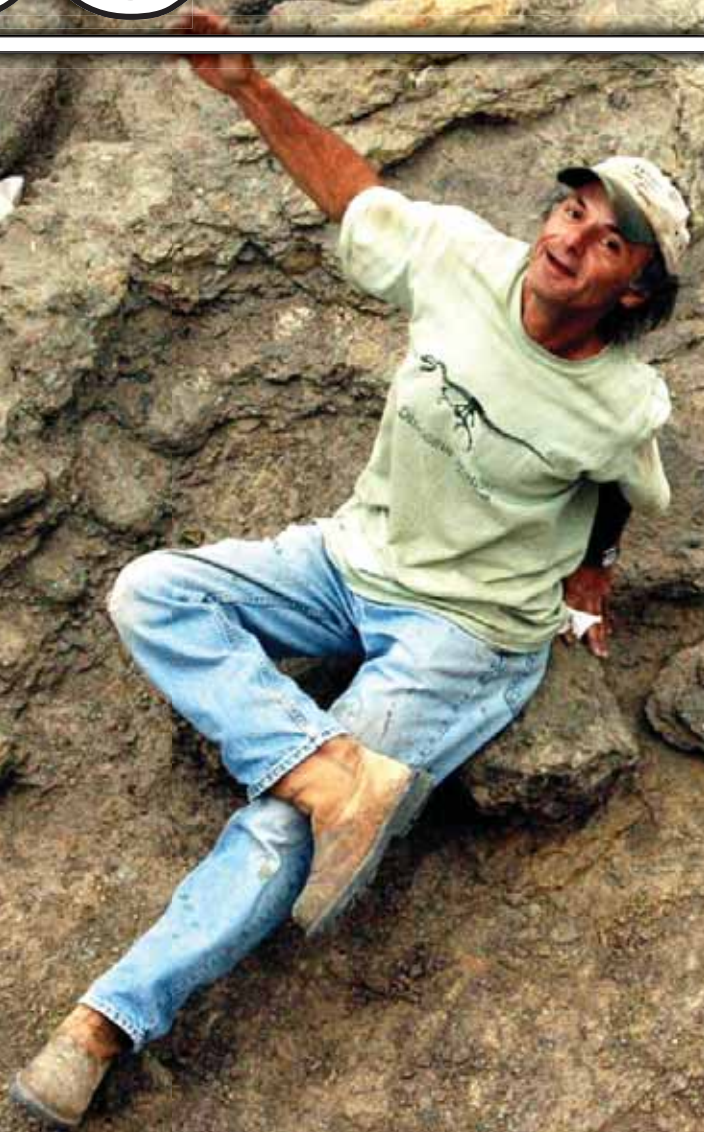


NOGS LOG

APRIL 2016

Volume 56, Number 10



APRIL 4 - NOGS LUNCHEON
Presentation: Geoarchaeology of Tectonic Events in South Louisiana
Guest Speaker: Dr. Sherwood "Woody" Gagliano
Coastal Enironments, Inc. • Baton Rouge, Louisiana

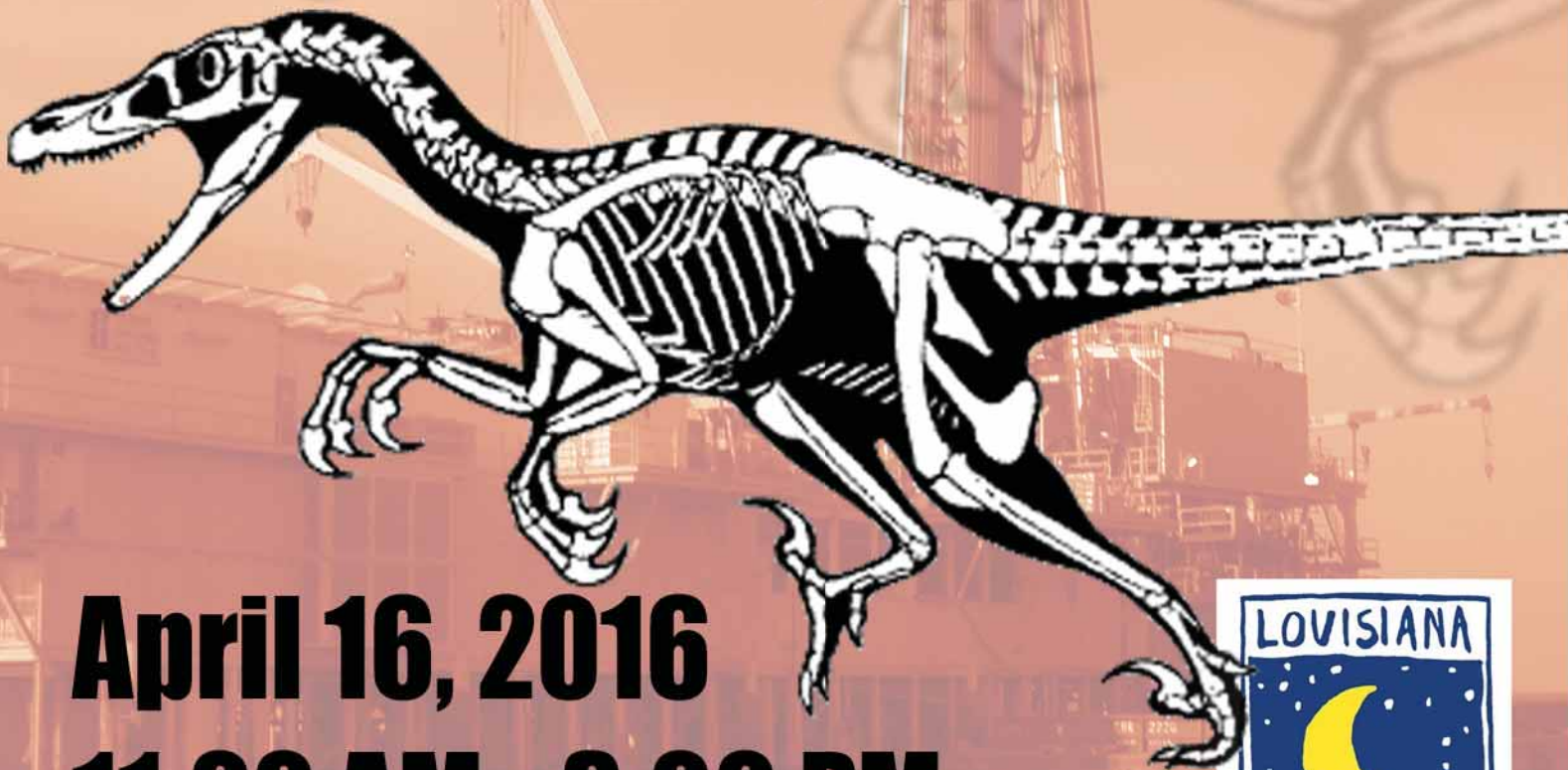


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April 16, 2016

11:00 AM - 3:00 PM

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The Louisiana Children's Museum and
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Published monthly by the New Orleans Geological Society.
This issue was sent to press on March 22, 2016.

Interested in contributing to the NOGS LOG? Please submit items by the 1st Friday of the month to nogseditor@gmail.com. Advertising requests should contact the NOGS office at info@nogs.org.

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on the cover

Cover Photo taken by Terry Pfister of PaleoGallery

Bob Simon and his Camarasaurus Discovery Big Horn Basin - Shell, Wyoming

This spectacular dinosaur find occurred in 2007 along the river terraced badland cliffs of the Jurassic Morrison formation in the eastern side of the Big Horn Basin. Bob is seen with the upper tail section and the large hind leg bones. This find was nearly 95% complete and was painstakingly documented and unearthed. The specimen was plaster-jacketed and prepared over several years and the bones are now on permanent display at the Fukui Prefectural Dinosaur Museum in Japan. The museum also has a life-size representation of the actual dinosaur dig site. The photograph was taken from the overlying bluff looking down on the specimen. 40 feet of overburden was removed in this area to excavate the Camarasaurus and allow this ideal high vantage point view of the skeleton.

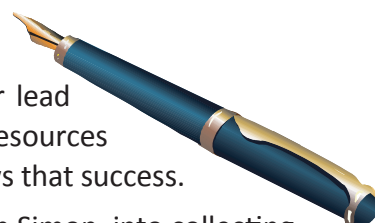
From the Editor

This April issue features Bob Simon's search for dinosaurs in Wyoming as our lead story this month. Taking a path in life that brings one's passion, geological talent, resources and education of youngsters is a sign of true success. Our cover photo of Bob shows that success.

Be sure to read Dave Reiter's page that leads off on how we get hooked, like Bob Simon, into collecting rocks and parlay that into a profession in geology. Dave also highlights upcoming NOGS events in a way that a simple calendar listing cannot.

In Drill Bits, Carlo Christina interviews seasoned explorationists on how best to weather the current downturn. The EIA shows the price of WTI may have bottomed out in February. Anyone think we'll see \$60 oil by year-end?

