



Baton Rouge Newsletter

Year 27, Number 2

www.aiche-br.org

October 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.

October Meeting

Date: Thursday, October 20, 2016

Place: Ralph & Kacoo's, Bluebonnet Boulevard at Interstate 10.

Speaker: Daniel Smith, Albemarle

Topic: *Pure Component Physical Property Prediction Methods*

Agenda:
5:30 PM – Registration and social (cash bar)
6:00 PM – Dinner
6:20 PM – Business
6:30 PM -- Speaker

Menu: Sensation salad. Choice of: Fried thin-cut catfish, Chicken Lafitte, The Atchafalaya, Black Angus Sirloin. New Orleans-style bread pudding. Coffee, tea, soft drinks.

Cost: \$30 per person (Members \$25, Students \$15)

RESERVATIONS

Please make your reservation with chapter secretary, Donna Bryant, **by 5:00 PM on Tuesday, October 18th** at donna.bryant@syngenta.com

Reservations 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

Oct 28 10 AM to 3PM. SuperScience Saturday, Pete Maravich Assembly Center, LSU. Volunteers needed.

Nov 11 Fall Seminar, Oak Lodge on Sherwood Forest Boulevard. Mixing, Economic Development, Safety Certification, Ethics Panel, more.

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.

Recap of the September Tour of Orion Instruments



For our September meeting, we visited the Orion Instruments facility. While we ate a dinner which Orion provided, we heard a technical presentation by Henry Moss about the different Orion Instruments and then visited their shop to see how their instruments were created, tested, and sent out to customers. Orion Instruments is an instrumentation company that got their start from magnetic level devices, originally just making sight glasses, but now making a wide variety of different magnetic level instruments and instrumentation for all kinds of chemicals: L&G, acids, high temperature and pressure water in boilers, and many more.

While I can't speak for all of the 20+ people that were at the meeting, one of the things that I found the most interesting from the visit was the Orion Instruments float design for the part of the level device. The floats can be made from a wide variety of materials and a variety of sizes depending on the application. The tallest magnetic level device that they have made was put on the side of a grain silo! Another fun fact about Orion Instruments is that for all of their level devices that need to go into hot service, especially for boilers, they hand create the instrument's own insulation. They have sewing machines inside the shop that actually do this task.

Thank you to everyone that ended up coming out for the event and for Orion Instruments for opening up their shop and business for us to visit. It was a very informative and worthwhile trip!

Donna Bryant, Secretary

Call for Questions on Ethics

ETHICS PRESENTATION – AIChE Seminar November 11. The 1-PDH Ethics Session will be conducted by the Louisiana Professional Engineers & Land Surveyors (LAPELS) personnel. The format will be a four LAPELS person panel fielding questions & answers. LAPELS is requesting for AIChE to forward questions and/or topics ahead of time. They want to tailor the presentation (somewhat) to the audience and build in topics or questions the audience may have for us, but have never asked. Interested parties can forward questions or concerns to jimmy.orr@jacobs.com.

Daniel Smith, October Meeting Speaker

Dan Smith is a Sr. R&D Advisor with Albemarle Corporation, and leads Albemarle's Chemical Reactivity and Engineering Fundamentals group. He has extensive experience in process development, process design, process simulation and process evaluation, which has included work on Albemarle commercial products such as alpha olefins, linear alcohols, flame retardants, and organometallic catalysts. For 20 years he has consulted within Albemarle on pressure relief and related process safety issues, and has been active with the AIChE Design Institute for Emergency Relief Systems (DIERS) Users Group since 2004. Since joining Albemarle's Core Technology group in 2003, his focus has been to develop a comprehensive reactive hazard evaluation program for Albemarle, and he has been instrumental in establishing several other process safety practices and procedures. Dan graduated from the University of Arkansas with a B.S. degree in Chemical Engineering in 1985 and is a Senior AIChE member.

October Meeting Topic

Imagine a chemical engineering calculation that does not require physical properties - it's possible, but it takes some effort. Accurate physical property values are vital for chemical engineering calculations. This presentation provides a survey of methods available to estimate pure component physical properties necessary for a chemical engineer using the powerful principal of corresponding states.

SuperScience Saturday—Call for Volunteers

Super Science Saturday will take place on **Saturday, October 29, 2016 at the LSU PMAC upper concourse level from 10am till 3pm**. We will be doing a classic experiment of making foam from baking soda and vinegar! **Volunteers are needed** to help run experiments and assist with set up and clean up, if anyone would like to be a part of this educational outreach or for any questions please contact education committee chair Erick Flores (eflore5@lsu.edu). You can volunteer for a couple of hours or stay the whole time if you would like, there will be refreshments provided along with pizza for lunch. Approximately 1,200 kids are expected so it's sure to be a full day of fun with chemistry, hope to see you there!

