



Volume 61

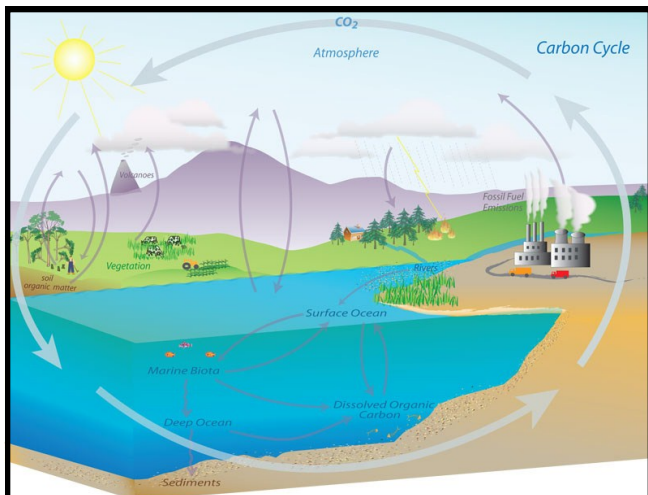
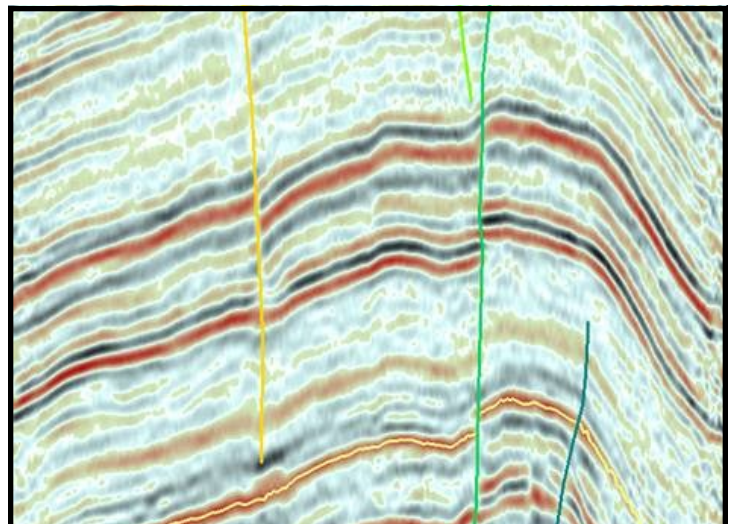
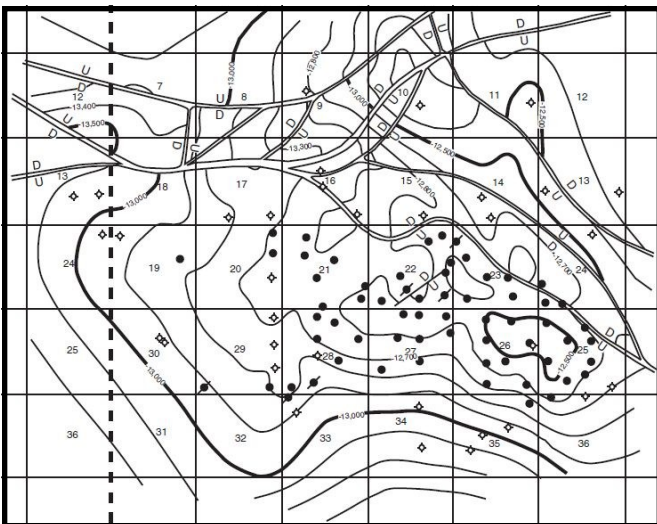
No. 4

December 2012



# MISSISSIPPI GEOLOGICAL SOCIETY

## eBULLETIN





# MGS 2012-2013 BOARD OF DIRECTORS

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<b>AAPG</b>	Maurice Birdwell	Independent	(601) 936-6939
<b>GCAGS</b>	Danny Harrelson	U.S. Army R&D	(601) 634-2685

## *Other*

<b>Environmental</b>	Ken Ruckstuhl	Environmental Mgt.	(601) 992-8233
<b>Historian</b>	Stanley King	Independent	(601) 842-3539



# PRESIDENT'S LETTER

*Jim Files*

Hello fellow members!

Merry Christmas and Happy New Year!

Please be safe and enjoy the holidays. Looking forward to seeing everyone in 2013!

