

Volume 58

No. 6

February 2010

# MISSISSIPPI GEOLOGICAL SOCIETY *eBulletin*



[missgeo.com](http://missgeo.com)

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AAPG	Rick L. Ericksen	Board of Reg. Prof. Geologists	(601) 354-6370
AAPG	Maurice Birdwell	Independent	(601) 936-6939
GCAGS	Danny Harrelson	U.S. Army Engineers R&D Center	(601) 634-2685

## ***Other***

Environmental Section	Ken Ruckstuhl	Environmental Mgt. Serv.	(601) 992-8233
Historian	Stanley King	Independent	(601) 842-3539

# PRESIDENT'S LETTER

*Joe Johnson*

Fellow Members:

At our January luncheon Rick Kear with Schlumberger gave an excellent presentation on the geologic applications of Formation Micro Imaging logs. His knowledge of Gulf Coast geology and his interpretation skills with FMI logs was impressive. It is hard not to learn something new when talking with Rick. Thanks for taking the time to share your experiences with the society.

Due to the conflict with NAPE in Houston the February luncheon has been canceled.

We will pick up in March with the Boland Scholarship Awards. I know Dave Cate is working diligently to find some deserving Mississippi students for this year's awards and we thank him for his ongoing efforts.

Just a reminder that the 2010 AAPG annual convention will be held in New Orleans on April 11-14. I hope many of you will show up and support this effort since it is so close to home. AAPG is also offering some excellent short courses in tandem with the convention.

In the bulletin is a very interesting article titled "The World's Biggest Oil Reserves". It is amazing to see that Iraq has such incredible exploitation/exploration potential remaining.

Hope to see you at the March luncheon and/or NAPE.

Joe



## **In This Issue:**

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**Members in good standing.**

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MGS Boland Scholarship**

**Fund**

**MGS Honorary Members**

**Touching Elephant story**

## MGS MEETING SCHEDULE

When	What/Who	Where
September 10, 2009	Fall BBQ	Jackson Yacht Club
October 8, 2009	Dan Buller—Petrophysical Evaluation of the Haynesville Shale in NE Texas and NW Louisiana	River Hills
November 12, 2009	Gregory J. Zerrahn —North Monroeville Field Monroe County, Alabama	River Hills
December 5, 2009	Christmas Party and Dance	Colonial Country Club
January 14, 2010	Rick Kear—Wireline Borehole Imaging & Interpretation Basics	River Hills
February, 2010	<b>NO MEETING</b>	
March 11, 2010	Boland Awards	River Hills
April 8, 2010	TBA	River Hills
May 13, 2009	Spring Fling	Jackson Yacht Club

***Margaret Thatcher: "The trouble with Socialism is, sooner or later you run out of other people's money."***

***"When you subsidize poverty and failure, you get more of both." - James Dale Davidson, National Taxpayers Union***

***"A Liberal is a person who will give away everything he doesn't own." - Unknown***

### OFFICERS MEETINGS

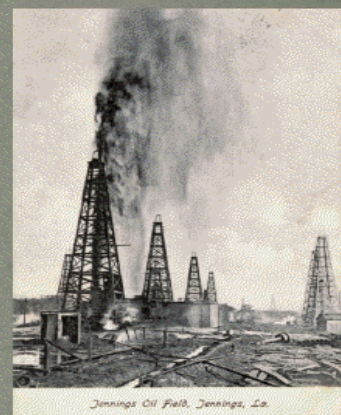
August 11, 2009
September 1, 2009
October 6, 2009
November 3, 2009
December 1, 2009
January 5, 2010
February 2, 2010
March 2, 2010
April 6, 2010
May 4, 2010

# 2010 OIL HISTORY SYMPOSIUM



**April 29<sup>th</sup> - May 1<sup>st</sup>  
Lafayette, Louisiana**

Co-sponsors:  
Petroleum History Institute  
Lafayette Geological Society



**CALL FOR ABSTRACTS  
Oral Presentations and Posters**

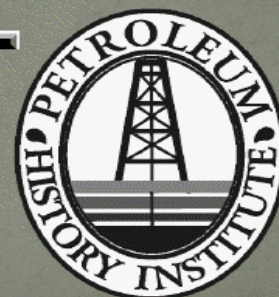


**Fieldtrips to: Jennings, LA;  
Texas Energy Museum; &  
Spindletop/Gladys City**

**Oil history Authors & Book Signings**

**For more information:**

**[www.petroleumhistory.org](http://www.petroleumhistory.org)**



**The Petroleum History Institute 2010 Oil Symposium & Field Trip  
April 29<sup>th</sup> - May 1<sup>st</sup>, 2010 – Lafayette, Louisiana  
*Migration to the Gulf Coast and Beyond***