Linda Fulton, former Exxon geologist in New Orleans has an interesting story about seismic sleuthing in our On the Rocks column.



Tom
Tom Klekamp, Editor



Contact:
Annette Hudson
info@nogs.org

2016 ADVERTISING RATES

The New Orleans Geological Society was formed in 1941, with an initial membership of only 55. It has always been an active professional society and presently has a membership of 500.

AD SIZE	2015 RATE	NEW 2016 RATE!
Full Page (7.5"x10")	\$3500	\$1750
Half Page (3.75"x10" or 7.5"x5")	\$1850	\$925
Quarter Page (3.75"x5" or 7.5"x2.5")	\$1000	\$500
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Note Size (3.75"x.75")	\$120	\$60



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Opposite Oral Abstract.....	+20%
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PROTECTING OUR NATURAL RESOURCES

Our mission is to protect the public health, safety, and welfare and to guard the state's natural resources with regard to environmental and civil projects where a geoscientific review and evaluation is required in the making of recommendations of any geoscientific components of said projects.



From the President

When I was a young lad, my father would take me and my brothers out into the southern New Mexico desert, walk up and down the arroyos, and pick up and identify the many types of rocks and minerals to be found there. That was my first exposure to the wonderful world of geology, which eventually turned into a 38 year career (and counting). How did you initially become intrigued by the science of geology? Everyone has their own story of how and when they first caught the “geology bug.” For some, they found their geological calling after entering college in pursuit of that perfect career. But for many, the interest in geological science came very early with the help of teachers, friends, relatives, and perhaps a few professional geologists from local geological societies who volunteer their time and money to help with early childhood education. Such an opportunity to help is presenting itself in the form of two upcoming NOGS sponsored events in April. The first is the Super Saurus Saturday event at the Louisiana Children’s Museum in downtown New Orleans on Saturday, April 16 (see flyer in this *NOGS LOG*). NOGS has nearly twenty manned exhibit tables filled with dinosaur fossils, rocks, minerals, and displays regarding seismology and the petroleum industry. This event is truly a fun time for both volunteers and the hundreds of children who often show keen interest in the wide variety of geologic information shown to them. It’s easy to see that some of these children will continue their interest in geology first fostered at this event, and eventually become professional geologists like the rest of us.

The second NOGS event that will indirectly help young children’s education in the greater New Orleans area is coming up at the end of April. This year, NOGS is partnering with PLANO to host the annual golf tournament scheduled for Monday, April 25, at the Money Hill Golf and Country Club north of Abita Springs (see flyer in this *NOGS LOG*). Profits from the tournament go toward our ten-year commitment to help fund the construction of two new children’s museums in New Orleans and near Mandeville. NOGS is currently seeking players, corporate sponsors, and volunteers to help make this event a big success. So, if you can’t volunteer for SuperSaurus Saturday, come out and enjoy a fun-filled day of golf and support children’s education at the same time.

Another way that NOGS is helping with children’s education is in the newly constructed traveling rock kits

that Dave Cope has been diligently putting together. Members can borrow a kit from the NOGS office to take to elementary and secondary schools as a teaching aid to show children the basics of rocks, minerals, and fossils. So far, one kit is nearly completed and another is being pulled together. They will contain samples of igneous, metamorphic, and sedimentary rocks as well as numerous flash cards for identification of minerals. Eventually these kits may be expanded to include samples of both dinosaur and invertebrate fossils. If you’re interested in borrowing one of these kits, call the NOGS office, 504-561-8980, and make arrangements with Annette.

At the recent API awards luncheon on March 15th, NOGS member Tom Bergeon was awarded the 2016 API Meritorious Service Award for his numerous accomplishments in the area of geologic education for children. Tom organizes and runs the Super Saurus Saturday event mentioned above and has constructed and maintains a large collection of dinosaur bones and other fossils for teaching purposes. He is also involved with the boards of both the Louisiana Children’s Museum and the Children’s Museum of St. Tammany Parish, and was instrumental in instituting NOGS’ ten-year commitment to funding new museums for both these organizations. Congratulations, Tom — well deserved!

Our next NOGS luncheon is scheduled for Monday, April 4, 11:30 am, at the Holiday Inn Downtown. The speaker, Dr. Sherwood “Woody” Gagliano is the CEO of Coastal Environments, Inc. in Baton Rouge, and his talk is entitled “Geoarchaeology of Tectonic Events in South Louisiana.” Those of you interested in geological processes related to coastal restoration and remediation should find this presentation very informative. Also, at this meeting we will officially place into nomination candidates for the slate of officers for election to next year’s NOGS Board of Directors. It’s not too late to get your name on the list of candidates. And, if you get this *NOGS LOG* in time, please join us at the NOGS / SPE Spring Social on Saturday, April 2 at Second Line Brewing in Mid-City New Orleans. The party is from noon to 2 pm and for \$7 you get two drink tickets and some light snacks. Admission is free if you join NOGS as a new member. Call Jeremy Prouhet, 985-773-0321, for more information.

See you at the next NOGS Luncheon.

David Reiter

NOGS Office

Office Manager: Annette Hudson

Phone: 504-561-8980 • Email: info@nogs.org • Website: www.nogs.org

The office is located at 810 Union Street, Suite 300, New Orleans, LA 70112.

Correspondence and all luncheon reservations should be sent to the above address.



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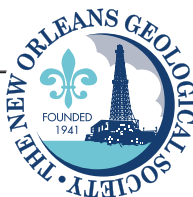
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Non-Technical Education	Duncan Goldthwaite	Consultant	504-887-4377	DGldthwt@aol.com
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Special Projects	TBD			

NOGS LOG STAFF

Editor	Tom Klekamp	Amber Resources, LLC	985-630-2480	ekle1959@gmail.com
Editor-Elect	Laura Sorey	Chevron	985-773-1870	laura.sorey@chevron.com
Auxiliary	Peggy Rogers	NOGA	504-392-6323	lrogers79@cox.net
Drill Bits	Al Baker	Beacon Exploration, LLC	504-836-2710	ABaker1006@aol.com
Drill Bits	Carlo C. Christina	Retired (C & R Expl. Inc.)		carlocc398@aol.com
Drill Bits	Kevin Trosclair		504-202-7997	kevintrosclair@gmail.com
Staff Photographer	Arthur Christensen	Shalimar Consulting	985-893-2013	arthur_shalimar@yahoo.com
Layout / Printing	Kristee Brown	Creative Graphics & Printing, LLC	985-626-5223	kpbrown@bellsouth.net
Webmaster	Charles Miller	OCSBBS Website	504-439-3164	cmiller@ocsbbs.com

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Officers		Phone	Directors	Year	Phone
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April 4 • NOGS Luncheon

Holiday Inn Downtown Superdome

\$3.00 validated parking in hotel garage

Presentation:

Geoarchaeology of Tectonic Events in South Louisiana

Guest Speaker:

Dr. Sherwood M. "Woody" Gagliano

Coastal Environments, Inc. • Baton Rouge, Louisiana

See pages 8 and 9 for Abstract and Biography

HOLIDAY INN DOWNTOWN SUPERDOME

Check with concierge or
front desk for location.

Lunch served at 11:30 am

ADMISSION:

With reservation..... \$30.00

Without reservation \$35.00

Student Member with reservations..... FREE

April 2

NOGS/SPE Delta Chapter Spring Social

Noon - 2:00 pm • \$7 for 2 drink tickets with light snacks
Second Line Brewing • 433 N. Bernadotte St. (off City Park Ave.)

For additional information, call Jeremy Prouhet at 975-773-0321

Admission **FREE** if you join NOGS as a new member!

April 19

SIPES Membership Drive & Crawfish Boil

11:30 am - 2:00 pm

The Harbor Bar & Grill • 3024 17th St. • Metairie, LA

Reservations: Eric Broadbridge, 504-832-3772, eric@northcoastoil.com

April 16

Super Saurus Saturday

11:00 am - 3:00 pm

Louisiana Children's Museum • New Orleans, LA

To volunteer, contact Tom Bergeon at 504-832-3772
or tom.bergeon@upstreamexp.com

April 25

NOGS / PLANO Golf Tournament

Money Hill Golf and Country Club • Abita Springs, LA

Call NOGS office for information on hole sponsorship, 504-561-8980

See pages ?? of this NOGS LOG for more information

**VOLUNTEERS
NEEDED!**

**VOLUNTEERS
NEEDED!**

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Continued from previous page

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Phone

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504-593-3623
504-947-8495
504-220-6208
504-214-6754
985-630-2480
504-975-6735
504-836-2710

E-mail

kelli.hardesty@erm.com
reiterde@stoneenergy.com
bootscon@aol.com
artjohnson51@hotmail.com
greatmre@aol.com
ekle1959@gmail.com
charleswholman@bellsouth.net
abaker1006@aol.com

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elizabeth_mcdade@fmi.com
gregory.janevski@shell.com
artjohnson51@hotmail.com
bootscon@aol.com
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504-736-1755

neelfallis@gmail.com
ctpoyer@gmail.com



April 4 NOGS Luncheon Presentation

☆☆☆ at the Holiday Inn Superdome ☆☆☆

Geoarchaeology of Tectonic Events in South Louisiana

Presented by

Sherwood M. Gagliano

Coastal Environments, Inc.
Baton Rouge, Louisiana
sgagliano@coastalenv.com



ABSTRACT

A new model of interactions between Late Quaternary tectonic events and landform/ecological changes has been developed for South Louisiana. Landform signatures of fault movement have been identified on both terrace uplands and coastal lowlands and correlated with known subsurface faults and in some instances with earthquakes. The surface expressions include fault scarps, deformation depressions, springs, severed natural levees, stream and shore alignments, and tilting of fault-bound blocks. Some tectonic events are slow and imperceptible while others are short duration, high-energy occurrences. These events and changes affected Native American settlement patterns and site geometry. Relationships between prehistoric archaeological sites and surface fault signatures have been identified enabling dating of paleo-tectonic events and understanding of site locations and possible cultural response.