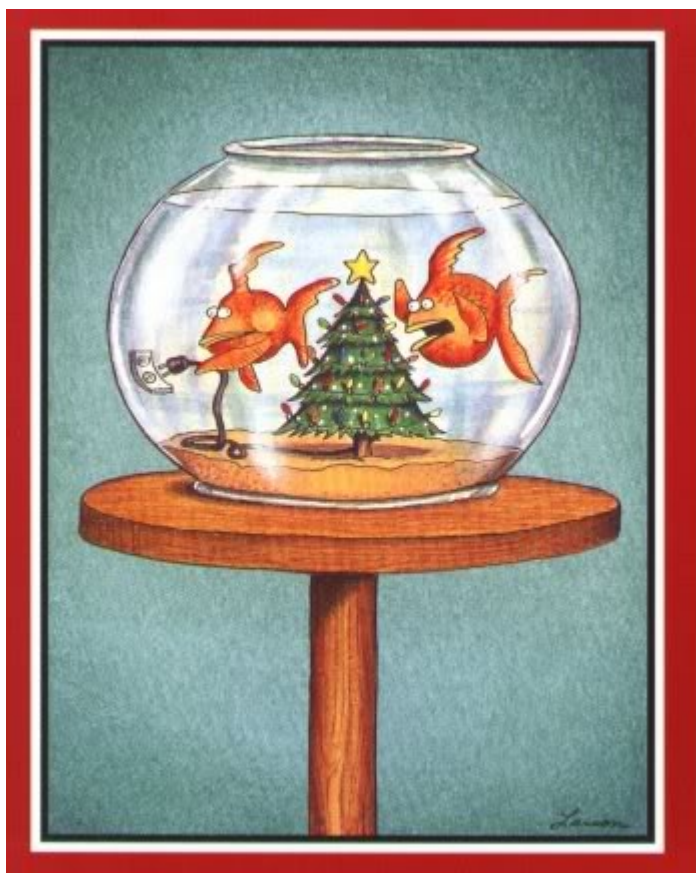
Best Regards,

Jim Files



# MGS MEETING SCHEDULE

When	What/Who	Where
September 13, 2012	Fall BBQ	Jackson Yacht Club-5:30pm
October 4, 2012	Steve Walkinshaw The Lower Brown Dense Lime Trend	River Hills – 11:30am
November 8, 2012	<b>Morgan Brown</b> Prestack Depth Migration for “Easy” Onshore Plays	River Hills – 11:30am
December 1, 2012	Christmas Party and Dance	Colonial Country Club
<b>January 10, 2013</b>	<b>Dr. Lesli Wood</b> <b>Tuscaloosa Depositional Systems</b>	<b>River Hills – 11:30am</b>
February 14, 2013	Kirk Barrell Tuscaloosa Marine Shale	River Hills – 11:30am
March 14, 2013	TBD	River Hills – 11:30am
April 11, 2013	Boland Scholarship Awards	River Hills – 11:30am
May 9, 2013	Spring Fling	Jackson Yacht Club– 5:30pm



## OFFICERS MEETINGS

August 4, 2012
September 6, 2012
September 27, 2012
November 1, 2012
December 6, 2012
January 3, 2013
February 7, 2013
March 7, 2013
April 4, 2013
May 2, 2013



# JANUARY SPEAKER

*Dr. Lesli J. Wood*

**MARK** your calendars January 10th as we welcome Dr. Lesli J. Wood from the Bureau of Economic Geology. She will be giving a fantastic talk on Tuscaloosa depositional systems. I personally heard her speak at GCAGS, and believe me, you don't want to miss this!



Dr. Lesli J. Wood  
Senior Research Scientist  
Bureau of Economic Geology  
The University of Texas at Austin

My technical expertise is in clastic sedimentology, sequence stratigraphy, and seismic geomorphology. I specialize in the study of land margins and the processes, deposits, and fluid systems that characterize them. This interest extends to systems on other planets, as well as on Earth. I have extensive experience in physical modeling of clastic processes and a strong interest in predictive models of complex geomorphic response to extrinsic and intrinsic changes.

In addition, I have research interests in gas hydrates, shale tectonics, and the biotic and fluid systems of deep-ocean mud volcanoes. My industry experience includes integrated study of petroleum systems, exploration prospect development and operations, and regional hydrocarbon prospectivity evaluation. I am well versed in the integration of biostratigraphic, oxygen isotopic, geochemical, seismic, and well log and production data for subregional and regional sequence stratigraphic and basin analysis.



# NEWS

## *MDEQ*



The Mississippi Department of Environmental Quality (MDEQ) would like everyone to know they have started putting old Survey Bulletins online. These Bulletins are available through:

<http://www.deq.state.ms.us>

Below is a list of sample links you can copy/paste into your browser.

[http://www.deq.state.ms.us/MDEQ.nsf/page/Geology\\_Bulletin131ATLASOFSHALLOWMISSISSIPPISALTDOMES?OpenDocument](http://www.deq.state.ms.us/MDEQ.nsf/page/Geology_Bulletin131ATLASOFSHALLOWMISSISSIPPISALTDOMES?OpenDocument)

[http://www.deq.state.ms.us/MDEQ.nsf/page/Geology\\_Bulletin129StreptoneuranGastropodsTheCoffee\\_SandCampanianNEMS?OpenDocument](http://www.deq.state.ms.us/MDEQ.nsf/page/Geology_Bulletin129StreptoneuranGastropodsTheCoffee_SandCampanianNEMS?OpenDocument)

[http://www.deq.state.ms.us/MDEQ.nsf/pdf/Geology\\_Bulletin125/\\$File/Bulletin%20125.pdf?OpenElement](http://www.deq.state.ms.us/MDEQ.nsf/pdf/Geology_Bulletin125/$File/Bulletin%20125.pdf?OpenElement)