**Co-sponsored by the Lafayette Geological Society**

**Symposium Headquarters: Lafayette Hilton Hotel, 1521 West Pinhook Road**

**Symposium co-chairs: Jeff Spencer, [jspencer@blackpoolenergy.com](mailto:jspencer@blackpoolenergy.com) (832) 379-1703  
King Munson, [kingmunson@gmail.com](mailto:kingmunson@gmail.com) (337) 456-5730**

**Coordinator of Paper/Presentations: Dr. William Brice [wbrice@pitt.edu](mailto:wbrice@pitt.edu) (814) 269-3950  
116 Luna Lane, Johnstown, PA 15904**

## **Symposium Schedule**

### **Thursday, April 29<sup>th</sup>, 2010**

**Early arrivals**

**A local tour - TBA**

**3 pm – 8 pm**

**Registration opens – Lafayette Hilton**

**6 pm – 7 pm**

**Icebreaker/Opening Reception – Lafayette Hilton  
Vermilion Ballroom  
Participants are on their own for dinner.**

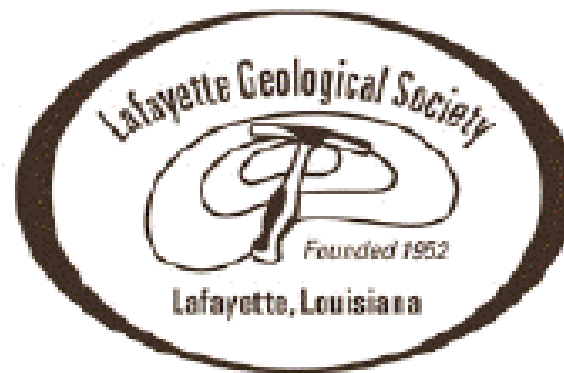
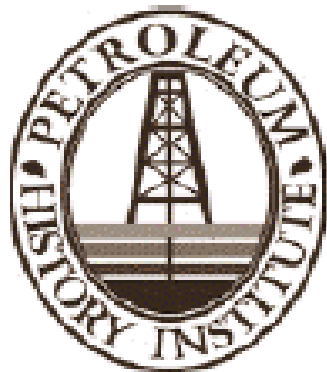
## Friday, April 30<sup>th</sup>, 2010

- 7:30 am – 11:30 am Registration open – Lafayette Hilton  
Poster Display set-up. Posters remain up all day.
- 7:30 am Continental breakfast – Lafayette Hilton
- 8:15 am Technical Session – Lafayette Hilton – Salon A
- 12:30 pm Luncheon Buffet – Lafayette Hilton. Keynote speakers:  
Fred McKinley and Greg Riley. Topic: their book,  
“Black Gold to Bluegrass”
- 2:00 pm – 5:30 pm Technical Session – continued (Salon A)
- 5:30 pm - 6:00 Author book signings – Salon A
- 7:00 pm Awards Banquet – entertainment by (TBA)  
Vermilion Ballroom

## Saturday, May 1<sup>st</sup>, 2010

- Breakfast – on your own
- 8:00 am - ? Fieldtrip to Jennings oil field, Texas Energy Museum, and  
Spindletop/Gladys City. **BUS LEAVES AT 8:00!**  
Guidebook, snacks, drinks, box lunches, and museum  
fees provided/covered.  
( [www.spindletop.org/info/index](http://www.spindletop.org/info/index))  
([www.texasenergymuseum.org/default.asp](http://www.texasenergymuseum.org/default.asp))
- 7:00 pm Farewell Dinner w/entertainment by (TBA)  
Lafayette Petroleum Club, 111 Heymann Blvd.  
([www.pclafayette.com](http://www.pclafayette.com))

NOTE: entertainment for the two dinners TBA. Plans are underway for one of the dinners to include some Cajun music.



## **2010 OIL HISTORY SYMPOSIUM**

Lafayette, Louisiana – April 29-May 1<sup>st</sup>.

Co-sponsored by the Lafayette Geological Society  
and the Petroleum History Institute

### **Sponsorship Form**

**Note:** sponsor names & logos and/or business card will be included in the Symposium Program Book and on a poster that will be displayed in the Symposium meeting room.