Of particular interest are apparent relationships between archaic mound groups and scarps and induced topographic depressions,

that occur along regional growth faults that strike east-west across the lower Mississippi River valley. Geological evidence suggests that the faults were activated by a regional tectonic event, which caused the trunk channel of the Mississippi to shift from the west side of its valley (Teche Mississippi) to the east side (St. Bernard Mississippi). This event, or series of events, occurred around 4500 years before present, and may have been accompanied by earthquakes of magnitude 5 or greater. Relationships between tectonic related features and mounds have been identified at a number of sites near the intersections of the regional faults and the river valley margin. These include Monte Sano Bayou (16EBR7), LSU Campus (16EBR6), and Belmont (16SJ1) along the east side of the valley and Bayou Courtableau (16SL11) on the west side. An implication of the correlations is that earthquake effects accompanied by dramatic landscape changes may have influenced the location of some Archaic ceremonial centers.

BIOGRAPHY

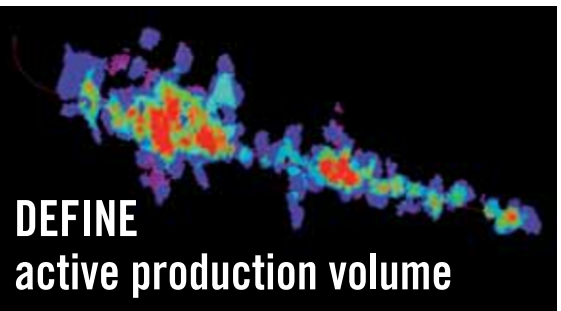
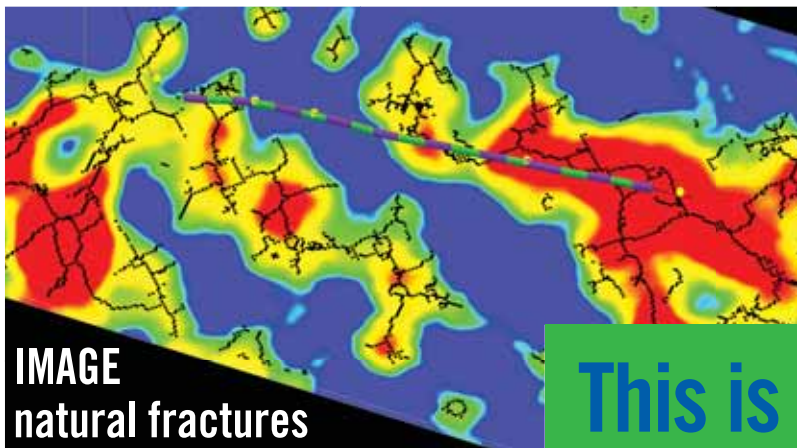
Sherwood M. Gagliano studied geology and geography at Louisiana State University where he received his Ph.D. in 1967. He was an L.S.U. faculty member for a number of years. He is the founder, and has been the President of Coastal Environments, Inc.; a Baton Rouge based applied science and planning firm, since 1973. Dr. Gagliano has over 50 years of research experience and has served as Principal Investigator for innumerable environmental, geological and archaeological projects conducted for federal, state, and local government agencies as well as for private sector clients. He has conducted research in a number of foreign countries, but is best known for his work on erosion, deterioration and restoration of the Louisiana coast. Dr. Gagliano and his colleagues first documented the severity and extent of erosion and deterioration along the Louisiana coast in the late 1960s and played a leadership role in bringing the problem to the attention of the scientific community, the public and decision-makers. He has been, and continues to be, deeply involved in the evolution of the state's coastal management and restoration efforts. Dr. Gagliano is a member of numerous scientific and professional organizations, including: the Geological Society of America, the American Association of Petroleum Geologists, the Society of American Archaeology and the Society of Sigma Xi. He was founding president of the Louisiana Archaeological Society. He has published over 100 papers and articles.



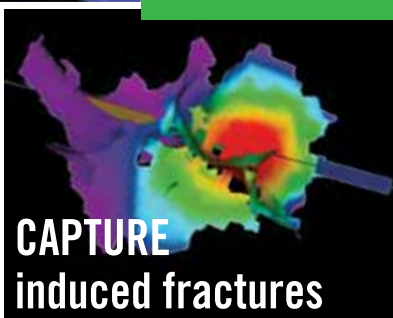
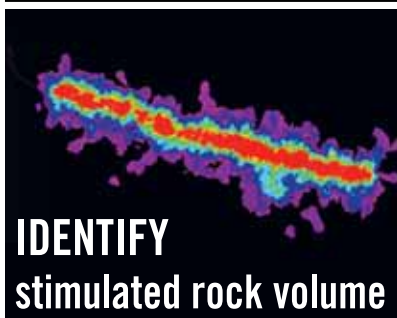
THE LUNCHEON RESERVATION DEADLINE IS APRIL 1 - CONTACT THE NOGS OFFICE

"And Looking Ahead . . ."

The next luncheon will be held on May 2. Our guest speakers, Alexis Lang and Joshua Hartley, John Curtis Science Fair Winners, will talk about their research in Rare Earth mineralogy. Contact the NOGS office at 561-8980 or use the PayPal link on the NOGS website (www.nogs.org) to make your reservation.



This is AMBIENT Seismic.



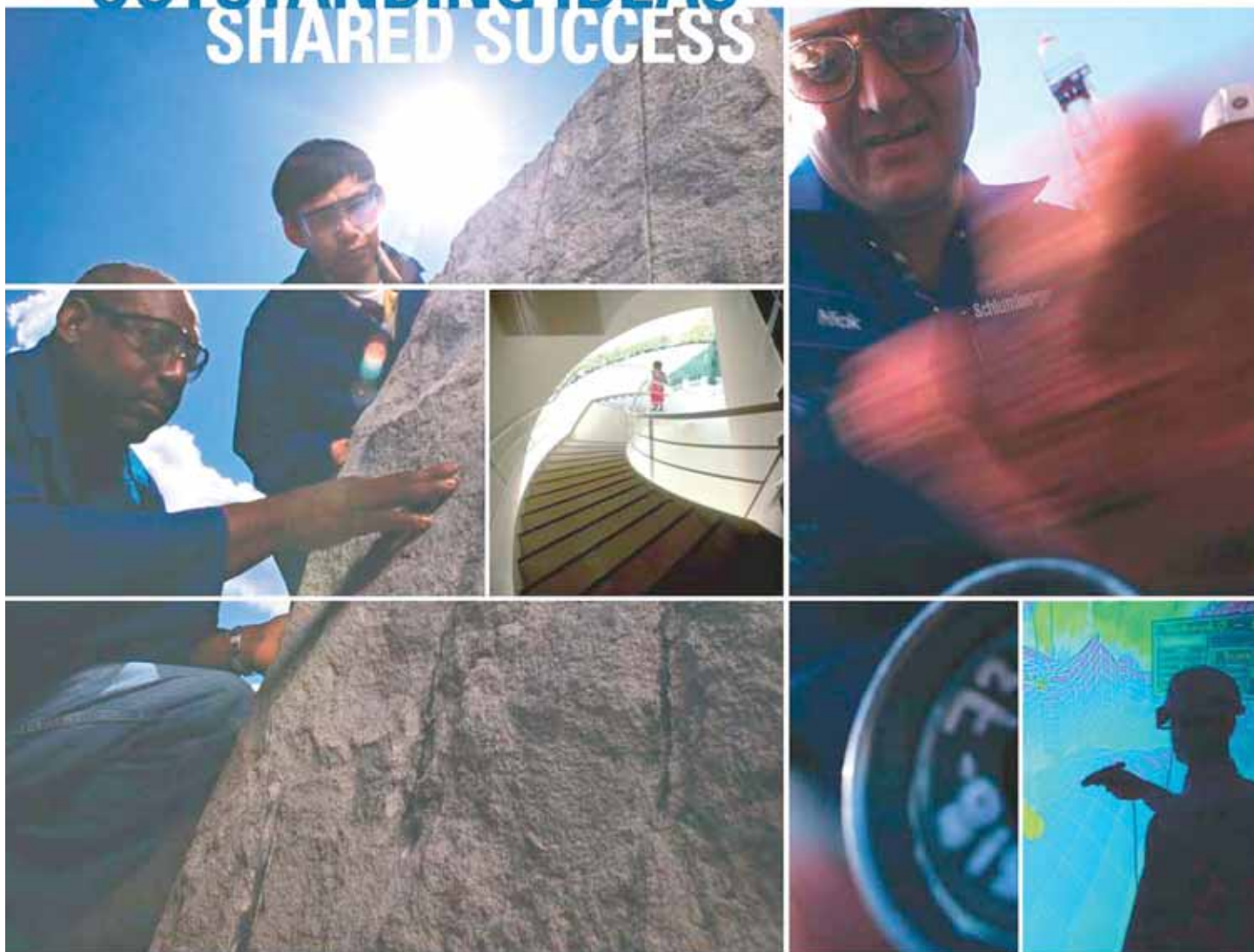
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CALENDAR OF EVENTS: APRIL & MAY 2016

