Let’s DIG IN!

Volunteer at the Mock Dig
October 2-10 • Details on p.13

Scholarship Special Report p. 5
New Core Tech p. 9
As Hurricane Ida barreled towards the Louisiana Coast in late August, it was well known that both the upstream and downstream operations in the Gulf Coast area would be affected substantially. What was not known was the extent to which these operations would be affected, or for how long. The category 4 storm made landfall on the morning of August 29, 2021, and at that point, nearly all production in the Gulf of Mexico was offline. A full week later, 80% of that production was still offline and five refineries were shutdown. Many reports are saying the Gulf Coast Region has not seen this kind of impact on oil and gas production and refining from a hurricane ever before; with the closest comparison being Katrina back in 2005. Thankfully Ida did not cause the substantial loss of life that was brought on by Katrina, but the damage to infrastructure, fuel supply, and people’s livelihoods will be felt for quite some time.

Through all of this devastation, the oil markets have stayed relatively stable with prices remaining in the $70 - $75 per barrel range. Natural gas markets, on the other hand, are a completely different story. In April 2020 the EIA predicted natural gas prices at Henry Hub would average $2.54 per MMBtu for 2021. At the time I am writing this, natural gas is trading at $6.02 per MMBtu; a whopping 237% over the EIA’s prediction for 2021’s average. While no one knows whether these prices will hold, it is obvious that if a cold winter sets upon us in the coming months, natural gas prices will stay elevated for the foreseeable future.
COVID-19 is still running rampant in the US, and sadly our state’s vaccination rates remain one of the lowest in the country. I can only hope that the surge in cases, hospitalizations, and deaths in Louisiana will change people’s minds and help convince them to get the shot.

The 28th Annual ALTAPL/SGS Golf Tournament was held on Friday, September 24, 2021 and I know everyone that took part in the festivities enjoyed the cooler weather. Our first SGS Member Meeting of this season was held on September 21, 2021 and it was our best attended meeting since the beginning of the pandemic. It certainly was a breath of fresh air to see a physical room full of people versus a virtual “Zoom room” full of people. The speaker, George W. Roth, gave an excellent talk about exploring for precious and base metals in Alaska. He also gave an overview of the current and future mining operations in the state, which was quite eye opening in terms of Alaska’s metal exploration potential. We are continuing to offer the speaker presentations in a Zoom format, so if you can’t make it to the meetings please don’t hesitate to sign up and watch via Zoom!

Michael Danos has lined up Blake Mock with Canamera Coring for our October 19, 2021 member meeting. Blake has an extensive background in both the MWD and coring fields, and I know I am looking forward to hearing him speak. The presentation will be based around core acquisition and new coring technologies.

The 45th Red River Revel is being held on October 2 – 10, 2021 and the Mock Dig is geared up and ready to go. We are always looking for volunteers to help out at the Mock Dig, so if you are willing and able, I encourage you to visit the SGS website and sign up for a volunteer spot. Carrie Salinas always does an incredible job at putting the Mock Dig together, so let’s all help her out by showing our support and volunteering.

Best regards,
Ian M. Byram
Faithful Friends 2020 - 2021

River Rouge Minerals
Grigsby Petroleum
Sugar Creek Producing Company
Hill Geophysical Consulting
William Hart
Stuart Oden
Jon E. Saye
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Chris Franks
Louise Pearce
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Clifford Leonard

To be a Faithful Friend for 2021-2022, please contact Kurt Ley.

Invest in the Future

You can donate to the SGS Scholarship Fund online at SGS1.org or by writing a check to the SGS with “Scholarship” in the memo line, and you may include an “in memory of” or “in honor of” note as well.

Mail to: Shreveport Geological Society, P.O Box 750, Shreveport, LA 71162.
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Scholarships:
A Special Report
From Ian Byram and Annie Green

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For the past 35 years, Shreveport Geological Society has been an advocate for helping future geoscientists with scholarship awards from a number of different scholarship funds. This is something that SGS is very proud of, and we would like to thank our members and benefactors for allowing us to champion this cause.

As you can see in the provided table, **SGS has awarded over $378,000 in scholarship awards since the first fund’s inception**. This money has gone to help students achieve not only their degrees, but their goals in life as well.