Bronze Sponsor.....\$100.00  
Silver Sponsor.....\$250.00  
Gold Sponsor.....\$500.00  
Platinum Sponsor..... \$1000.00

Sponsors may also choose to host or co-host a symposium event, such as the Thursday evening icebreaker/reception, the Saturday fieldtrip (\$2.00 per person museum fee and/or \$100.00 for the Gladys City gusher to be set off with water!), speaker appreciation gifts, guidebook, or one of the meals. Contact one of the co-chairman for more information.

Name:

Company Name:

Address:

City:

State:

Zip code:

Sponsorship Level:

E-mail address and/or fax:

Mail to: 2010 Oil History Symposium  
c/o Lafayette Geological Society  
PO Box 51896  
Lafayette, Louisiana 70505

Checks payable to: Petroleum History Institute

Contacts: Jeff Spencer 832-379-1703 [jspencer@blackpoolenergy.com](mailto:jspencer@blackpoolenergy.com)  
King Munson 337-456-5730 [kingmunson@gmail.com](mailto:kingmunson@gmail.com)

**The Petroleum History Institute 2010 Symposium**  
**April 29<sup>th</sup> – May 1<sup>st</sup>, 2010 - Lafayette, LA**  
**Co-sponsored by the Lafayette Geological Society**  
*Migration to the Gulf Coast – 1901 and Beyond*

**SYMPOSIUM REGISTRATION FORM**

<b>Name</b>	<b>Affiliation</b>		
<b>Street</b>	<b>City</b>	<b>State</b>	<b>Zip</b>
<b>Telephone</b>	<b>Email</b>		
<b>Spouse Name (if attending)</b>		<b>Special Needs: (examples – dietary, mobility, etc.)</b>	
PHI Member: <input type="checkbox"/> Yes <input type="checkbox"/> No		LGS Member: <input type="checkbox"/> Yes <input type="checkbox"/> No	

**REGISTRATION FEES**

Full registration for the complete symposium covers all technical sessions, social events and the fieldtrip, including the program with abstracts booklet, field guidebook, one breakfast, lunches, reception, awards banquet, and farewell dinner, as well as information packets. *Please register by April 15, 2010*

- PHI or LGS Member ..... \$ 275. (early fee: \$250 if received by March 15<sup>th</sup>)
- PHI Corporate Member ..... \$ 250. (early fee: \$225 if received by March 15<sup>th</sup>)
- Student ..... \$ 150. (early fee: \$125 if received by March 15<sup>th</sup>)  
*Member of PHI or UL-Lafayette geology student*
- Non-Member of PHI/LGS ..... \$ 315. (early fee: \$290 if received by March 15<sup>th</sup>)  
*(includes 2010 membership)*
- Spouse of PHI Member ..... \$ 175 (early fee: \$150 if received by March 15<sup>th</sup>)

- ONLY Friday, April 30, 2010 ..... \$ 150.  
*(includes breakfast, lunch w/keynote speaker, full day of technical presentations, program, & awards banquet)*
- ONLY Awards Banquet, evening of Friday, April 30, 2010 ..... \$ 50.
- ONLY Fieldtrip to Spindletop – Sat., May 1st ..... \$ 60.  
*(includes bus, box lunch, guidebook & museum fees)*

\_\_\_\_\_ Total Registration Fee Enclosed  
*Make check payable to "Petroleum History Institute"*  
 (sorry, no credit cards for registration fees)

Please Return Completed Form and Check to:  
 Petroleum History Institute  
 P. O. Box 165  
 Oil City, PA 16301-0165

**Sponsorship opportunities available**

Contact Symposium Chair, Jeff Spencer with questions:  
[jspencer@blackpoolenergy.com](mailto:jspencer@blackpoolenergy.com); (832) 379-1703

For master schedule visit [www.petroleumhistory.org](http://www.petroleumhistory.org)

**LODGING**

Please make your lodging reservations directly with your hotel of choice. Symposium headquarters is the **Lafayette Hilton Hotel**, 1521 West Pinhook Road, Lafayette, Louisiana 70503. (800) 445-8667; two double bed rate is \$119/night; one king bed rate is \$129.00/night. Room reservations need to be made by April 8, 2009. A block of 25 rooms are being held for 4/29, 4/30, & 5/1 under the Petroleum History Institute – mention when making your reservations.



Interested in joining the AAPG or becoming certified?