2016	EVENT	LOCATION	CONTACT / INFO
1 Apr	Submissions due for May NOGS LOG		nogseditor@gmail.com
2 Apr	NOGS/SPE Spring Social \$7 for 2 drink tickets, includes light snacks. FREE if you join NOGS at the door.	Second Line Brewing 433 N Bernadotte St (off City Park Ave)	Jeremy Prouhet 975-773-0321
3 Apr	Geologists Day	Established USSR, 1966	http://kremlinpalace.org/en/events/geologists-day-rich-resources-flourishment-russia
4 Apr	NOGS Luncheon Dr. Sherwood "Woody" Gagliano "Geoarchaeology of Tectonic Events in South Louisiana"	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
8 Apr	Baton Rouge GS Luncheon Topic: TBA	Mike Anderson's 1031 W Lee Dr, Baton Rouge	Lisa Pultz at lisapultz@cox.net or http://www.brgs-la.org/
12 Apr	Petroleum Geology for Non Geologists 8:30 a.m. - 3:30 p.m.	Shell Annex Auditorium 701 Poydras St.	\$35 - Contact annette@nogs.org or 504-561-8980
14 Apr	SGS Luncheon	Holiday Inn Superdome	Louis.Sturgess@shell.com 504-425-7636
16 Apr	Super Saurus Saturday 11:00 a.m. - 3:00 p.m.	LA Children's Museum	Tom Bergeon, 504-832-3772 tom.bergeon@upstreamexp.com
18 Apr	NOGS Board Meeting	NOGS Office	annette@nogs.org or 504-561-8980
19 Apr	SIPES Membership Drive Crawfish Boil 11:30 am - 2:00 pm	The Harbor Bar & Grill 3024 17th St, Metairie	Reservations: Eric Broadbridge eric@northcoastoil.com, 504-884-0049
21 Apr	SPWLA Luncheon	Holiday Inn Superdome	https://www.spwla.org/chapters/new-orleans
25 Apr	NOGS-PLANO Golf Tournament	Money Hill Golf & Country Club Abita Springs, LA	annette@nogs.org or 504-561-8980
2 May	NOGS Luncheon John Curtis Science Fair Winners Alexis Lang and Joshua Hartley talk about their research in Rare Earth mineralogy.	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
6 May	Submissions due for June NOGS LOG		nogseditor@gmail.com
12 May	SGS Luncheon	Holiday Inn Superdome	Louis.Sturgess@shell.com 504-425-7636
13 May	Baton Rouge GS Luncheon	Mike Anderson's 1031 W Lee Dr, Baton Rouge	Lisa Pultz at lisapultz@cox.net or http://www.brgs-la.org/
19 May	SPWLA Luncheon	Holiday Inn Superdome	https://www.spwla.org/chapters/new-orleans
23 May	NOGS Board Meeting	NOGS Office	annette@nogs.org or 504-561-8980
19-22 Jun	AAPG ACE 2016	Calgary, AB	http://ace.aapg.org/2016
17-18 Aug	2016 Deepwater Technical Symposium	Downtown N.O. Mariott	www.deepwaternola.org
18-20 Sep	GCAGS Convention	Corpus Christi, TX	http://www.gcags2016.com

New Orleans Geological Auxiliary News

"The objective of the Auxiliary is to promote fellowship among the wives of the members of the New Orleans Geological Society and to render assistance to NOGS upon request."



Chairman, Mary Ellis Hasseltine and Judy Sabaté



Ruth Ingram, daughter Diane Sehrt and Trudy Corona



*Earleen Rodan, Don Andrews, Susie Baker,
Carol Andrews and Al Baker*

On February 17th the NOGA ladies gathered at the Metairie Country Club with their invited spouses and guests to enjoy a delicious luncheon, be informed and entertained by speaker Jeff Crouere. Jeff is the host of "Ringside Politics", a weekly radio program on WGSO, 7:00–11:00 a.m. Mr. Crouere also hosts "Politics with a Punch" monthly at The Eiffel Society, 2040 St. Charles Avenue, which starts at 6:00 p.m. It was entertaining to have Mr. Crouere bring his political views and information to our group especially in this year of state and national elections. Thanks to Jim and Camille Yeldell for sponsoring us at the Metairie Country Club and Mary Ellis Hasseltine and Judy Sabaté for planning such an enjoyable day.

The next NOGA event to look forward to is the Spring Social, Saturday, April 16th, at the home of Jean Jones. Judy Lemarié, Alma Dunlap and Jean will see to it that everyone enjoys a lovely evening at Jean's beautiful home on Country Club Drive.

To wind up a wonderful year, Linda Peirce and Peggy Rogers are planning an Installation Luncheon at the historic Ormond Plantation Restaurant. Former Board members and future Board members will be recognized.

Peggy Rogers, *NOGS LOG*

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From oil exploration, to finding world class dinosaurs, **Bob Simon's Amazing Jurassic Journey**

Geologists are a most curious group, known to explore their passions far and wide. Not a day goes by where we don't envision ourselves on an outcrop taking it all in. One of our very own exemplifies this to the utmost. Bob Simon spent twenty years in New Orleans with Chevron exploring for oil in the Gulf of Mexico. Virginia and the Appalachian Mountains had been his home, imbuing Bob with a passion for rocks, minerals, fossils, geology and especially dinosaurs.



He was the ideal person to develop our NOGS fossil collection and worked to help establish our classroom programs, even donating key pieces. Almost immediately, NOGS was hosting large-scale events like Super Saurus Saturday at the Louisiana Children's Museum. In those early years Bob and Karen, carefully packed a U-Haul to bring their most impressive fossils to the Museum. There, he was a huge hit, extracting

dinosaur bones from their matrix, right in front of both kids and their parents.

Bob received his B.A. in Environmental Sciences at the University of Virginia and his M.S. in Geology at Virginia Tech. Bob and his wife Karen arrived in New Orleans in 1981, bringing along his extensive collection. It wasn't long before Bob was flying out to the Tucson Gem and Mineral Show, the world's largest, and adding choice specimens to his mantelpiece. The Simons moved to Mandeville where Bob was able to spread out and focus on prepping fossils in his home.



Bob and Bill Whiting at SuperSaurus Saturday 2002



Bob using an air scribe to prepare bones



***View of the Morrison Formation
and the Bighorn Mountains***

He was having fun, and it wasn't long before Bob wanted to unearth dinosaur bones on his own. He spent his vacations in Wyoming; utilizing his geology skills to quickly discover prolific fossil beds. Three years later, in 2002, Bob followed his dream, left Chevron, moved back to Virginia and headed for Wyoming in the summers, settling in Shell, just west of the Big Horn Mountains.



Exploring with an oversized toothpick

Bob thought, “I gave up looking for oil and gas to look for dinosaurs. Both can be high risk and high reward. Both need a good science background—both need luck!”

“In oil and gas, I used seismic to lessen the risk of finding hydrocarbons, but that tool doesn’t work at the scale for finding dinosaurs,” Bob mused. “It takes surficial geology and sedimentology to know where to search. Then, dig, dig, dig.”



Juvenile Apatosaurus

And dig he did. Bob spent summers in Wyoming, digging up bones; winters in Virginia, preparing the summer specimens. His company, Dinosaur Safaris, Inc. has been in operation for over fifteen years and it also allowed educational opportunities for junior paleontologists and their families to experience a dig site.