If you would like to help SGS continue this legacy, you may send donations of any amount to Shreveport Geological Society P.O. Box 750, Shreveport, LA 71162. Please note “SGS Scholarship Fund” in the memo section. Along with your partnership, we look forward to encouraging geoscience students through scholarship awards for generations to come.
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Calendar of Events

View this interactive calendar at SGS1.org

October 2 - 10
Volunteer at the Mock Dig at the Red River Revel

October 15
RSVP for the monthly meeting

October 19
Monthly Meeting
Blake Mock presents
“Core Acquisition and New Technology”
In-person 11:30 a.m. - 1 p.m.; Petroleum Club 15th Floor
Virtual 12:00 p.m. - 1 p.m. Zoom

October 27-29
GeoGulf 2021 in Austin, TX

On the Cover: Samples of what is hidden at the Mock Dig.

Interior Art: Page 1 “Series in White #2” (detail) by Christine Bailey, courtesy of the Bailey Art Gallery at 214 Texas Street.

Page 9 “Under Water” (detail) by Jerry Wray, showing at the Louisiana State Exhibit Museum through October 8. More at JerryWray.com.

Got news? Geology photos for the cover? Meeting page art?
Email it to the editor today: 1RachelMcNerney@gmail.com
The October Meeting

Make your RESERVATION

Blake Mock

presents

“Core Acquisition and New Technology”

Tuesday, October 19

Virtual
12:00 p.m. Zoom
$10

In-Person
11:30 a.m. Petroleum Club of Shreveport
$20 (Children 10 and under $8)

We encourage members to invite guests, spouses, and friends to any of our meetings.

If you’d like a seat, kindly RSVP by Friday, October 15 at SGS1.org or by calling Mike Danos at 318-332-7673
MILESTONE ENERGY, LLC

Oil & Gas Exploration and Development
Joseph A. Lott
Geologist / Managing Partner

333 Texas Street, Suite 516
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jlott100@bellsouth.net

Office: 318.212.0470
Fax: 318.212.0469

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Blake Mock

Blake has a combined 15 years of operational and sales experience within the oil and gas industry. He attended Austin College in Sherman, TX, where he graduated with a Business Administration degree and was captain of the varsity football team. From there, he went straight into the field working for Multi Shot as an MWD hand and was then promoted to MWD Coordinator. Blake then began his journey in sales with NOV Coring and then moved on to Canamera Coring, where he is now the U.S. Sales Manager and has over 11 years of experience in coring.

Abstract

“Core Acquisition and New Technology”

The coring industry has seen a significant transition in the ability to core longer intervals in fewer runs. For instance, earlier in this century, a 90’ + run would have been considered an enormous success and would have taken much planning and careful execution to implement. Now, because of new innovative engineering designs for coring technologies that have come into play in the last couple of decades, single coring runs of over 300 feet have been successfully accomplished in multiple basins throughout North America.

In this session, we will discuss the technologies that have made coring more operationally efficient and cost-effective while making longer run lengths more feasible.

Keep in Touch through the Shreveport Geological Society LinkedIn Group.
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Exploration and Development
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903-758-8276 (O)

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330 Marshall Street
Suite 628
Shreveport, LA 71101

Eric Weiss
President
(318) 221-8694
Fax: (318) 227-2106
Mock Dig Volunteers Needed

Each year the Shreveport Geological Society participates in the Red River Revel by organizing the Mock Geological Dig, courtesy of Security Exploration. SGS members volunteer to introduce young people to the excitement of scientific discovery. Rocks, minerals and fossils are scattered in a giant sand box that is roped off in squares, just like a real geological dig!

Children are encouraged to claim a section and hunt for quartz, pyrite, sharks' teeth, and polished rocks for a 15-30 minute shift, after which volunteers reseed the dig. Young adults high-school- to college-aged are encouraged to volunteer at the dig along with SGS members to learn more about rocks and minerals and to understand how important science is in our community.

Please volunteer for a shift that fits your schedule! You will also receive a commemorative t-shirt. More details at:


The Mock Dig will be open October 2-10:

Saturdays 11AM – 10PM
Sundays 11AM – 7PM
Monday – Wednesday 5PM – 9PM
Thursday – Friday 5PM – 10PM
Kingwood Exploration, LLC
Oil & Gas Exploration and Production

Kurt M. Ley
Exploration Manager & Partner

Robert E. Braswell
Engineering/Operations Manager & Partner

416 Travis St., Suite 1100
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Fax: 318-946-8287
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Oil Patch Quiz
By Steve Walkinshaw, P.G.

Oil patch quiz time. Were it not for the coring of a key interval in its discovery well, a certain field ("J") would not have been discovered ~14 years ago. LWD and core gamma ray curves indicated a very shaley interval; instead, the core was essentially 100% sand and saturated with oil.