The AAPG is the premier organization of the geosciences. It's roots are in the oil and gas industry and it continues to be an organization dedicated to the energy industry. Ernie Mancini, University of Alabama, who has close ties to the Mississippi Geological Society, is a current candidate for president of the AAPG. The Division of Professional Affairs is the certification arm of the AAPG. Members are certified as a Petroleum Geologist or Geophysicist or as a Board Certified Geologist or Geophysicist. If you would like to join the AAPG or become certified, contact either Rick Ericksen at 601-354-6370, e-mail= [geology@msbrpg.state.ms.us](mailto:geology@msbrpg.state.ms.us) or Maurice Birdwell at 601-936-6936, e-mail= [mnbirdwell@comcast.net](mailto:mnbirdwell@comcast.net).



**-- CALL FOR PAPERS --**

**60<sup>th</sup> Annual Convention**

**October 10-12, 2010**

**San Antonio, Texas**

*Hosted by the South Texas Geological Society!*



Welcome back to San Antonio! Our theme this year is "Weathering the Cycles" – a challenge that resource geologists have faced and overcome in the past. How do we weather the economic cycles? We...

- ✓ Network with our community
- ✓ Experience the latest technology in the technical exhibition
- ✓ Take a course or a trip and grow new and diverse skills
- ✓ Listen to special presentations on strategies to endure and prosper during an economic downtime and prepare for the inevitable rebound.

By celebrating our successes, facing our challenges, and learning from the research results of our peers, we are paid back many fold by sharing ideas and experiences among our professional community. So come and share your experiences! Suggest a session topic, present an oral paper or a poster, learn about the latest ideas and technologies in our field. Come to San Antonio and enjoy the Gulf's own geoscience convention!

**PROPOSED TECHNICAL SESSIONS INCLUDE...**

- ✓ **Organic 'Shales' of the Gulf Coast** – Controls on Reservoir Quality and Producibility
- ✓ **Gulf of Mexico Paleogene** – Reservoirs, Events and Controversies
- ✓ **Eastern Gulf of Mexico** – Exploration Potential and Environmental Challenges
- ✓ **Texas/Mexico Borderlands** – Structures, Hydrocarbons, and Lessons Learned
- ✓ **Unconventional Resources** – Exploration Decisions and Production Issues
- ✓ **Integration of Seismic Geomorphology and Wellbore Data** - Case Studies
- ✓ **New and Evolving Technologies** – Impact on Commerciality
- ✓ **Horizontal Drilling and Formation Stimulation** – Edwards, Wilcox, and elsewhere
- ✓ **Carbon Sequestration** – Risks, Opportunities, and Implications for EOR
- ✓ **Alternative Energy Solutions** – The Role of Geoscience
- ✓ **Water for a Growing Region** – Geology, Water Quality and Resource Management
- ✓ **Geologic Training and Education** – Preparing for the Crew Change

**HOW TO SUBMIT:**

Abstracts (not more than 250 words) should be submitted for review online to the technical program chair. Papers should have application to Gulf Coast and Gulf of Mexico geology. Include your full mailing address, telephone and FAX numbers, email address, and whether you are submitting for oral or poster or either (preferred).

**Submit abstracts by February 15, 2010 to [www.gcags2010.com](http://www.gcags2010.com)**

Notification of acceptance by March 15, 2010. All presenters, both oral or poster, must submit either a paper (10-12 pages) or an extended abstract with key figures for review by **April 16, 2010**. Full instructions for authors with templates are posted at [www.gcags2010.com](http://www.gcags2010.com).

**ABSTRACT DEADLINE: FEBRUARY 15, 2010!**

Questions or ideas for the technical program should be directed to:

Dr. Mary Feeley

Technical Program Chair

281-654-3588

[missy.feeley@exxonmobil.com](mailto:missy.feeley@exxonmobil.com)

Dr. Alan Dutton

SEPM Co-Chair

210-458-5746

[alan.dutton@utsa.edu](mailto:alan.dutton@utsa.edu)



# The World's Biggest Oil Reserves

by Christopher Helman



Monday, January 25, 2010 provided by \_\_\_\_\_

## Chances are your energy needs are going to flow from one of these fields in the future.

This month Iraq will finalize contracts with the likes of ExxonMobil, Royal Dutch Shell and BP to develop some of its biggest oil fields. These giants are among the world's last remaining pockets of so-called "easy oil." They don't require ultradeep drilling or innovative production techniques, just the application of Big Oil know-how. No wonder the oil companies agreed to develop Iraq's fields without even getting an ownership stake in the fields and collecting as little as \$1.15 per barrel recovered.