Joseph A. Polack (1920-2016)

Joe Polack, former Director of the Esso (ExxonMobil) Research Laboratories in Baton Rouge, Head of the LSU Chemical Engineering Department and Superintendent of the Audubon Sugar Institute passed on August 17. He served as Chair of the AIChE Baton Rouge Section and received the Charles E. Coates Award in 1982. While at LSU, he was instrumental in getting statewide funding for the campus suicide hot line to go community wide which today is known as the Baton Rouge Crisis Intervention Center, or The Phone, a project very close to his heart. We extend our deeply felt condolences to his family.

If it's nothing more than a smile—give that away and keep on giving it.

Beth Brown

From the Chapter Chair's Pen

Our Baton Rouge section is off to a great start for our fall activities. The Orion Instrument team gave a fantastic plant tour for our members in September. It was good to see quality instruments manufactured here in Baton Rouge. October looks to be another great month. We will have Dan Smith from Albemarle present at our October meeting and also present the high school grants. Clark Snyder has been working on the grant awards and planning the venue at Ralph and Kacoo's so this should be a big success. Erick Flores with the education committee is working on the Super Science Saturday activities at LSU. By the way if you are interested in volunteering to help out on Super Science Saturday please contact Erick. I did it last year and it was a lot of fun interacting with the students. We have more in store for November including our Fall Seminar that Jimmy Orr has been working on. The venue has been changed since the Holiday Inn has been undergoing some renovations and won't be available for a while. More on that next month. My last thought is about members impacted by the flooding. Please if you were impacted let Donna Bryant our secretary know. Steven Reilly has worked some magic with National and your 2017 dues will be waived. This year your meals at our meetings will be on us as well. So if you had flood damage in your home let Donna know. A big thanks to Armando Corripio for producing this excellent newsletter and making sure we all stay on time.

WDB



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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: Erick Flores, EFlore5@LSU.edu
High School Grants: W. Clark Snyder, WClarkSnyder@hotmail.com
Membership: Glenn Bryson, BGBryson@BellSouth.net
Newsletter: Armando Corripio, Corripio@LSU.edu
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: Staci Duhon, StaciDuhon@gmail.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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**and congratulate Baton Rouge Chapter President,
William D. Buck, P.E.**

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AIChE Baton Rouge Fall Seminar

Fundamentals of Agitation, Gulf Coast Petrochemical Economy,
Certified Process Safety Professional, Mascoat Insulation Coating,
Design Pressure Basics, Engineering Ethics Overview

Friday, November 11, 2016

8:00AM – 4:00PM

Location: **Oak Lodge** Reception & Conference Center (new)

2834 S. Sherwood Forest Blvd. Suite E-1 Baton Rouge, Louisiana 70816, (225) 291-6257

Earn 7 PDH's! Enrollment is Limited! Sign-Up Early!

REGISTRATION FORM

NEW! Register online at 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 06-Nov-16

(Please check appropriate box) ☐ \$95/person for non-Tech/Prof Society Members prior to 06-Nov-16

☐ \$110/person for all after 06-Nov-16

MAIL COMPLETED REGISTRATION FORM TO:

(Please include check if that is your payment option)

Check or cash only, no credit cards on event day

Walk-ins welcome space permitting.

Oscar.Alfaro@Jacobs.com

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-16 and 10-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 11, 2016 Seminar

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

8:00 AM – 9:50 AM: MORNING SESSION

Fundamentals of Agitation from a Mixing Solutions Provider

Evan Walters (**Philadelphia Mixing Solutions**)

The presentation will cover the basics of fluid mixing. These fundamentals drive the development of optimized in-tank mixing solutions. An overview of the presentation includes the following topics:

Principal Mixing Duties

- Blending / Heat Transfer
 - Newtonian
 - Non-Newtonian
- Solids Suspension
 - Solids / Liquid
 - Solids Dissolution
 - Solids Addition
- Dispersion
 - Liquid/Liquid
 - Gas/Liquid

Mixing Duty and Impeller Definition

Scale Up

Mechanical Design Basics

Question and Answers

About the presenter:

Evan Walters is the Business Development Manager for Philadelphia Mixing Solutions Ltd., with focus on Top Entry Chemical/Petrochemical applications. Evan has a BS in Mechanical Engineering from Wilkes University. He has 10+ years of experience in the field of fluid mixing. This experience includes Application Engineering, Project Management, Warranty Committee member, on-site commissioning/start-up assistance, and inside sales team management of high specification type projects. Evan recently moved from the head office in Palmyra, Pennsylvania to Houston, Texas to better support the Gulf coast region.

