directly monitor flare performance and provide feedback to optimize flare operations. A new technology has been developed to answer this challenge. The new technology is called “Video Imaging Spectral Radiometry” (VISR). VISR monitors flare combustion efficiency directly, remotely, autonomously, and continuously. It also monitors smoke in the flare flame. With both combustion efficiency and smoke level information, operator can achieve “incipient smoke point” operation, which has the highest combustion efficiency without smoke, and have lowest energy consumption and emissions. VISR can be integrated into flare instrumentation to achieve close loop control.

### **Engineering Ethics**

A Presentation on Engineering Ethics

**Combustion Technology Seminar**  
**+ Engineering Ethics**

**Friday, May 18, 2018**  
**8:00AM – 5:00PM**

**Location: Oak Lodge Reception & Conference Center**  
2834 S. Sherwood Forest Blvd. Suite E-1 Baton Rouge, Louisiana 70816, (225) 291-6257

**Earn 8 PDH's! Enrollment is Limited! Sign-Up Early!**

**REGISTRATION FORM**

**NEW!** Register online at [www.aiche-br.org](http://www.aiche-br.org) and pay by credit card using PayPal, 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:**  \$85/person for Tech/Prof Society Members\* prior to 13-May-18  
(Please check appropriate box)  \$95/person for non-Tech/Prof Society Members prior to 13-May-18  
 \$110/person for all after 13-May-18

**MAIL COMPLETED REGISTRATION FORM TO:**  
Armand Melikyan (Seminar Coordinator), P.O. Box 84787, Baton Rouge, LA 70884  
Email: [armand\\_melikyan@hotmail.com](mailto:armand_melikyan@hotmail.com) **Phone:** (225) 773-0468  
(Please include check if that is your payment option)

Check or cash only, no credit cards on event day Walk-ins welcome space permitting.

\*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 09-May-2018 and 17-May-2018 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.

**EVENT: Combustion Technology Seminar (7 PDHs);  
+ Engineering Ethics (1 PDH)**

**DATE: May 18th, 2018**

**PROPOSED AGENDA:**

**7:30 A - 8:00 A Breakfast**

**8:00 A –11:30 A Thermal Oxidizers (PCC Combustion /ONYX)**

**11:30 A – 12:30 P Lunch (provided by AIChE)**

**12:30 P – 1:30 P New Flare Compliance Regulations for Refineries (Providence)**

**1:30 P – 4:00 P Flare Monitoring Systems (Providence)**

**4:00 P – 5:00 P Engineering Ethics (Jacobs)**

Presenters:

Mr. Scott Burge, Vice President Sales/Application Engineering  
Process Combustion Corporation – Oxidation Technologies

Email: [sburge@pcc-group.com](mailto:sburge@pcc-group.com) | Phone: (412) 655-0955 | [www.pcc-group.com](http://www.pcc-group.com)

Scott has been with PCC for 29 years working in the areas of Project Management, application engineering and sales. He has worked on the advancement of the combustion technologies to include air heaters, thermal oxidation and regenerative technologies.

Mr. Nick Disanti, Product Manager, Flameless Oxidation

Process Combustion Corporation – Oxidation Technologies

Email: [ndisanti@pcc-group.com](mailto:ndisanti@pcc-group.com) | Phone: (412) 655-0955 | [www.pcc-group.com](http://www.pcc-group.com)

Nick holds a B.S. Degree in Chemical Engineering from the University of Pittsburgh with a Master's in Business Administration from Penn State. He has significant experience in combustion application engineering and has been instrumental in the optimization and commercialization of PCC's Flameless Thermal Oxidizer technology.

Mr. Michael Foggia, Business Development/Marketing Manager

Process Combustion Corporation – Oxidation Technologies

Email: [mfoggia@pcc-group.com](mailto:mfoggia@pcc-group.com) | Phone: (503)799-2372 | [www.pcc-group.com](http://www.pcc-group.com)

Mike has 30 years of experience in the technical marketing and business development functions associated with air pollution control equipment. The past 10 years have been focused on thermal and biological technologies.

Mr. Robb Pulaski, President/CEO of ONYX Process Equipment

Email: [robb@onyxequipment.com](mailto:robb@onyxequipment.com) | Phone: (214)415-1979 | ONYX Process Equipment, LLC



With over 30 years of experience in the industrial, refining, chemical, power, paper, and environmental controls industries, Robb has significant knowledge specific to the design and implementation of process solutions needed to address complex emissions projects.

Dr. Yousheng Zeng Ph.D. P.E. serves as Chief Executive Officer of Providence Photonics and a Board Member of Providence Holding Inc.

Dr. Zeng received his Ph.D. degree in Environmental Engineering in 1990 from the University of Illinois at Urbana-Champaign. He is an author/co-author of 21 peer-reviewed journal articles and an inventor/co-inventor of 15 patents or pending patents. He was adjunct professor from 1996 to 2001 at Southern Methodist University teaching graduate level courses on air pollution control. Dr. Zeng served on three committees/panels under the U.S. EPA Science Advisory Board. In recent years, he has been working on Infrared imaging based technologies to detect, measure, and control hydrocarbon emissions.

Mr. Jimmy Orr, P.E. – Jacobs Engineering / AIChE BR Sect Committee Member

Jimmy has 40+ years of experience in the Gulf Coast Chemical Industry. He is currently a Group Leader for Safety Valve validations at Jacob Engineering (Baton Rouge). He is a successful coach & mentor for young engineers. His experience includes Plant Operations, Process Research, Project Management, and detailed Process Design. Jimmy is an expert in the design & management of small in-plant improvement projects. He is a graduate from Univ. of Houston (BSChE 1974) and Texas A&M (MSChE 1978). Jimmy is a licensed Professional Engineer in Louisiana. He is co-author of one US Patent.

**The morning session will cover fundamentals and latest technologies on thermal oxidation and NO<sub>x</sub> minimization and also will include flameless thermal oxidation and bio oxidation. The afternoon session will cover the latest on the new flare compliance regulations for refineries and following will be a presentation on latest flare stack monitoring system technologies. The seminar concludes with a presentation on Engineering Ethics (1 PDH).**

**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 Oak Lodge (2834 S.Sherwood Forest Blvd. Baton Rouge, LA 70816)**



“Oak Lodge” is a little bit hard to find

**Please Reference the next Map to Find “Oak Lodge” in the Local Area**

# Local Area Map



## Local Professional Societies

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

## 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)