Bob studied the drainage areas and badlands in Wyoming's Big Horn County and soon had a dig site procured from a local rancher. The area of the dig site was a Jurassic Morrison-aged river system with significant river meanders, point bars, over-bank deposits and multiple flooding events. Here, the Morrison formation is over 300 feet thick. Evidence suggests that these river systems may have dried up or shifted over time during more semi-arid conditions. This created a very complex stratigraphic pattern in the Morrison-age strata. This had a direct impact on the preservation and placement of the Jurassic dinosaur bones and dinosaur skeletons. Within the main quarry there have been at least five death zones established. These are distinct, vertical layers that differ in age and within which dinosaur remains are found. Some of the layers contain articulated (in living position) complete dinosaurs, while others contain a wide variety of mixed and jumbled-up bones from many species.

Under Bob's leadership a number of world-class, near complete specimens have been found including an adult Camarasaurus, a Stegosaurus, an Allosaurus and a juvenile Apatosaurus.



Stegosaurus Sophie, Museum of Natural History, London

In 2004 Bob and his crew unearthed "Sarah," the most complete Stegosaurus skeleton found to date. Sarah was named in honor of the rancher's daughter.

It comprised 360 individual bones; 85 percent of the articulated skeleton was in place. Kirby Siber and his crew assisted Bob in finishing the daunting task of removing Sarah before the end of the field season. Sarah was then shipped to the preparation laboratory of the Saurien Museum in Switzerland. Two years, and thousands of man-hours later, the Stegosaurus preparation was finished and the dinosaur was ready to find a home. It took almost ten years to find a prestigious home, but the Stegosaurus is now a main attraction, on permanent display at the Natural History Museum of London. "Sarah" has been renamed "Sophie," recognizing the daughter of a major benefactor who donated funds for the purchase of this magnificent specimen.

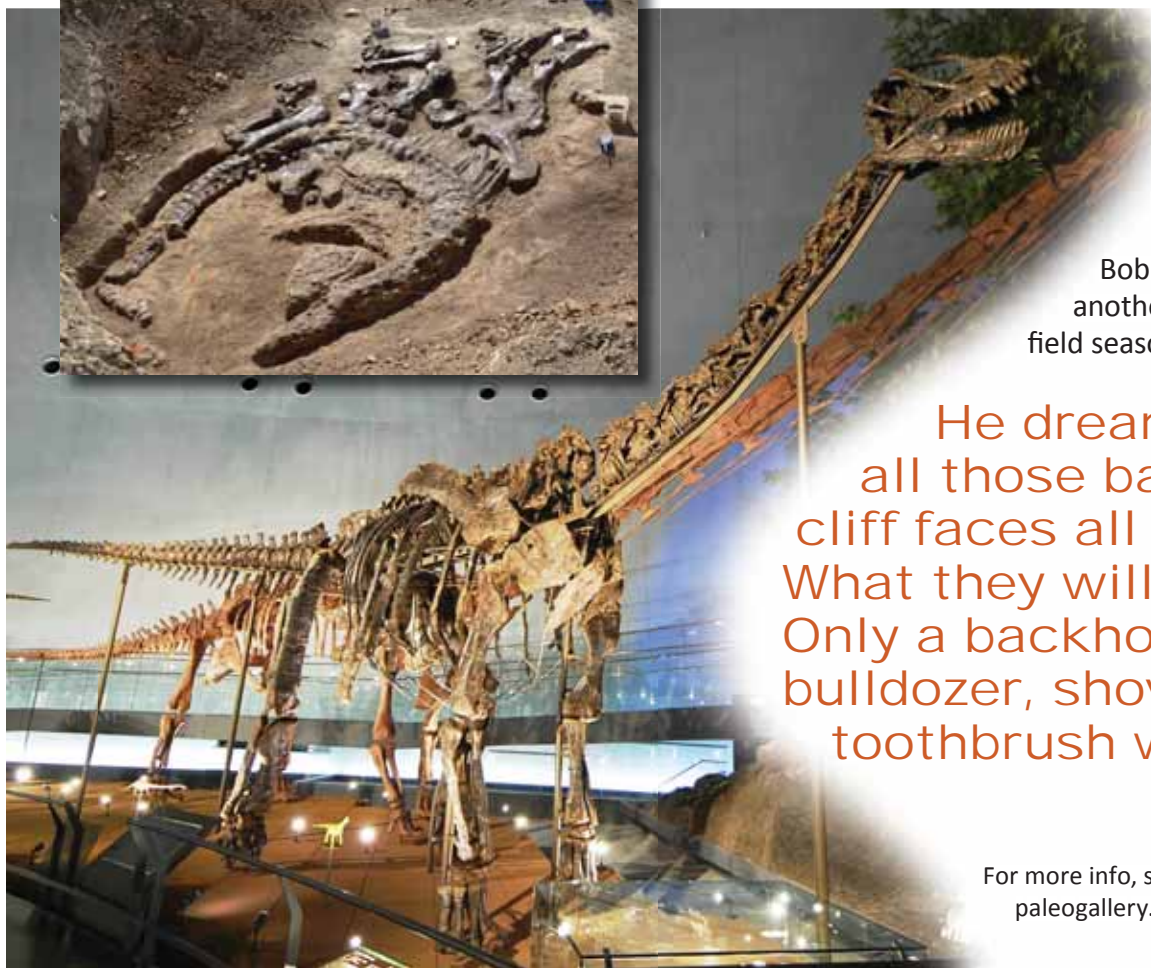


***View of the Triassic Chugwater formation, from the ranch quarters.
This outcrop is a marine sandstone totally devoid of fossils.***

During the summer of 2007 Bob would hit pay dirt once again with a major adult *Camarasaurus* find. The *Camarasaurus* was featured on national television and many newspapers across the country. It is easy to see why, with a 95 percent complete skeleton found in the classic death pose. The *Camarasaurus* may have drowned or died from natural causes, and floated onto a sand bar during a high energy flooding event. With body decay the neck and tail constrict, arching towards each other. The skull was detached and found close by. There was no evidence of scavenging from large meat eating dinosaurs like *Allosaurus* suggesting that the area was isolated. The *Camarasaurus* skeleton is now on permanent display at the Fukui Prefectural Dinosaur Museum in Japan. In addition to the standing display that incorporates all original dinosaur bone (no casts), the museum constructed a life-size representation of the dinosaur as it was positioned in the ground at the dig site.



Bob with the Camarasaurus



Bob looks forward to another hot, but challenging, field season this year.

He dreams about all those badlands cliff faces all winter. What they will unearth? Only a backhoe, bulldozer, shovel and a toothbrush will know.

For more info, see paleogallery.com/bob-simon

Bob's treasure on display at the Fukui Prefectural Dinosaur Museum in Japan



75•50•25 YEAR MEMBERS

75 YEARS:

Lawrence B. Eustis.....	1940
50 YEARS:	
Donald I. Andrews.....	1955
Leo R. Bader Jr.	1960
R. H. Baillio Jr.	1963
H. Warren Bell	1956
Robert E. Bell	1966
Burton C. Bowen	1956
Robert B. Branson.....	1966
Jack G. Bryant	1964
F. Robert Bussey.....	1954
Carlo C. Christina	1955
James S. Classen	1964
Eugene E. Cobb	1960
Richard P. Colomes.....	1959
Willis E. Conatser PhD.....	1959
Charles J. Corona	1966
Robert M. Danos	1955
John H. Dekker.....	1956
M. R. "Bob" Douglass	1958
Dwight Easterly.....	1962
John M. Ewing.....	1957
Floyd H. Furr	1964
Robert L. Glasgow	1959
Duncan Goldthwaite.....	1964
Peter G. Gray.....	1957
Charles E. Griffin.....	1955
James A. Hartman	1959
William H. Hintze.....	1962
Paul Jurik.....	1964
Carl B. Kinell.....	1966
James R. Landrem	1965
E. J. Langhette Jr.....	1949
Louis Lemarie'.....	1956
Roland D. Liberda.....	1958
Michael G. Mackenzie	1964
George M. Markey Jr.....	1957
Roman Matranga.....	1965
Samuel P. Miano.....	1963
James R. Moffett.....	1961
Russell H. Nordwell.....	1960
Edward B. Picou Jr.	1960
George W. Schneider Jr.	1960
Warren L. Seal	1957
John D. Silvernail.....	1955
Daniel L. Smith	1964
David Sollenberger Jr.	1957
Robert K. Sylvester.....	1957
Leon G. Touns.....	1958
Albert J. Trepagnier.....	1966
Raymond G. Voelker.....	1955
Roy C. Walther	1962
James W. Yeldell Jr.....	1960