10:00 AM – 10:50 AM: MORNING SESSION

Gulf Coast Petrochemical Economy

Greg Upton, PhD (**LSU Center for Energy Studies**)

The petrochemical manufacturing industry has shaped the history of the Gulf Coast's economy. With the advent of shale oil and gas as well as the removing of the crude oil export ban, a number of potential opportunities and risks for this industry have emerged. This lecture will focus on the petrochemical manufacturing sector's importance to the Gulf Coast economy and provide insight into the economic viability of future industrial development.

About the presenter:

Gregory T Upton, PhD is Assistant Professor at the Center for Energy Studies, Louisiana State University. His research interests are related to the analysis of economic and public policy issues on energy and the environment. Dr. Upton is also a Research Associate at Acadian Consulting Group (ACG), for which he has four years experience in supporting expert analysis of economic, statistical, and public policy issues in energy and regulatory industries. During his tenure at ACG, Dr. Upton has worked on more than 20 regulatory cases in more than 10 states. He has worked on a wide range of issues including the impact of utility rate increases on economic output, the distributional effects of different types of utility rate designs, economic impact of new infrastructure programs, benchmarking analysis, economic valuation, and estimating the tax impact of large environmental disaster. Dr. Upton holds a Ph.D. in Economics from LSU where he also received both an M.A. in economics and a B.S in economics with a concentration in empirical analysis. He is a member of professional organizations such as the International Association of Energy Economics (IAEE), American Economic Association (AEA), and the Southern Economic Association (SEA).

11:00 AM – 11:50 AM: MORNING SESSION

CCPS Certification Process for Certified Process Safety Professional

Florine Vincik (**BASF Geismar**)

Over the past 30 years, CCPS has focused its global efforts in four key areas:

- Promoting process safety among industry leaders as a key business value,
- Serving as the leading and authoritative resource for process safety,
- Advancing and developing the Body of Knowledge (BOK) of process safety, and
- Educating professionals and supporting process safety education in universities.

CCPS now plans to leverage its efforts in the last two areas by establishing a professional credential – the Certified Process Safety Professional (CPSP). The CCPS certification process will evaluate the applicants' knowledge across the process safety Book of Knowledge (BOK), which over the past 30 years has been defined largely by CCPS, as well as DIERS, another AIChE Technical Entity. The BOK has CCPS's Guidelines for Risk Based Process Safety at its core and is supported by dozens of other CCPS books and supplemented with key standards developed by a number of organizations. The process of evaluation will be based on both career experience and assessment via a rigorous test. Successful certificants will then maintain their knowledge and expertise through a range of continuing professional development activities, including courses, conferences, committee participation, teaching, and others.

When hiring or planning the career development of a certificant, employers and those hiring consultants will have evidence that the CPSP they are evaluating has developed a basic level of experience in process safety and the certificant is committed to advancing his or her abilities.

This presentation will describe the process involved to become a Certified Process Safety Professional

About the presenter:

Florine Vincik has 30 years of chemical manufacturing experience in process, project, production, management, and now process safety. Bachelor of Science in Chemical Engineering (LSU), Master of Business Administration (SELU), Certification as both a Safety Professional (ASSE) and Process Safety Professional (CCPS). Provides the Engineering/Business/Safety '*trilogy*' ideal for consulting with stakeholders about EHS and business risks as well as evaluating solutions. Co-author for AIChE's Center for Chemical Process Safety (CCPS) process safety guidance handbooks: *Risk Based Decision Making Tools*, *Guidelines for Siting a Facility*, *Combustible Dusts*, and peer review of *Enabling Events and Conditional Modifiers for LOPA* and *The Student Handbook for Process Safety*. Member of the Greater Baton Rouge AIChE and ASSE Chapters...Geaux 'Safety' Tigers!

