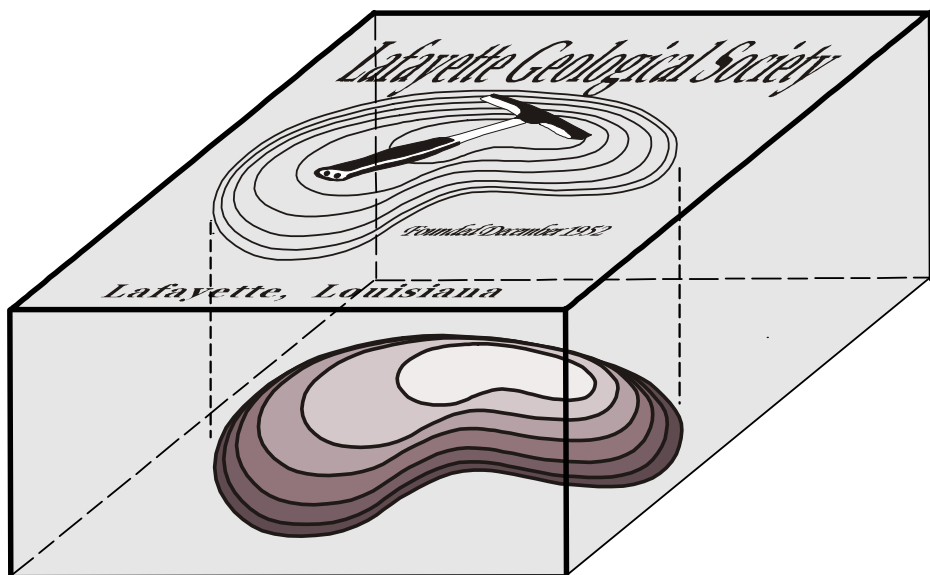


Lafayette Geological Society **BULLETIN**

Volume 60, No. 8

April 2016



LGS Luncheon Meeting
Wednesday, April 20, 2016
11:30 am – 1:00 pm
Lafayette Petroleum Club
Cost: \$20

Luncheon Presentation

**“Intro to Reservoir Fluid PVT Analysis
for Earth Scientists”**

*Toddy Guidry,
Core Laboratories*

*Visit the LGS website at:
lafayettegeologicalsociety.org*

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2015-2016

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**LGS Luncheon Meeting
Wednesday, April 20, 2016
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**“Intro to Reservoir Fluid PVT Analysis
for Earth Scientists”**

***Toddy Guidry,
Core Laboratories***

President's Column

Okay so the world is about to fall apart, but that's no reason to defund education Governor.

Your current Board of Directors has been diligently working to find ways for the Society to aid the University and our community under the guidelines of our Constitutional objectives. These efforts have been geared primarily toward fundraising events. Several (mentioned below) are coming up in the next few weeks. So what are our objectives you ask?

LGS Constitution Article II – Objectives

The objectives and purposes of this Society shall be:

1. To **advance Geology** as a Science and profession.
2. To **encourage cooperation and fellowship** between all members and others interested in geological problems.
3. To **foster higher standards of education and ethics** among members and students.
4. To **encourage public appreciation** of the utility and application of geologic science.

And the Society has a special committee formed to help implement these objectives particularly for future geoscientists.

Section D: Education Outreach Committee

This committee shall consist of two or more members who will supervise **continuing education programs** including field trips, education outreach, any **earth science community youth activity programs**, and **college student programs**.

“Italics” below are reprints from the January 2016 LGS Bulletin.

“Everyone should already have received an email announcement about the Student/Professional Meet and Greet at Deano's Pizza.... We have activities where our professional members can meet the students twice a year (the Bar-B-Q being the other), and I consider the Meet and Greet to be the most important, especially so with the economic downturn in the industry this year.”

“While the current situation is difficult for us, it is potentially devastating for the students. Many of them are questioning their wisdom in choosing to pursue an education for employment in an industry seemingly devoid of opportunities.”

“Most of us on the other hand have seen and survived similar downturns in the past. This is an experience of particular value to the students, and will provide the membership with an opportunity for mentoring and accomplishing an objective of the Society.”

(continued on [page 28](#))

LGS
CORNERSTONE MEMBERSHIP

LGS wishes to thank its **Cornerstone Members** for their annual financial support of speaker programs, continuing education, UL-Lafayette scholarships, social functions, and community services.