25 YEARS:

Woods W. Allen Jr.....	1977
Michael B. Anderson.....	1976
Robert J. Ardell.....	1968
Carol Avery	1989
Kenneth D. Backsen	1976
Bruce J. Bahlinger	1981
Alfred H. Baker Jr.	1975
David E. Balcer	1980
Kirk A. Barrell.....	1986
Robert B. Bass Jr.	1978
Luis J. Batista.....	1987
Christopher Baynas.....	1977
Michel J. Bechtel.....	1970
Allen E. Berlin	1979
James Vincent Bikun.....	1991
Peter W. Bilinski	1980
Maurice N. Birdwell	1970
Larry Boudreau	1983
David P. Broadbridge.....	1981
Eric C. Broadbridge.....	1983
Bradley R. Broekstra.....	1978
Hilary James Brook.....	1982
Andre' Broussard.....	1991
Albert P. Brown Jr.....	1989
R. Stephanie Bruno.....	1976
Rob Burnett.....	1984
Joe W. Burns.....	1967
J. Sybil Callaway.....	1985
Kevin M. Carney.....	1974
Anthony Carollo Jr.....	1991
David Carpenter	1973
Anthony Catalanotto.....	1983
Arthur T. Cerniglia.....	1975
Arthur F. Christensen	1970
Joseph E. Christensen	1967
David W. Cooke.....	1978
J. David Cope.....	1990
Dale Coulthard	1976
Doug Cristina	1983
William "Woody" Dahl.....	1984
Daryl A. Danielson Jr.....	1987
Larry Daugherty.....	1980
Thomas D. De Brock.....	1983
Jim Deister.....	1975
Marcel DiGiovanni Jr.....	1991
John R. Dribus.....	1983
Mike Duhon.....	1980
J. Royce Dunn	1967
Merle J. Duplantis.....	1975
Phil Dupler.....	1970
Jerrald S. Durtsche	1974
Hank E. Ecroyd	1977
Bruce Elijah.....	1972

Michael C. Fauquier.....	1977	Richard A. Olsen	1971
Michael N. Fein	1975	Jeffrey J. Palmer	1983
Steven P. Flaten	1980	Gray S. Parker	1988
Michael A. Fogarty.....	1977	Calvin A. Parker	1970
Allen W. Fontenot.....	1989	James L. Pear	1981
Brent J. Foster	1976	William S. Peirce.....	1976
William J. Furlong.....	1978	Jeanne S. F. Phelps.....	1979
Mark J. Gallagher	1980	Reese B. Pinney	1984
Larry Galloway.....	1985	Albert F. Porretto.....	1980
William E. Geen Jr.	1978	Leon R. Prout.....	1971
Robert G. Gerdes.....	1985	Richard D. Provensal.....	1982
Mark G. Glazner.....	1986	Bernard Regel.....	1980
Phillip G. Gregory.....	1981	Thomas M. Reilly	1977
Emmett C. Guderian Jr.	1971	Brenda E. Reilly.....	1984
Robert O. Hafner.....	1982	David E. Reiter.....	1989
Kathleen S. Haggard.....	1975	George H. Rhoads.....	1976
Bret Hampton	1985	Michael J. Roberts	1985
John P. Harlan.....	1977	Luther Franklin Rogers Jr. ..	1973
William H. Hart	1981	Maurice "Rip" Rouen	1974
William D. Haworth	1980	Leigh Anne Salathe.....	1980
Karl S. Hebert.....	1978	John C. Scheldt.....	1977
Paul S. Horvath.....	1975	George D. Severson.....	1968
Kenneth Huffman	1977	Monte C. Shalett.....	1978
Jeff Jandegian	1977	Lynn C. Shannon.....	1968
Thomas E. Johnson	1970	Russell C. Smith.....	1976
Arthur H. Johnson.....	1977	Michael Wm. Smith.....	1988
John B. Karpas III.....	1976	J. O. Snowden	1969
Everett J. Kastler	1972	Jeff A. Spencer	1980
Tom Klekamp.....	1971	Scott Spradley.....	1982
Tim Klibert.....	1981	Gary L. Spraul	1974
Roger J. Kocken.....	1991	Richard J. Stancliffe.....	1984
Barry Kohl PhD.....	1988	Bryan P. Stephens.....	1988
Michael M. Ledet.....	1980	Jackie D. Stewart.....	1985
Roger D. Linder.....	1970	Stephen M. Strachan	1977
Cyril F. Lobo	1986	Candace V. Strahan.....	1981
John A. Lopez.....	1988	Mark T. Sunwall	1985
Bobby Gene Lovelace.....	1971	James Swaney Jr.....	1970
Allen Lowrie.....	1977	Al Taylor	1982
Henry C. Magee	1973	Jack M. Thorson.....	1984
David A. Marin.....	1981	John Traub	1990
Robert C. Marshall.....	1991	Larry E. Tucker.....	1967
Jeffrey G. Martin	1988	Thomas A. Tucker CPG.....	1975
Thomas T. Mather.....	1973	Lloyd Tuttle.....	1988
John H. McCandless.....	1970	Norman S. Vallette.....	1981
Elizabeth C. McDade	1991	James H. Vance Jr.	1984
Kevin J. McMichael.....	1978	Scott A. Wainwright.....	1980
Kevin McVey.....	1979	Arthur S. Waterman	1975
Paul C. McWilliams.....	1979	Susan A. Waters	1985
Allan J. Melillo PhD.....	1986	Thomas H. Watson.....	1983
Karen Menge	1985	Ken D. Webb.....	1981
William M. Mitchell.....	1969	Glen A. Weber.....	1978
William C. Moody Jr.....	1973	Richard F. Wells	1980
Ronald W. Morin.....	1989	William M. Whiting.....	1969
Stephen T. Mumme	1979	Louis Willhoit	1988
Robert G. Murphy.....	1975	Frances A. Wiseman	1975
C. H. Murrish.....	1968	Robert B. Witrock.....	1979
Steven P. Nagel.....	1981	Jim Zotkiewicz.....	1983

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8:30 am to 3:30 pm

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WHAT YOU WILL LEARN:

- Introduction to Basic Geology
- Review of how oil and gas are formed,
- How oil and gas are concentrated in reservoirs
- Geological and geophysical methods used in exploration
- Review of drilling and completion practices

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- Anyone who works with geologists and geological data
- Secretaries
- Landmen and land personnel
- Lease analysts
- Attorneys and Paralegals
- Draftsmen
- Engineers
- Technicians
- IT people, programmers and processors



YOUR INSTRUCTORS AND FACILITATORS:

Duncan Goldthwaite, consulting geologist

Bill Haworth, Chevron (retired)

Bruce Robertson, consulting geologist and geology professor, University of Southern Mississippi

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1. PayPal using the NOGS Website www.nogs.org Payment Center. Scroll down to NOGS Special Events. Payments for multiple attendees can be made, and should be listed under the Instructions to Merchant section.
2. By check for \$35.00, payable to the New Orleans Geological Society and mailed to: New Orleans Geological Society, 810 Union St., Ste. 300, New Orleans LA 70112

When registering, please give your name, work or home mailing address, e-mail, telephone number and company affiliation, if any.



The combined profit from this event
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Children's Museum Initiative
on the north and south shores.

This year NOGS and PLANO are joining forces for the
2016 Annual Golf Tournament

Please register early! We are limited to only 120 players.

Money Hill Golf and Country Club
Abita Springs, LA
Monday, April 25th

Format: 4-person scramble
with shotgun start at High Noon.

**Post tournament dinner sponsored by
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Registration opens at 10:00 a.m.
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Price includes green fees, cart, range balls, food & drinks, flight, and prizes.
What else could you possibly ask for?

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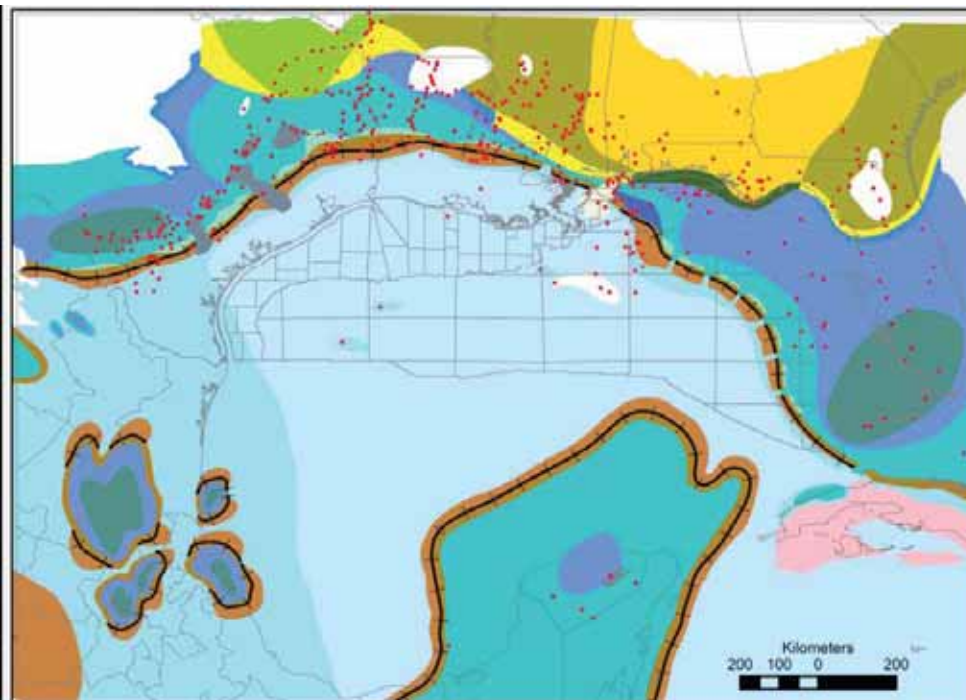
\$140/individual • \$650/corporate • Hole sponsors are \$125

We need volunteers!