12:00 PM – 1:00 PM: LUNCH

1:00 PM – 1:50 PM: AFTERNOON SESSION

Mascoat Insulation Coating

Robert Browning (**Mascoat- Houston**)

- History of Insulation Coatings
- General Overview of Mascoat
- Type of Coatings & Benefits of Each
- Case Histories
- Best Practices
- Questions / Answers

About the presenter:

Robert Browning is the Territory Manager for Eastern North America & the Caribbean for Mascoat Thermal Insulating Coatings. He is NACE CIP Level 2 Inspector, #51473. Also, a Certified General Contractor in FL. Robert has 15+ years in the coating industry. He has been successful from the supplier & contractor side of the industry. Prior to Mascoat, Robert operated R. Browning Enterprises, Inc. and was the V.P. of ICRI the SW Florida Chapter. Most recently he spoke at the NISTM Convention and the 24th annual Multi-Topic Engineering Seminar.

2:00 PM – 2:50 PM: AFTERNOON SESSION

Design Pressure Basics

Jimmy Orr (**Jacobs Engineering**)

- How to identify Maximum Operating Pressure
- Acceptable Pressure Margins
- Piping Design
- Questions / Answers

About the presenter:

Jimmy Orr has worked 40+ years in the Gulf Coast Chemical Industry. His experience includes Plant Operations, Project Management, and Detailed Process Design. Jimmy is currently a Group Leader for Safety Valve validations at Jacob Engineering (Baton Rouge). He is a graduate from Univ. of Houston (BSChE 1974) and Texas A&M (MSChE 1978).

3:00 PM – 4:00 PM: AFTERNOON SESSION

Engineering Ethics Overview

Richard Savoie, P.E. (LAPELS Deputy Executive Director)

- LAPELS Board and Staff
- Enforcement & Compliance
- Ethical Issues
- Quiz
- Supervising Professionals
- Common Questions

[About the presenter:](#)

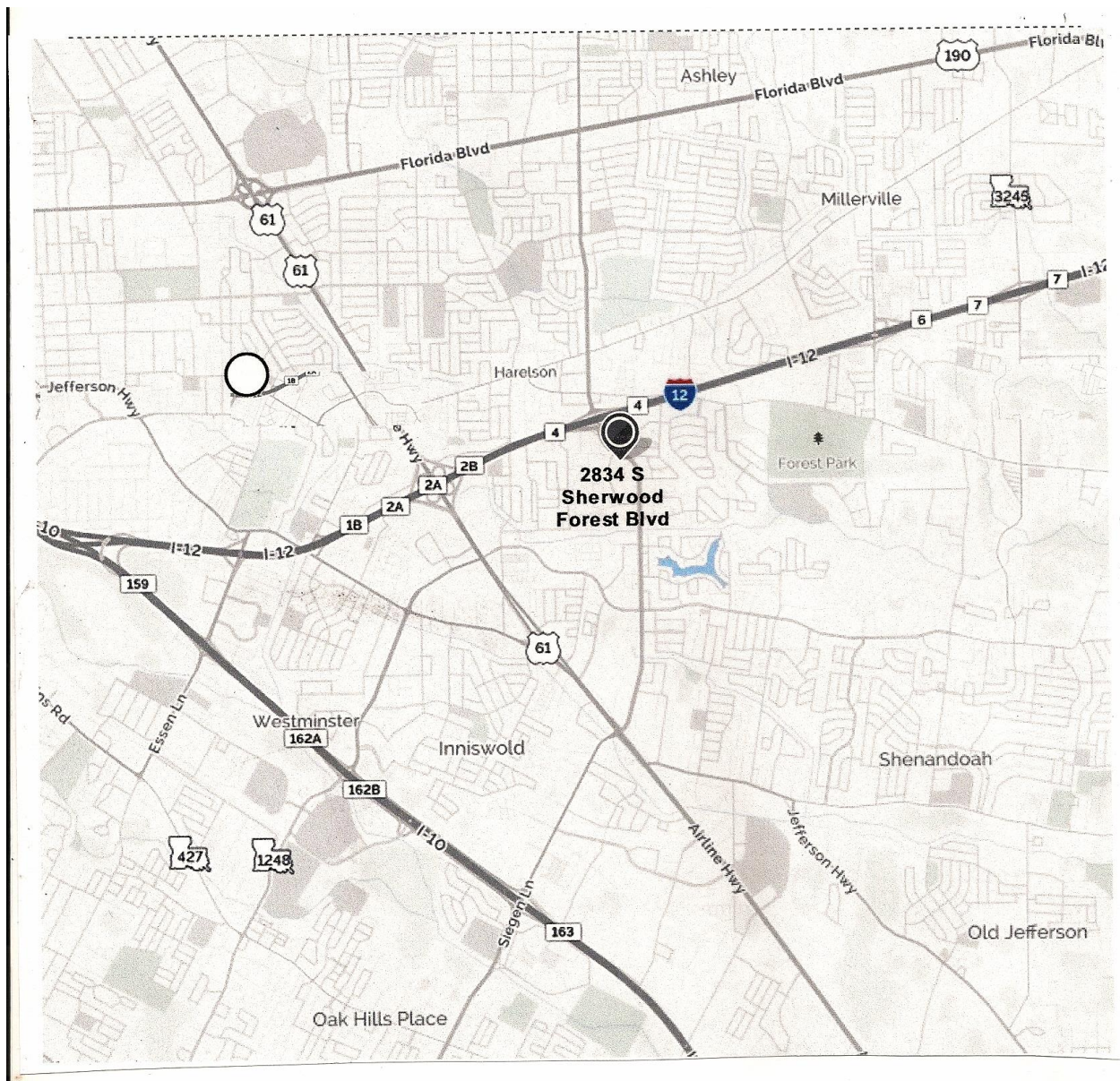
Richard Savoie is the Deputy Executive Director for the Louisiana Professional Engineers and Land Surveyor's Board (LAPELS). He has served in the position since April 2015. He also served one term as a Board Member from 2007 to 2013.