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APRIL LUNCHEON PRESENTATION

Intro to Reservoir Fluid PVT Analysis for Earth Scientists

**Toddy Guidry,
Core Laboratories**



Abstract

The need for good, representative reservoir fluid samples is critical to the effective design and operation of any development project. The decision to build and deploy production facilities exposes producers up to several billion dollars of investment risk, and a solid understanding of formation fluids right after discovery plays an essential part in mitigating that risk. Whether obtaining Gulf of Mexico Wireline Formation Test tool samples from 20,000 feet or surface separator samples from Terrebonne Parish, Louisiana, fluid analysis provides the ammunition needed for more efficient use of assets.

Many times the only exposure that geologists get to fluids is hearing the reservoir engineer “talk” about getting “PVT samples.” This 45-minute presentation will cover the basics of reservoir fluid behavior, sampling and analysis. The “big picture” may include many determining drive mechanisms, formation rock properties, and geophysical properties, as well as formation fluid properties. Fluids analysis provides data critical to predicting well and reservoir performance, surface and subsea facilities design, and fluid quality assessment for determining market price.

Biography

Toddy is based in Lafayette and was the Technical Manager for the Reservoir Fluid Services Division of Core Labs for over 20 years. He now handles Technical Sales for Core Laboratories east of Texas, covering the southeast U.S. region. Toddy has an M.S. in Mathematics from the University of Southwestern Louisiana, and has been involved in reservoir fluid analysis and phase behavior studies since joining Weatherly Laboratories in 1982. His current duties with Core Labs involve client technical support/sales and corporate business development for Core Lab’s many disciplines, focusing on core and fluids analysis.

He can be reached in Lafayette at toddy.guidry@corelab.com or 337-837-8616.

Thanks to **Shoreline Energy** for
sponsoring student attendees at the
April luncheon meeting.

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GEOLOGY AND WINE CONVERGE IN FRANCE

**An LGS/ULL Fundraising Event at
E's Kitchen, 6 pm, Thurs., Apr. 28**



Sample Wines of France

Dr. Raphaël Gottardi will discuss the Geology of France's Wine Country.

Light hors d'oeuvres to be paired with the wine samplings.

Spouses/guests are welcome to attend.

\$75 per person (make checks out to LGS).

Time and Place: E's Kitchen, 1921 Kaliste Saloom Rd., starting at 6:00 pm on Thursday, April 28.

To **reserve your spot** (seating is limited), mail your registration with payment to:

**Samantha Leone
400 E. Kaliste Saloom Rd., Ste. 1100
Lafayette, LA 70508**

2016 LGS Field Trip— Wax Lake Delta, Louisiana

**Saturday, May 7, 2016
Leader: Harry H. Roberts, LSU
Cost: \$200/Participants
(~30 max persons)**



The Wax Lake and Atchafalaya deltas represent the embryonic stages of a new Mississippi River Delta Complex, adding to the previous five delta complexes that have formed

Louisiana's coastal plain. Historical accounts document that the Atchafalaya River has been a distributary of the Mississippi since the 1500s. It was evident by the mid-1900s that the Atchafalaya River was steadily capturing more and more discharge from the Mississippi. In 1963, a control structure was completed by the US Army Corps of Engineers at Old River, the confluence of the two rivers. This structure limits flow down the Atchafalaya River to about 30% of the Mississippi discharge. Following the enormous flood of 1973 the Old River Control Structure was almost lost. This same flood caused both the Atchafalaya and Wax Lake deltas to evolve from being subaqueous features to subaerial forms.

This field trip will offer the opportunity to learn about the Wax Lake Delta (unmodified by human activities), its general evolution, sedimentary architecture, and how it fits into the larger framework of the Mississippi River Delta. Orientation lectures at the Brownell Memorial Park in Morgan City, LA and at the Paterson, LA boat launch will discuss the overall setting for

Atchafalaya-Wax Lake deltas, including the sedimentary development of the Atchafalaya Basin. We will then travel by boat to different deltaic environments, and concentrate on the processes of formation and sedimentary architecture of the Wax Lake Delta. We will collect a vibrocore from a representative lobe of the delta and use it to discuss sedimentary facies, stratigraphy, and potential reservoir characteristics. In recent years, the Wax Lake Delta has been used as a model for large-scale river diversions, our best hope for offsetting Louisiana's coastal land loss. The Wax Lake Delta is the largest man-made river diversion in the Mississippi River Delta System. The trip should be informative for geoscientists involved in solving coastal problems as well as other geoscience applications for deltaic geology.