If you can help out, you will be treated to a day of fun, food, and be eligible for some door prizes.

Donations of any kind are welcome!

TOURNAMENT REGISTRATION APPLICATION ON FOLLOWING PAGE



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New Progress in the Science and Exploration of the
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South Louisiana and Offshore Gulf of Mexico Exploration and Production Activities

LAFAYETTE DISTRICT, ONSHORE AREA

By Carlo C. Christina

During the month of February, 12 permits to drill were issued by the Office of Conservation, Lafayette District, Onshore Area. Following are the most significant locations and completions:

BAD NEWS...GOOD NEWS...WHAT CAN WE DO ABOUT IT??

Have you read all the doom and gloom reports about the oil and gas business?

BAD NEWS

- Total rig count for the United States is 619, down 924 rigs from 1 year ago.
- Only 6 rigs are running in South Louisiana.
- The price of oil hit a low of \$28 a barrel last month, the lowest in 13 years years.
- Massive layoffs announced throughout the industry.

GOOD NEWS

- The cost of drilling and completing wells is down 35% to 40%.
- The price of oil today is \$40, an increase of 40% during the past month.

This is not the first time we have witnessed a downturn in the oil and gas business. During my 61 years as a working geologist, I have seen several cycles of fluctuating prices. In May 2008 the price of oil reached \$143 a barrel, and within 6 months it had dropped to \$33 a barrel. Within 2 years it recovered to \$100 a barrel, where it remained for the following 4 years.

The problem is we do not know when we will recover from this down time. What should we do during this down period to prepare for the next “turnaround?”

I contacted 3 friends, prominent and successful geologists, to answer these questions for me. My questions were:

1. What are you doing during this down period to be ready for the return of “good” oil prices?
2. What do you think the price of oil must be to trigger a turnaround--\$40, \$50, \$60 a barrel?
3. When do you think these prices might return, —2 months, 6 months—18 months—36 months or more.

Jack Thorson, President of Northcoast Oil Company replied. (*My edited version follows.*)

1. Keep generating prospects. Be ready when oil reaches \$55 and gas is \$3. These were good prices except for the past few years. (Maybe we were spoiled.)
2. Reprocess your 10-year old 3D surveys and ask your processor to charge you one half the costs now and the other half when

you sell the deal. Usually the geologist is asked to reduce the override. Now is the time for all to work together.

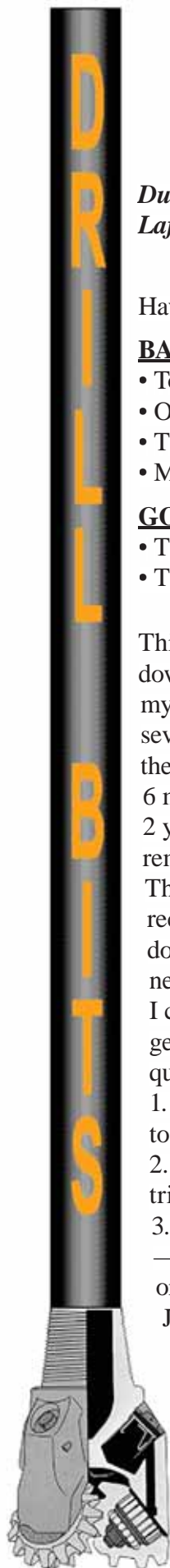
3. If there are rentals or lease renewals coming up talk to the landowner to negotiate on the rental, or a no-cost extension of the expiring lease. The landowners know we are hurting and they certainly want to see a well drilled. Again, it's time for all to work together.

4. We know that shale production is slowing down and the weekly U.S. oil production has declined, so perhaps we may see our target price of \$55 or \$60 a barrel by the end of this year. What do you think???

NEW LOCATIONS

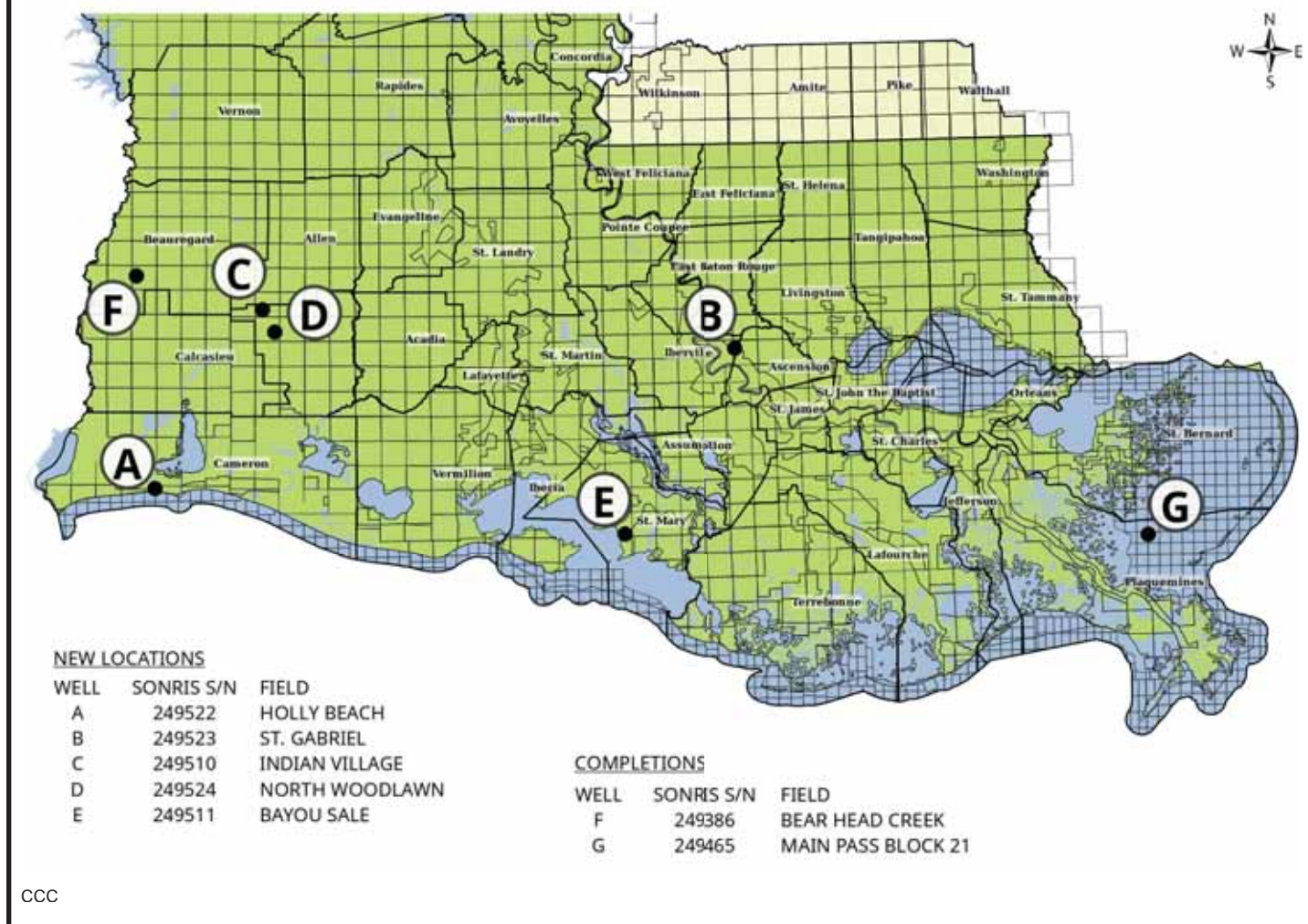
Mertz Energy will drill the #1 Constance (SN 249522) in **Holly Beach Field**, (A), Cameron Parish. It will be drilled in Sec. 36, 14S-11W to 11,500 feet to test a Planulina sand which was productive in an offsetting well, SN 70038, at 11,000 feet. The well produced from a sand having 30 feet of net gas, and produced from 1958 until 1962. There is no current production within 2 miles of the new location.

In Iberville Parish, **St. Gabriel Field**, (B), Branta Lago LLC has permitted the #1 OAC (SN 249523) in Sec. 1, 9S-1E to be drilled to 14,000 feet. The well is located 1½ miles north of nearest production.



SOUTH LOUISIANA ACTIVITY MAP

APRIL 2016



Shoreline Southeast is drilling the #1 Quatre Mineral (SN 249510) in **Indian Village Field**, (C), Jefferson Davis Parish, to test Hackberry sands. The well is at a depth of 9099 feet with 7 inch casing set at 8522 feet. The well is located in Sec. 23, 7S-6W with a proposed total depth of 9413 feet.