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)

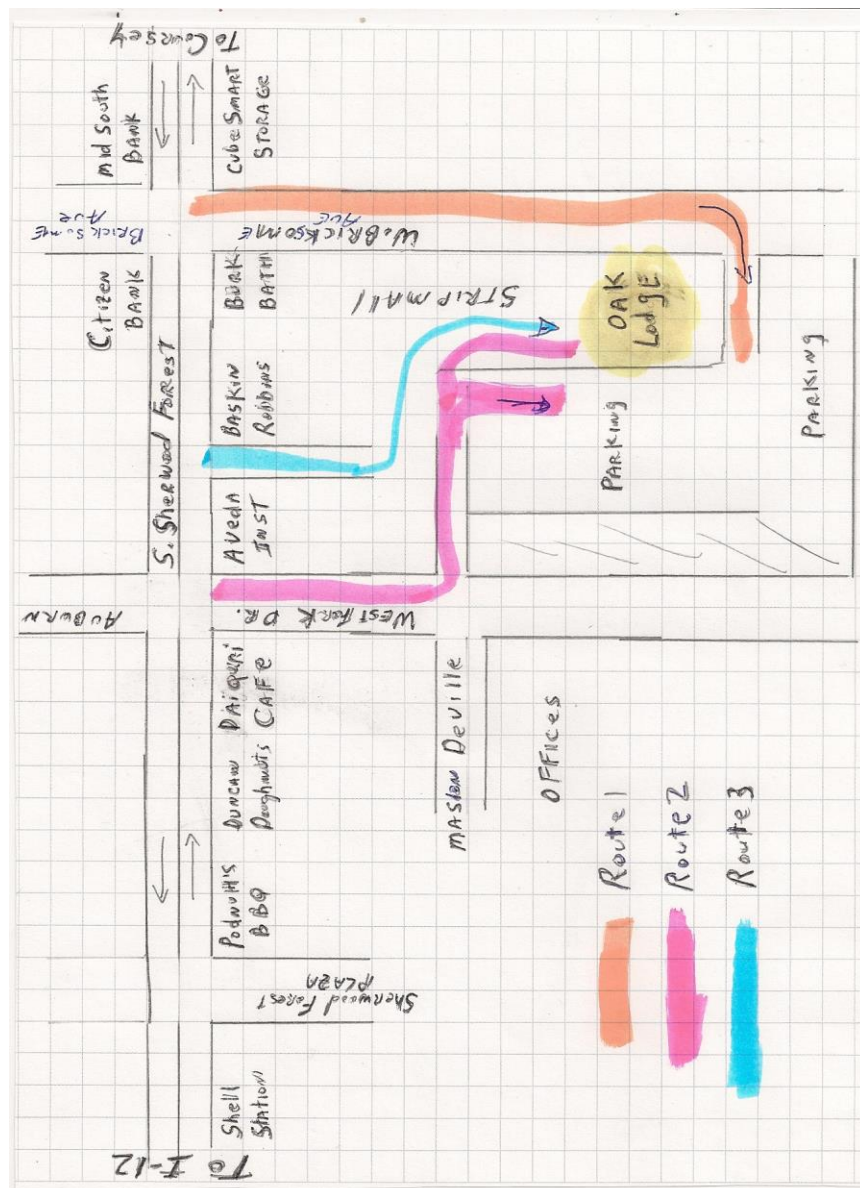


“Oak Lodge” is a little bit hard to find

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

IV

Local Area Map



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)