Leader: Harry H. Roberts
Coastal Studies Institute
School of the Coast and Environment
Louisiana State University
Baton Rouge, LA 70803
E-mail: hrober3@lsu.edu
Office: 225-578-2964

Departure: Participants will leave Lafayette by Hotard Bus and will meet the fieldtrip leader at Brownell Tower and Park on Lake Palourde, Morgan City, LA at 9:00 am for a discussion of delta plain development and the depositional history leading up to development of the Atchafalaya and Wax Lake deltas.

Time/Day/Date: Saturday, May 7, 2016. Leave Lafayette by 8:15 am and return to Lafayette by 6:00 pm.

Cost: \$200 per person with max of 30 persons. Cost includes transportation, lunch, boats, fuel, boat captains, and guidebook.

Special Instructions: Fieldwork in coastal Louisiana is always subject to weather changes. Bring a rain coat, bug spray, and extra water. A hat will help if it is sunny along with sun screen. Also, your feet will get wet. We will be walking on wet ground and wading.

Payment: Please make checks payable to the Lafayette Geological Society, P.O. Box 51896, Lafayette, LA 70505.

Calendar of Upcoming Events

Apr. 20, 2016 — LGS: Lafayette Geological Society luncheon meeting, 11:30 am at the Petroleum Club in Lafayette — Toddy Guidry, Core Laboratories, will present “Intro to Reservoir Fluid PVT Analysis for Earth Scientists.”

Apr. 28, 2016 — LGS: Lafayette Geological Society Wine and Dine, 6:00 pm, at E’s Kitchen, 1921 Kaliste Saloom Rd. — In addition to light hors d’oeuvres paired with wine samples, Raphaël Gottardi, UL-Lafayette School of Geosciences, will discuss the “Geology of France’s Wine Country.” For more information, please see [page 7](#).

Apr. 30, 2016 — LGS: Lafayette Geological Society / ULL Alumni Crawfish Boil — For more information, please see [page 17](#).

May, 2016 — SGS: Southeastern Geophysical Society — No scheduled May events as of press time. Please visit <http://sgs-neworleans.org/index.html> for potential updates.

May 2, 2016 — NOGS: New Orleans Geological Society, 11:30 at the Holiday Inn, 330 Loyola Ave., New Orleans — Alexis Lang & Joshua Hartley, John Curtis Christian School, River Ridge, Louisiana, will present “Can a Geiger Counter Provide an Inexpensive Method for Determining the Mining Potential of Rare Earth Elements.” For abstract and biography, please visit <http://www.nogs.org/Content/pdf/events/2016/2016-5-2-Lang-Hartley-Abst-Bio.pdf>.

May 7, 2016 — LGS: Lafayette Geological Society Spring Field Trip at Wax Lake Delta — Field trip hosted by Harry H. Roberts, LSU. For more information, please visit [page 8](#).

May 9, 2016 — API: Acadiana Chapter of the American Petroleum Institute luncheon meeting, 11:30 am at the Petroleum Club in Lafayette — Kenneth B. Medlock III, Baker Institute, Rice University, Houston, Texas, will present “The Uncertain Future of Energy.” Please visit http://www.apiacadiana.com/API_Acadiana_Chapter.html for more information.

May 10, 2016 — SPE: Society of Petroleum Engineers Evangeline Section luncheon meeting, 12:00–1:00 pm at the Petroleum

Club in Lafayette — Michael Choi, ConocoPhillips (retired), will present “LNG Basics for the Petroleum Engineer .” Please visit <http://www.spe-laf.org/site.php?pageID=15&eID=1344> for more information.

May 10, 2016 — SWLGS: Southwest Louisiana Geophysical Society luncheon meeting, 11:30 am at the Petroleum Club in Lafayette — Speaker and topic not available as of press time. Please visit <http://www.swlgs.org> for updated information as the meeting date approaches.