Given the size of Iraq's undeveloped giants there are no technical reasons why within 10 years the country can't supplant both Iran and Russia to become the world's No. 2 oil producer after Saudi Arabia. No wonder Iraq holds three of the top 10 fields of the future.

The world gets its daily ration of 85 million barrels of oil from more than 4,000 fields. Most of these are small, less than 20,000 barrels per day. Giants, producing more than 100,000 bpd, account for just 3%. Then there's the megafields that gush out 1 million bpd. These are the most important sources of energy in the world--fields worth fighting over. In figuring the top 10 fields of the future, we're not interested in most of the giants of yesteryear, and not necessarily even the giants of today. Just the giants of tomorrow--those fields that might not even be producing yet, but will likely be doing better than 1 million bpd a decade from now.

The once and future king of the world's oil fields, Ghawar, in Saudi Arabia, ranks first on our list. It is thought to have had more than 100 billion barrels of recoverable oil in place. At 160 miles long and 16 miles wide it confounds even the most experienced geologists. With something on the order of 60 billion produced over the past 60 years, you'd be excused for thinking that Ghawar was sliding into its twilight years. Yet the Saudis insist that Ghawar is still going strong, producing 4.5 million bpd from six main producing areas with the ability to do 5 million bpd if called upon.

The secret to Ghawar's longevity is water injection. Starting in the 1960s Saudi Aramco began injecting water underneath the oil around the outer borders of the field. Today the water flood is up to millions of barrels a day, with the oil floating up to the top of the reservoir on sea of water. In conversations with Forbes in 2008 Aramco executives insisted that by continuing to treat Ghawar with kid gloves they'll be able to coax 4 million bpd out of her for many years to come.

Coming in second is West Qurna, in Iraq, home to an expected 21 billion barrels of oil. This month a joint venture between ExxonMobil ([XOM](#)) and Royal Dutch Shell ([RDSA](#)) was awarded the contract to develop the 9 billion barrel first phase of the West Qurna oil field. They will aim to raise output from 300,000 bpd to 2.3 million bpd. It's tough to make the case that the two biggest oil companies from the countries that invaded Iraq in 2003 are getting a sweetheart deal. The contract calls for the government of Iraq to retain ownership of the field and the oil. Exxon and Shell, as contractors, are to be paid just \$1.90 for each a barrel they produce.

Third is Majnoon, also in Iraq. At 13 billion barrels, these massive reserves are in a relatively small area near the Euphrates River in southern Iraq. The field's abundance was so mind-boggling that it was named Majnoon, Arabic for "crazy." This easy oil hasn't been developed in part because of its location so close to the Iranian border. In the 1980s, during the Iran-Iraq war, managers reportedly buried the wells, concerned that they might be targeted by Iranian forces. The field produces just 50,000 bpd now, but has the potential to do 1.8 million bpd.

The Rumaila field in Iraq, with 17 billion barrels, is the fourth-largest field. In November, British giant BP (BP) and China National Petroleum Corp. won the first oil contract of the post-Saddam era to redevelop Rumaila. Located on the border with Kuwait, the field is already producing 1 million bpd, half of Iraq's total production. The partners intend to spend some \$15 billion to treble that to 2.85 million bpd. That output would be enough to put Rumaila in second place worldwide after Saudi Arabia's Ghawar.

So what won't you see on this list? Mexico's Cantarell is nowhere to be seen. It used to be the second-biggest producer in the world, giving more than 2 million bpd; it's now in terminal decline, slipping below 400,000 bpd. Likewise Russia's Samotlor. It was the monster field of the Soviet Union, with production peaking at 3.5 million bpd in the 1970s. Today it's doing more like 350,000 bpd. No respect for China's biggest field Daging either; it still produces roughly 800,000 bpd but is in serious decline.

As for Canada's heralded oil sands region--sure it's a massive resource, but easy oil it ain't. Oil sands require monstrous amounts of water and natural gas to recover and process. A barrel of oil sands oil costs roughly 20 times more to produce than one from Iraq. And environmentalists think it's dirty.

Lots of oil provinces didn't quite make the cut. West Africa could see the biggest growth of all across Nigeria, Angola and Ghana--but so far no individual fields look big enough on their own. Same for Siberia, which has most of Russia's production, but from mature fields.