This discovery (and several others that followed) was made in a "mature" area. Where optimal, reservoir porosity and permeability is phenomenal: as high as 30% and 12 darcies. Production has exceeded 90,000 BOPD.

It appears oil migrated into these traps less than 1.6 Ma. Biodegradation has impacted oil above 6,430 feet.

Questions...
Part 1: What field ("J") am I referring to?
Part 2: In what country?
Part 3: What adjacent discoveries were (a) "I" (b) "K" and (c) "L"?
Part 4: What is the age of the field "J" reservoir?
Part 5: What's the lithology and age of its topseal as shown in "B" and "E"?
Part 6: The fields shown are atop or on the flank of the large basement uplift "M". What's its name?
Part 7: What is the source of the oil that charged field "J"?
Part 8: What caused the upward structural movement believed associated with the biodegradation of the oil in the area?

Bonus:
Part 9: What producing province did the discovery of "J" revitalize?
Part 10: What company generated prospect "J"?
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Oil Patch Quiz

Answers on p. 29
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Gregory K. Madden
Christopher D. Franks
Senior Geologist
Lonnie J. Shaw
Director of Accounting & Finance
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(318) 429-2229 Fax
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Monthly Permits – August 2021
Provided by ABCD GIS Mapping

Texas Permits

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See Map on following page.
Monthly Permits – August 2021
Provided by ABCD GIS Mapping

Map

See Texas & Louisiana Permits listed on previous page.
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Marketing contact:  
Layne Williams  
lwilliams@seismicexchange.com
George W. Roth presented “Exploration for Precious and Base Metals in Alaska: The Last Frontier.” SGS members and guests enjoyed the presentation and lunch at the Petroleum Club of Shreveport.
71st Annual Gulf Coast Geoscience Convention

1. EP
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2. RM
   Resource Management

3. SE
   Sustainable Energy

4. Tech
   Technology

5. PD
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Downs Energy Acquisitions, LLC
SHREVEPORT, LOUISIANA
318-465-1302
Oil Patch Quiz

Answers

Part 1: What field ("J") am I referring to? Edvard Grieg
Part 2: In what country? Norway
Part 3: What adjacent discoveries were (a) "I" (b) "K" and (c) "L"? (a) Apollo, (b) Ragnarrock, and (c) Johan Sverdrup
Part 4: What is the age of the field "J" reservoir? (main reservoir) Triassic
Part 5: What's the lithology and age of its topseal as shown in "B" and "E"? Upper Cretaceous chalk
Part 6: The fields shown are atop or on the flank of the large basement uplift "M". What's its name? the Utsira High
Part 7: What is the source of the oil that charged field "J"? the Draupne Formation
Part 8: What caused the upward structural movement believed associated with the biodegradation of the oil in the area? isostatic rebound following the end of Plio-Pleistocene glaciation in the region
Part 9: What producing province did the discovery of "J" revitalize? the Norwegian Continental Shelf
Part 10: What company generated prospect "J"? Lundin Norway

*****************************************************************

Here are the credits for / sources of the images shown in the montage.

Images "A", "B", "C", "D", "E", "G" and "H": "Unfolding by Holistic Thinking, Giant and Significant Oil Discoveries in a Mature Area: Discovery of Edvard Grieg, Johan Sverdrup and Luno II in the Norwegian North Sea" (Hans Rønnevikand and Arild Jørstad), Search and Discovery Article #110173 (2014)

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(* Deceased)
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<th>Honorary $0 / yr</th>
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**NAME (Please Print)**

☐ Check if new applicant or change of address.

**LAST NAME**

**FIRST**

**INITIAL**

**NICKNAME**

**COMPANY**

**POSITION OR TITLE**

**COMPANY MAILING ADDRESS**

**CITY**

**STATE**

**ZIP**

**COMPANY PHONE**

**HOME ADDRESS**

**CITY**

**STATE**

**ZIP**

**HOME PHONE**

**FAX NUMBER**

**E-MAIL ADDRESS**

**CELL PHONE**

**SCHOOL**

**DEGREE**

**MAJOR**

**YEAR**

**PROFESSIONAL AFFILIATIONS**

☐ AAPG

☐ GSA

☐ SEG

☐ SEPM

☐ AIME

☐ SPE

☐ SPWLA

☐ OTHER

**OUTLINE OF EXPERIENCE**

**SPOUSE’S NAME**

**PREFERRED MAILING ADDRESS**

☐ HOME

☐ BUSINESS

☐ EMAIL ME THE NEWSLETTER (no printed copy will be mailed)

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☐ Student

**Executive Board**

Approved: __________________

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Date: __________________