May 11, 2016 — SIPES: Society of Independent Professional Earth Scientists Clay Shoot and BBQ — No additional information available as of press time.

May 12, 2016 — SPWLA: Society of Petrophysicists and Well Log Analysts luncheon meeting, 11:30 am at the Petroleum Club in Lafayette — Speaker and topic not available as of press time. Please visit http://www.spwla.org/SPWLA/Chapters_SIGs/Chapters/North_America/Lafayette/SPWLA/Chapters_SIGs/Chapters/North_America/Lafayette/Lafayette.aspx as the meeting date approaches for more information.

May 13, 2016 — BRGS: Baton Rouge Geological Society luncheon meeting, 11:30 am at Mike Anderson Seafood Restaurant, 1031 W. Lee Drive, Baton, Rouge, Louisiana — Speaker and topic not available as of press time. Please visit <http://www.brgs-la.org/> for more information as the meeting date approaches.

May 16, 2016 — SPE: Society of Petroleum Engineers Evangeline Section Study Group Meeting, 11:30 am–1:00 pm at the Petroleum Club in Lafayette — John Rogers Smith, LSU (retired), will lead the discussion on “Professional Ethics in Petroleum Engineering.” Please visit <http://www.spe-laf.org/site.php?pageID=15&eID=1346> for more information.

May 18, 2016 — LGS: Lafayette Geological Society luncheon meeting, 11:30 am at the Petroleum Club in Lafayette — Speaker and topic not available as of press time. Please visit <http://lafayettegeologicalsociety.org/wp/> for more information as the meeting date approaches.

2016–2017 LGS BOARD NOMINEES

Over the next several pages, you will find summaries of the candidates for the 2016–2017 positions of President-Elect, Vice President, Treasurer, Secretary, and Advisor. *Additional nominations from the floor will be allowed at the April luncheon meeting.* Recall that the President-Elect becomes the President the following year, and the Director is a two-year appointment with two Directors serving in a given year.

VOTING BALLOTS WILL BE EMAILED
TO ALL ACTIVE, LIFE, SENIOR, AND
HONORARY MEMBERS IN LATE APRIL.

Continuing their valued LGS service will be:



2016–2017 Past President
Bill Finley

2016–2017 President
Samantha Leone

2015–2017 Advisor
Now Vacant (see nominee list
for both Advisor positions)

Jennifer Hargrave, President-Elect Nominee



Dr. Hargrave joined the faculty of the School of Geosciences at UL this January as an Instructor for geology and a museum research scientist. Dr. Hargrave is a UL Lafayette alumnus, graduating in 2000 with a B.S. in Geology. She received her Masters in Vertebrate Paleontology from the South Dakota School of Mines and Technology in 2004. She then received her Ph.D. from the University of Oklahoma in 2009 in geology with a focus in vertebrate paleontology. After graduation, she spent two years as a post-doctoral researcher at Syracuse University, conducting a study on lacustrine carbonates on Lake Turkana, Kenya. Upon completing her post-doc, she then made her way to Southern Utah University, spending five years as an assistant professor of geology and as the university resident paleontologist.

In addition to teaching at UL, she will be splitting her time at the Lafayette Science Museum. Dr. Hargrave's current research includes the numerous Pleistocene fossil birds from Fossil Lake, Oregon. Additional research interests include paleontology, sedimentary processes, depositional systems, and geoscience education and outreach. .

John Hollier, Vice President Nominee



Born and raised in Lafayette, John graduated from Our Lady of Fatima High School and attended USL to receive a BS Degree in Geology (1979). After interning in Lafayette for two years before graduation John accepted a position with Tennessee Gas Transmission (Tenneco) in Houston (8/79). Working as a Geological Engineer at TGT provided a broad exposure to Gulf Coast geology in both onshore and offshore fields and in the developing Baltimore Canyon Area of the East Coast.

John was recruited into an exploration geology position for the offshore GOM by Union Texas Petroleum and in 1985 began working subsalt and deepwater exploration, including the "ground up" development & execution of a subsalt GOM exploration program for a major international oil company. In 1995, John was recruited back to Lafayette and, with his wife of 34 years, has enjoyed raising "and releasing" two lovely daughters in Lafayette's family friendly environment.