Saudi Arabia could have been better represented. Its 750,000 bpd Shaybah field was a runner-up. Iraq too. The government didn't receive any bids to redevelop the 8 billion barrel East Baghdad field because much of it lies under residential neighborhoods. And Kirkuk, in northern Iraq, has something like 8 billion barrels remaining, but it was damaged by overproduction in the latter years of Saddam's rule and won't likely regain its peak of 700,000 bpd. But it could.

## In Depth: The Top Oil Fields of the Future

### 1. Ghawar. Saudi Arabia. 30 Billion Barrels.



The once and future king. Ghawar is thought to have had more than 100 billion barrels of recoverable oil in place. At 160 miles long and 16 miles wide it boggles the mind of even the most experienced geologists. With something on the order of 60 billion produced over the past 60 years, you'd be excused for thinking that Ghawar was sliding into its twilight years. Yet the Saudis insist that Ghawar is still going strong, producing 4.5 million bpd from six main producing areas with the ability to do 5 million bpd if called upon.

### 2. West Qurna. Iraq. 21 Billion Barrels.



This month a joint venture between ExxonMobil and Royal Dutch Shell were awarded the contract to develop the 9 billion barrel first phase of the West Qurna oil field. They will aim to raise output from 300,000 bpd to 2.3 million bpd. It's tough to make the case that the two biggest oil companies from the countries that invaded Iraq in 2003 are getting a sweetheart deal. The contract calls for the government of Iraq to retain ownership of the field and the oil.

### 3. Majnoon. Iraq. 13 Billion Barrels.

Massive reserves in a relatively small area near the Euphrates River in southern Iraq, the field's abundance was so mind-boggling that it was named Majnoon, Arabic for "crazy." This easy oil hasn't been developed in part because of its location so close to the Iranian border. In the 1980s, during the Iran-Iraq war, managers reportedly buried the wells, concerned that they might be targeted by Iranian forces. The field produces just 50,000 bpd now but has the potential to do 1.8 million bpd.



### 4. Rumaila. Iraq. 17 Billion Barrels.

In November, British giant BP and China National Petroleum won the first oil contract of the post-Saddam era to redevelop Rumaila. Located on the border with Kuwait, the field is already producing 1 million bpd, half of Iraq's total production. The partners intend to spend some \$15 billion to treble that to 2.85 million bpd. That output would be enough to put Rumaila in second-place worldwide after Saudi Arabia's Ghawar.