Also in Jefferson Davis Parish, Shoreline Southeast will drill its #1 Coushatta Tribe (SN 249524) in **North Woodlawn Field**, (D). It will be drilled to a depth of 11,500 feet to test Hackberry sands in Sec. 24, 8S-6W.

In St. Mary Parish, **Bayou Sale Field**, (E), Energy Quest II will drill the #62 SL 329 (SN 249511) in Sec. 11, 17S-9E to a depth of 12,150 feet.

Bayou Sale is an old field, discovered in 1941, with more than 520 wells drilled in the field. The field has produced more than 27 million barrels of oil and 596 billion cubic feet of gas since 1977. Most importantly,

oil production last year was greater than any year since 1993 because of aggressive drilling programs by Energy Quest and Shoreline Southeast.

COMPLETIONS

In Beauregard Parish, **Bear Head Creek Field**, (F), Warhorse Oil & Gas has completed its #1 Olympia Minerals (SN 249386) as a good oil well flowing 288 BOPD and 500 MCFD through perforations 8410 to 8418 feet in a Cockfield sand. The well was drilled in Sec. 17, 6S-11W, 1 mile northeast of recent production in the field.

Mack Energy has plugged and abandoned its #1 SL 21379, (SN 249465), in **Main Pass Block 21 Field**, (G), at a depth of 10,091 feet. The well was drilled 1.6 miles west of production in Breton Sound Block 32 Field.

OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES

by Al Baker

During **February 2016**, the **BOEM** approved **66** Gulf of Mexico drilling permits. Of these, **3** were for shelf wells, and **63** were for deepwater wells. Of the total number of permits, there were **7 new well permits** issued consisting of **1 shelf** permit and **6 deepwater** permits.

The single shelf new well permit was issued to **Arena Offshore** for their **South Timbalier 130 #K-7** development well.

The six new deepwater well permits included **2** exploration wells and **4** development wells. The two exploration new well permits were awarded to **Chevron U.S.A.** for their **Green Canyon 640 #PS-10** well and to **Stone Energy** for their **Alaminos Canyon 943 #1** well.

The four development new well permits were issued to **Shell Offshore** for their **Alaminos Canyon 815 #SA-4** well, to **Hess Corporation** for their **Garden Banks 215 #10** well, to **ExxonMobil** for their **Walker Ridge 584 #JV-104** well and to **BP Exploration & Production** for their **Mississippi Canyon 822 #12** well.

On February 19th, **IHS-Petrodata** reported that the Gulf of Mexico mobile offshore rig supply stood at **123**, which is **1** less than reported last month. The marketed rig supply consisted of **72** rigs, of which **48** were under contract. The marketed contracted versus

total rig supply utilization rate is **39.0%**, while the marketed contracted versus marketed supply utilization rate stands at **66.7%**. The marketed rig supply number is **1** less than reported last month, and the contracted rig supply number is also **1** less than reported last month. In contrast, the February 2015 fleet utilization rate stood at 53.3% with 64 out of the 120 rigs under contract.

On February 26th, **BakerHughes** indicated that there were **27** active mobile offshore rigs in the Gulf of Mexico, which is **56.3%** of the rigs under contract mentioned above. This active rigs number is **1** less than reported last month. The current active rigs count compares to 51 active rigs during the same period last year, representing a **47.1%** drop (minus 24 rigs) in yearly rig activity.

As of February 26th, the **BakerHughes** total U.S. rig count stood at **602** rigs. Of the 602 rigs, **400** were **oil rigs**, which is the **lowest number since December 2009**. The remaining **102** rigs are **gas rigs**, which is the **lowest number in the BakerHughes dataset that extends back to 1987**.

Unfortunately for this column, no significant offshore discovery news was announced during February 2016 albeit a short month. Rather, the trade journals have been chocked with articles reporting 4th quarter industry losses, employee layoffs, business bankruptcies, drop in business credit ratings, \$26.19 oil on February 11th, etc. Perhaps, college basketball's March Madness will have offered to some readers more newsworthy results plus exciting gamesmanship to discuss around the water cooler.



Submitted by Laura Sorey

Neel Fallis rejoins NOGS as an active member. Neel is independent engineer. He earned his Bachelor's in Mechanical Engineering from the Georgia Institute of Technology in 1978 and an MBA in Finance from UNO in 1995. He is a La. P.E. Licensee. Neel and his wife Debbie reside in New Orleans. Welcome Neel!

NOGS Welcomes **Cina Poyer**. Cina has been a geologist for the Bureau of Ocean Energy Management (BOEM) in New Orleans for the past eight years and currently is a regional geologist in the Regional Framework Unit. Cina is from El Paso and received a BS in Geology from the University of Texas at El Paso, and MS in Geology from Oklahoma State University. Her past experience includes 15 years in the Permian Basin (Midland, TX) as a seismic processor/regional mapper for several seismic data brokers and as a regional explorationist for Enserch Exploration and Enron. She also worked as an environmental geologist for the Kansas Department of Health & Environment for 12 years; the last seven years with the "Underground Storage of Hydrocarbons in Salt Caverns" program.

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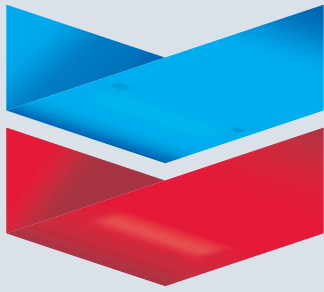
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A Seismic Detective Story

When I began working as Music Director at Ripley, Ohio First Presbyterian Church in 2003, I had no idea that geology would solve a legendary mystery surrounding its pipe organ. As you can see from the photo, the organ is probably the most striking feature in the otherwise plainly Calvinistic sanctuary. The congregation told me that it was built in 1885 by Augustus B. Felgemaker of Erie, PA. They told that nothing has been modernized on this organ save for an electric blower to supply the wind. In 1885, that would have required a human to pump the organ. And they pointed out that the organ didn't exactly fit the space in front of the sanctuary because it was not built for this church but for a church "in Charleston."

As the story goes, this pipe organ was on a flatboat on the Ohio River to be delivered to that church when the boat captain got word that the church no longer wanted the organ. And, as he happened to be near Ripley, he docked and asked if anyone in the village wanted to purchase this organ, which the Presbyterians did for the sum of \$1500.

After hearing this story, I had a million questions: which Charleston? West Virginia? South Carolina? Why didn't the church want the organ? Who wouldn't want this organ! But all I got was the old mechanic's shrug and an "I dunno." Well, lost in the sands of time, I thought.

Then about six years later I was perusing an issue of *Earth* magazine which featured an article about increased risk assessment for earthquake potential east of the Mississippi River. An on the map was a huge bullseye over New Madrid, MO with the date 1811 and also over Charleston, SC, with the date August 31, 1886. It all came together faster than you could say seismic shock wave. The reason I play this organ every Sunday is an earthquake which damaged the church in Charleston, SC, so badly that they were unable to accept the organ.

Following that lead, I headed off to the public library in Ripley to look through whatever newspapers they had from 1886 to see if I could verify my theory. Sure enough, there were a number of stories about the Charleston earthquake (pre-Richter scale, but judged to rival the 1906 San Francisco quake) and how it was said to have caused church bells in Louisville and Detroit to ring. And there were a few stories about the Presbyterians and their purchase of a pipe organ. It was installed



in the fall of 1886 and a Professor McKenzie from Cincinnati came to play the inaugural recital in November 1996. So, 129 years later, I think it's appropriate that a geologist gets to play this wonderful instrument which the church acquired through the "fault" of a geologic event.

And what about the church in Charleston? Well, they did get a Felgemaker pipe organ in 1887 according to the online database of the Organ Historical Society. The church was First Scots Presbyterian Church will still stands on Meeting St. in Charleston. Sadly, the organ was lost in a chancel fire in 1945.

Notes:

Linda Fulton, and her late husband Ken were geologists with Exxon here in New Orleans and later in Houston. Linda holds a Bachelor's in the Classics from Hope College, Michigan; a Master's in Geology from the University of Illinois at Champagne-Urbana; and a Ph.D. in Geology from the University of Cincinnati, under Paul Edwin Potter. Following Exxon, she earned a Bachelor of Music from the University of Houston's Moores School of Music, specializing in organ and piano. She is an active member of the Organ Historical Society, and an avid geologist.

There is one Felgemaker organ in New Orleans at the Coliseum Place Baptist Church, 1376 Camp Street. More at <http://database.organsociety.org/SingleOrganDetails.php?OrganID=57559>

You can enjoy Linda perform for the Organ Historical Society on the Felgemaker at the Ripley First Presbyterian Church at <https://www.youtube.com/watch?v=icVF7ykeXoA>

This article was excerpted from the University of Cincinnati Dept. of Geology alumni magazine, *The Upper Crust*, 2015, Dr. Warren Huff, editor.



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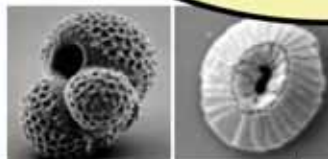
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