John is a Lifetime member of the Lafayette Geological Society and a past Director, AAPG member since 1979, was a Houston Geol. Soc. Member (15 yrs.), and has participated 3 times as a GCAGS Judge.

Terri Bannister, Treasurer Nominee



Terri Bannister is currently a MS Geology student at the University of Louisiana at Lafayette and the Geo Assistant for the Geosciences Division at Oceanengineering Survey Services (formerly C&C Technologies). Terri served as the LGS Treasurer for the 2015–2016 term. She is originally from a small town in Ontario, Canada. She earned her undergraduate degree from the University of Waterloo.

She has seven years work experience in Remote Sensing, GIS, and wetland research while working at the USGS National Wetland Research Center where she co-authored several journal articles.

Elisabeth Boudreaux, Secretary Nominee



Elisabeth is originally from Thibodaux, LA, grew up in East Texas, and has been back in the Lafayette area for some time. In 2006, she received her B.S. in Geology from the University of Louisiana at Lafayette. She went on to earn her M.S. in Geology (also from the University of Louisiana at Lafayette) in 2013, focusing on petrologic/petrographic studies of volcanic rocks from the Big Bend region.

During some of that time (2006–2010), Elisabeth was employed with the Lafayette Parish Assessor's Office and worked with research/ArcGIS in the mapping department. In 2012, she began teaching classes for the Geology Department at UL-Lafayette, where she is still currently employed. Elisabeth and her husband Gary reside in Lafayette with their 3 young children.

Kaare Egedahl, Advisor Nominee

Kaare Egedahl earned both his undergraduate and Master's degrees in Geology from the University of Louisiana at Lafayette. Kaare interned with PXP while pursuing his Master's degree and upon completion accepted a job with Marathon Oil in Houston in

2013. By 2014, Kaare had returned to Lafayette to join the deep-water Gulf of Mexico Development team at Freeport-McMoRan Oil & Gas as a Geologist.

Lou Groth, Advisor Nominee



Lou was reared in Wharton, Texas and graduated from Lafayette High School. He received his B.S. degree in Geology from the University of Southwestern Louisiana in 1975. He started his career oil and gas career as a roughneck for W. C. Fatjo Drilling Company, working summers while attending USL. At the time he graduated from USL, he was employed with Pennzoil Producing Company as a draftsman and was subsequently promoted to Geologist, responsible for South Louisiana development work. After 5 years in Lafayette he was transferred to the Houston based exploration group. After 3 years in Houston, he then returned to Lafayette as a Consulting Geologist, logging time with Energy Investments Inc. and Texas Crude Inc. From there he moved on to become Exploration Manager for Coalinga Corporation, working projects situated in South Louisiana, West Texas, and Oklahoma. After 11 years, Coalinga sold their production and he joined the ranks of Stone Energy as a development Geologist—gleefully retiring after 13 years—the last 6 years as Business Development Manager (unconventional resources). He is now the president of J&H Resources, LLC, a geological consulting firm. Lou is a Certified Petroleum Geologist and been a member of AAPG since 1975. He is currently a long standing member of the LGS and past member of the West Texas Geological Society, South Texas Geological Society, Houston Geological Society, and the Calgary Society of Petroleum Geologists. He also is a member of the ULL Geology Department Advisory Board.

Scenes from the March LGS luncheon meeting



LGS / UL Alumni Crawfish Boil

Dear SLI/USL/ULL Geology Department Alumni,

We hope this letter finds you well and prosperous in these trying economic times. But it's springtime in the bayous and the Geology Department in conjunction with the Lafayette Geological Society is hosting the annual **Alumni Crawfish Boil** to be held at the **Alumni House** in Lafayette on **April 30, 2016**.



Most of you should be aware of the current financial condition existing in Louisiana, and the reduced budgets impacting the University. We will be charging a small extra fee to guarantee a profit dedicated to supporting the Geology Department, students, and faculty.

If you are not aware, Dr. Brian Lock is retiring at the end of this semester. The Department is establishing a new endowed fund (the Student Technology and Research Fund) honoring Brian to maintain and perpetuate the uniqueness of the Petroleum Geology curriculum at ULL. The LGS is matching up to \$10,000 of your donations to kick start this new fund. Please consider a donation.

We hope that you will have time and will make plans to attend this year; come renew old friendships, make new ones, and meet the next generation of professionals. Besides, the beer will be cold and the crawfish will be hot; what's not to like.