### 5. Khuzestan. Iran. 100 Billion Barrels?

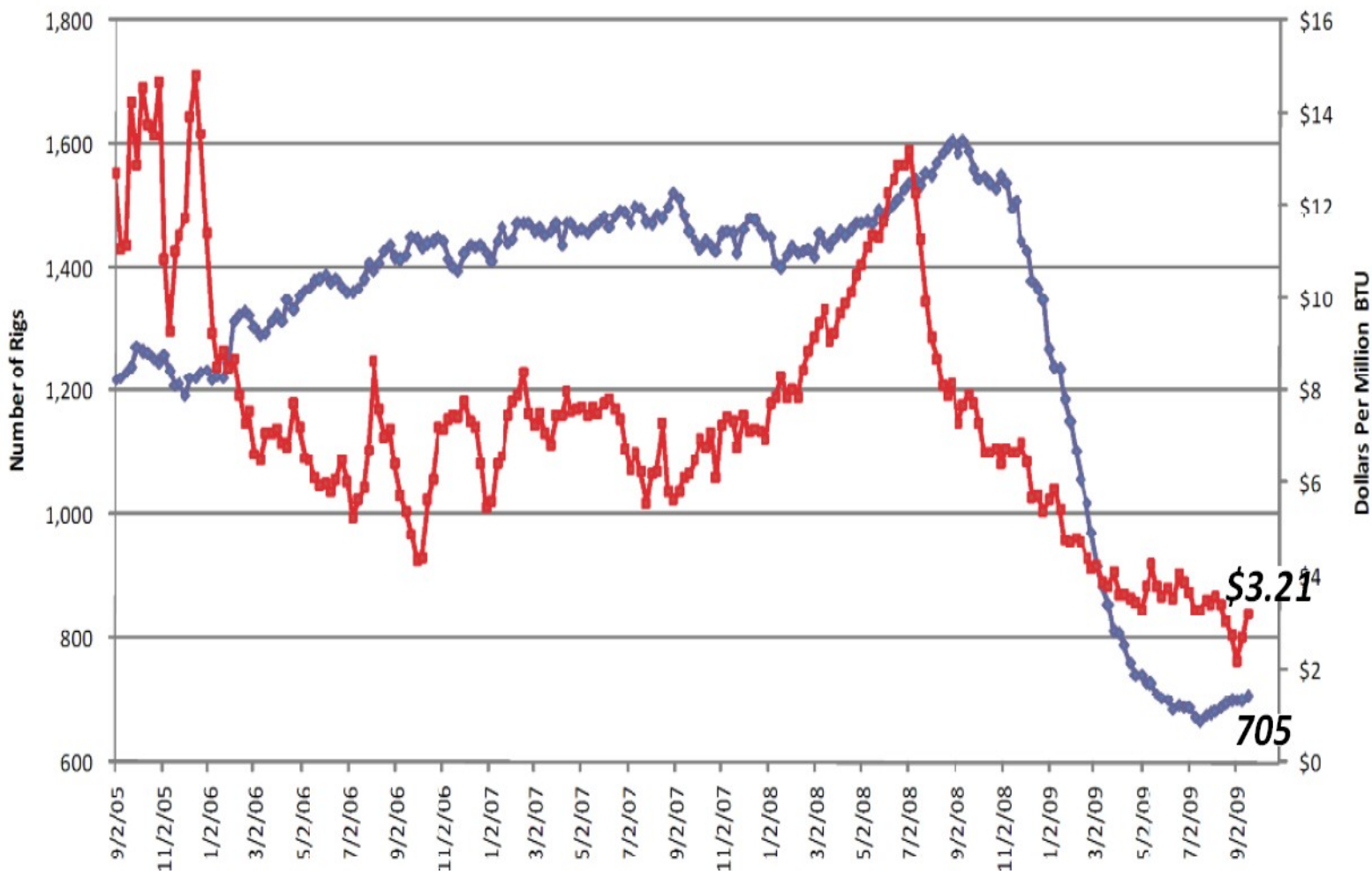
Not just a field, Khuzestan is the province where 90% of Iran's oil is produced. It borders Iraq and is home to the Ahwaz field, thought to produce 300,000 bpd, and the Yadavaran field, which is being developed by China's Sinopec under a \$70 billion deal made in 2004. Last year in the province Iran trumpeted the discovery of an 8 billion barrel field called Soussangerd. Iraq's Majnoon field is thought to extend over the border into Khuzestan territory.



Full story at: [http://www.forbes.com/2010/01/20/biggest-oil-fields-business-energy-oil-fields\\_slide\\_2.html](http://www.forbes.com/2010/01/20/biggest-oil-fields-business-energy-oil-fields_slide_2.html)

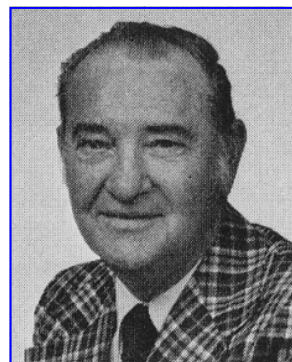
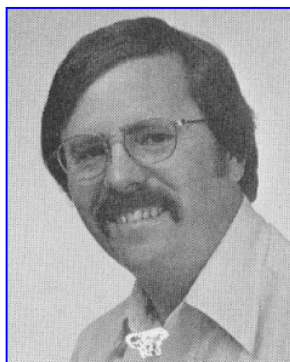
# U.S. Gas Rig Count and Spot Natural Gas Price

— Rig Count — Henry Hub Price



## Who are these MGS members?

Hint: 1978



Answers on last page

## MGS BOLAND SCHOLARSHIP FUND

The Society's L. F. Boland Scholarship Fund is open to donations (tax deductible) year round. Your contribution will help the Society recognize and reward outstanding earth science students at its annual Honors Day meeting on March 11, 2010.

Since inception in 1980, the Society has honored 104 students with the Boland Award. If you would like to contribute, please contact Dave Cate at 601-718-9397 or mail your check (L. F. Boland Scholarship Fund) to him at 217 W. Capitol St., Jackson, MS 39201.

The MGS gratefully acknowledges the following contributors to the L. F. Boland Scholarship Fund for the 2009-2010 year.