Tickets for the crawfish boil are available online here via online purchase. A link is located below.

Donations to the fund is available online at

<https://ullafayette.ejoinme.org/geology>.

Or if you prefer, please see the reservation and donation sheet at: <http://lafayettegeologicalsociety.org/wp/?p=1991>, print and fill out a copy, write a check, and mail both to:

LGS/ULL Crawfish Boil

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Joe R. Klutts

2015-16 Dues are Due!!

Please make payments to LGS, P.O. Box 51896, Lafayette, LA 70505 to continue receiving the Bulletin or avoiding non-member lunch costs. Please see [p. 30](#) for membership dues amounts and LGS mailing address.



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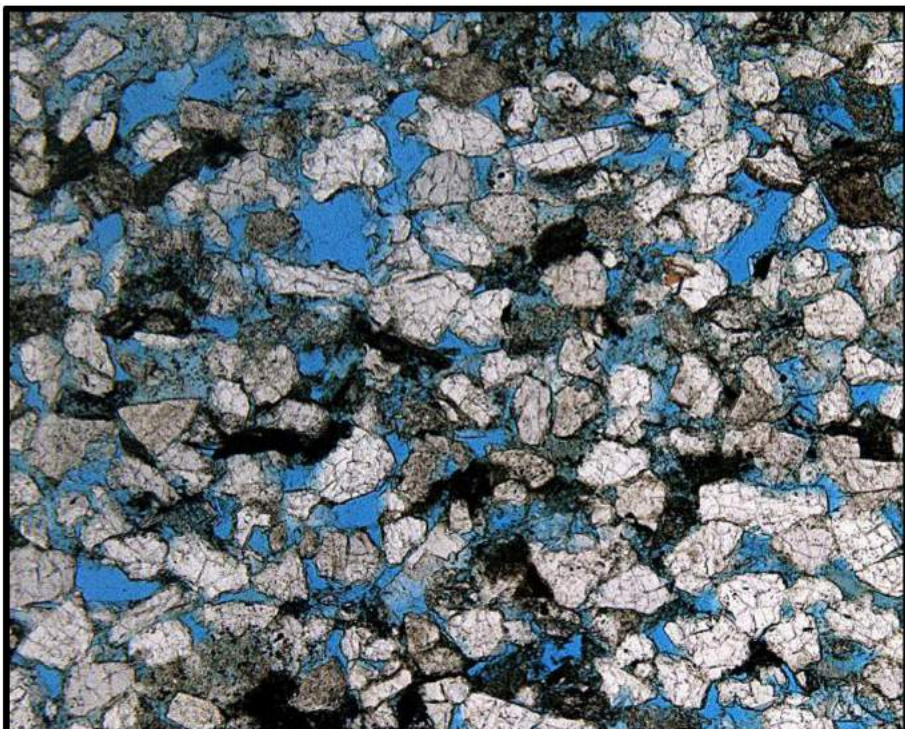
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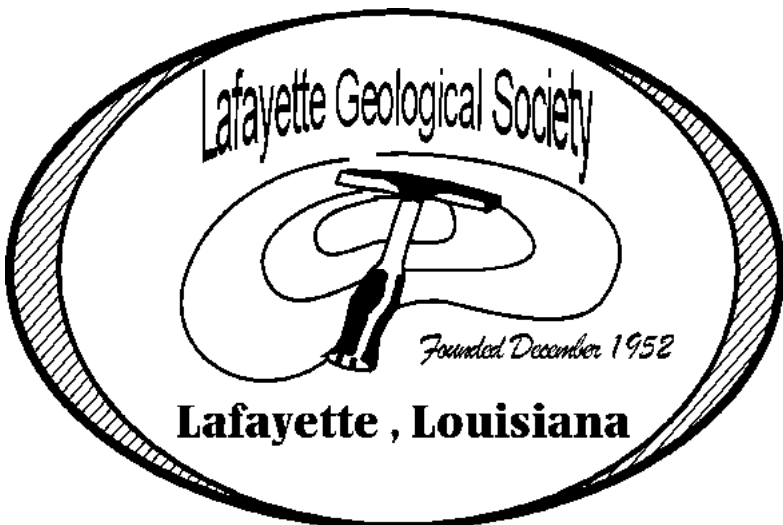
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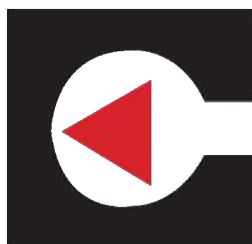
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This year LGS has teamed up with the Department of Geosciences to reinitiate and help sponsor the annual **Alumni Crawfish Boil** (April 30, 11:30 am–2 pm at the Alumni House). This has been successful in the past and hopefully will be a third venue for Student/Professional interactions into the future. If you are an alum of the University you have already received your invitation in the mail. Whether you can participate or not, you have the option to sponsor a student for the event. Profits are earmarked to go to the department, so some of the fees are designed to be fundraising.