### The Boland Family

Joe  
Bill  
Pat  
Liz  
Butch  
Mike  
Mary

Maurice Birdwell  
Dave Cate  
Chris Franks  
Jim Furrh  
Paul Gribas  
Meade Hufford  
James D Libiez

Maurice Meylan  
George Puckett  
Jim Michael  
Julius Ridgway  
Bob Schneeflock  
Tony Stuart

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**Paul Applin\***

**Lawrence F. Boland\***

**Verne Culbertson**

**H. Leroy Francis\***

**David C. Harrell\***

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**Wendell B. Johnson \***

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**Henry Toler\***

**H. Vaughn Watkins**

**Stewart W. Welch**

**Charles H. Williams**

**Jerry Zoble**

**\* deceased**

**MEMBERSHIP APPLICATION / RENEWAL FORM**

**MISSISSIPPI GEOLOGICAL SOCIETY**

**P.O. BOX 422, JACKSON, MISSISSIPPI 39205-0422**

**2009-2010**

Membership year is June through May

New Membership (\$20/yr)\_\_\_\_\_ Renewal (\$20/yr)\_\_\_\_\_ Student (\$5/yr)\_\_\_\_\_ Associate (\$20/yr)\_\_\_\_\_

Boland Scholarship Fund Donation \$\_\_\_\_\_ Total Amount Enclosed \$\_\_\_\_\_

Last Name:\_\_\_\_\_ First:\_\_\_\_\_ MI:\_\_\_\_\_

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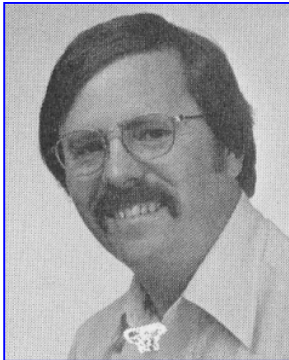
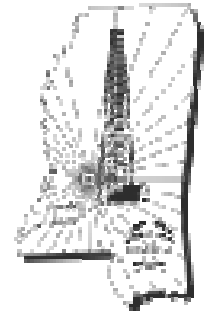
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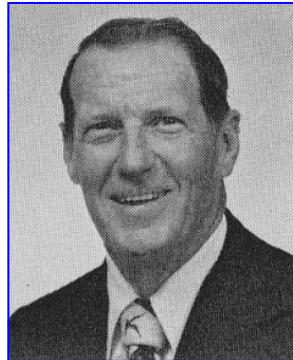
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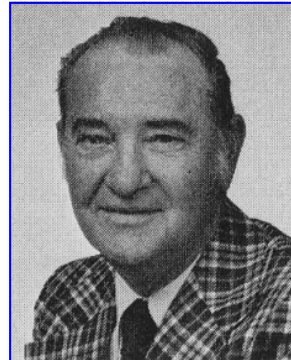
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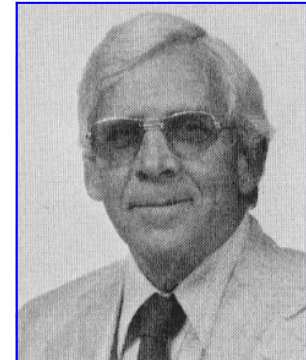
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A truly honorable man helps a young elephant, Read on,

In 1986, Mkele Mbembe was on holiday in Kenya after graduating from Northwestern University. On a hike through the bush, he came across a young bull elephant standing with one leg raised in the air. The elephant seemed distressed, so Mbembe approached it very carefully. He got down on one knee and inspected the elephant's foot, and found a large piece of wood deeply embedded in it. As carefully and as gently as he could, Mbembe worked the wood out with his hunting knife, after which the elephant gingerly put down its foot. The elephant turned to face the man, and with a rather curious look on its face, stared at him for several tense moments. Mbembe stood frozen, thinking of nothing else but being trampled. Eventually the elephant trumpeted loudly, turned, and walked away. Mbembe never forgot that elephant or the events of that day.

Twenty years later, Mbembe was walking through the Chicago Zoo with his teenaged son. As they approached the elephant enclosure, one of the creatures turned and walked over to near where Mbembe and his son Tapu were standing. The large bull elephant stared at Mbembe, lifted its front foot off the ground, then put it down. The elephant did that several times then trumpeted loudly, all the while staring at the man. Remembering the encounter in 1986, Mbembe couldn't help wondering if this was the same elephant. Mbembe summoned up his courage, climbed over the railing and made his way into the enclosure. He walked right up to the elephant and stared back in wonder. The elephant trumpeted again, wrapped its trunk around one of Mbembe's legs and slammed him against the railing, killing him instantly.

Probably wasn't the same elephant.....