“Secondly, this doesn’t work unless the membership makes the effort to participate.”

What is our membership? Ballpark #'s—there are over 500 currently listed. Of those about 40% do not pay dues and about 45% of the dues paying members are students. Granted many members (both dues paying and nonpaying) contribute to the cornerstone, and this helps us stay solvent. But this is just a breakeven condition, and we need to do better if we are going to meet the objectives of the Society.

“As many of us can attest, ULL is almost unique in the training it provides students to prepare them for geoscience careers in the energy industry. The University attracts top candidates to the petroleum curriculum.... They need our encouragement to continue.”

Ways you can encourage the next generation is to give generously of your resources, either volunteering time or making donations and helping support your society fundraising activities. There are two fundraising events coming up soon; the **Wine and Dine** on April 28, and the **Wax Lake Fieldtrip** on May 7. Each of these activities have expenses and without membership participation they cannot attain their fundraising objectives and could potentially cost the society, further depleting our resources.

The Wine and Dine event is limited to 24 participants, and the Fieldtrip has a maximum of 30 participants with 20 needed to cover costs. This level of participation is only about 10% of the membership. Let me repeat that, **“only about 10% of the membership.”** Be part of the 10%.

The prices for these events are inflated slightly in an attempt to guarantee some profit that will be returned to the Department of Geosciences. So not only do you get the benefits of enjoying a very inexpensive social and/or educational activity, but you also get the satisfaction of being able to help the students that will be our future replacements in the geoscience community.

If you haven’t yet registered for one of these events, there will be sign-up sheets at the luncheon Wednesday. Please bring your checkbooks and make plans to participate. It’s for a good cause.

WR (Bill) Finley

LGS ADVERTISING

A great way to get exposure for you and your service is by advertising in the LGS Bulletin. For just a few dollars a month, you can make your products and services known to about 400 geoscientists and petroleum related companies. We publish from September through May. Advertising is good for your business and helps support your Society.

Advertisement submission can be in digital format (any number of common formats such as .pdf, .gif, .tif, .jpg, .bmp can be accepted) or in a high-resolution print-out for scanning purposes.

To guarantee publication, please send materials by the 1st of the month directly to the LGS Editor.

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Please send all advertisements and communication (address changes) to the following address:

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Or, if you prefer, e-mail your file to the editor:

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1. Student - Full Time Geology - \$5.00
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4. Senior - Active who reaches age 60 - NO DUES
5. Honorary Life - Elected by Board (Active) - NO DUES

Each members' involvement in the Society is encouraged and any assistance with the areas below is welcomed. Please indicate if you are interested in serving on one (or more) of the following committees of the Lafayette Geological Society.

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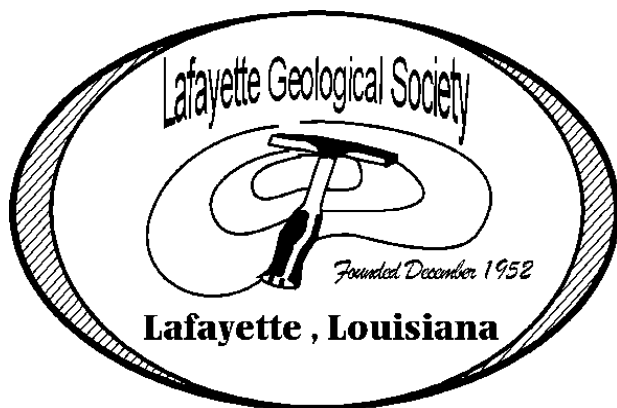
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