[http://www.deq.state.ms.us/MDEQ.nsf/page/Geology\\_Bulletin123?OpenDocument](http://www.deq.state.ms.us/MDEQ.nsf/page/Geology_Bulletin123?OpenDocument)

[http://www.deq.state.ms.us/MDEQ.nsf/page/Geology\\_Bulletin100?OpenDocument](http://www.deq.state.ms.us/MDEQ.nsf/page/Geology_Bulletin100?OpenDocument)

[http://www.deq.state.ms.us/MDEQ.nsf/page/Geology\\_Bulletin23PaleozoicRocks?OpenDocument](http://www.deq.state.ms.us/MDEQ.nsf/page/Geology_Bulletin23PaleozoicRocks?OpenDocument)

[http://www.deq.state.ms.us/MDEQ.nsf/page/Geology\\_Circular-RocksAndFossilsFoundInMississippisGravelDeposits?OpenDocument](http://www.deq.state.ms.us/MDEQ.nsf/page/Geology_Circular-RocksAndFossilsFoundInMississippisGravelDeposits?OpenDocument)

[http://www.deq.state.ms.us/MDEQ.nsf/page/Geology\\_Circular-WindowsIntoMississippi%E2%80%99sGeologicalPast?OpenDocument](http://www.deq.state.ms.us/MDEQ.nsf/page/Geology_Circular-WindowsIntoMississippi%E2%80%99sGeologicalPast?OpenDocument)



# BOLAND SCHOLARSHIP WATCH

Faculty & Students,

2013 is almost here and the Mississippi Geological Society along with the Boland Scholarship Fund would like to remind you that we want to honor the most outstanding overall students for the 2012-2013 year.

Each year, the Boland Scholarship awards 1 student from each institution a check that rewards students for their hard work and dedication to the Geosciences and their community.

We look forward to a great year and hope to see you at our monthly meetings.

Best Regards,

Matt Caton  
Editor



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# **BOLAND SCHOLARSHIP DONATIONS**

**MGS would like to thank the following individuals for their generous donations to the Boland Scholarship Fund.**

**Maurice Birdwell**

**Ken McCarley**

**George Smith**

**Maurice Meylan**

**Terry Bryant**

**Jim Michael**

**Chris Franks**

**Meade Hufford**

**Dave Cate**

**Jak Douglas**

**If you would like to make a donation please see Bill Bagnall at the monthly meetings, or you can send your contribution to the following address:**

**Mississippi Geological Society  
PO BOX 422  
Jackson, MS 39205-0422**





# ARTICLE OF THE MONTH

## *Top Workplaces Set to Hire*



The need for top talent doesn't stop during a downturn - it increases. Proven skills and education become top priority and with talent, higher pay follows. Whether you are looking to make a career change, advance in your career, or would like to enter the business, the oil and gas industry offers something for everyone. The industry supports jobs in exploring, producing, refining, transporting and marketing oil and natural gas, along with the purchases it makes of other goods and services that support the industry's operations, according to the American Petroleum Institute (API). Equipment supplies, construction companies, management specialists, and food service businesses are all strongly linked to the industry.

Specifically, 9.2 million American jobs support the sector, adding more than \$1 trillion to the national economy. As the economy makes an upturn, the need for skilled and educated employees will continue to be in high demand. Jobs requiring a master's degree are expected to grow the fastest, while those requiring a high school diploma will experience the slowest growth over the 2010-2020 timeframe, according to the United States Department of Labor.

Recently, the *Houston Chronicle* conducted their annual ranking of the city's top workplaces for 2012 listing 150 notable companies due to their advancement opportunities, value of pay and benefits, and communication and management skills from the bosses.



# ARTICLE Cont

**Anadarko** states it is among the largest independent oil and natural gas exploration and production company in the world with 2.54 billion barrels of oil equivalent of proved reserves at year-end 2011. Anadarko holds assets in a dozen major U.S. onshore resource plays and is also the largest independent deepwater producer in the Gulf of Mexico. The oil and gas company also holds resources in Alaska, Algeria, Brazil, China, Colombia, Guyana, Indonesia, New Zealand, Kenya and West and South Africa. With more than 1,999 employees, the company, founded in 1985, is headquartered in Houston. Anadarko is looking to fill positions specializing in geology, engineering, supply chain and safety and training.

**Noble Energy** has been in the oil and gas business for more than 80 years. Branded as one of the first independent producers to explore in the Gulf of Mexico, the company is an S&P 500 company with reserves of 1.2 billion barrels of oil equivalent and assets totaling over \$16 billion at year-end 2011. Noble Energy's operations include the exploration, development and production of crude oil and natural gas in the United States, both onshore and off, and internationally, including West Africa and the Mediterranean. The company, headquartered in Houston and employing approximately 760 people, is looking to fill positions in engineering, geology, marketing, accounting and finance, IT and administration.

**Hilcorp** is the third-largest, privately-held exploration and production company in the United States. Founded in 1989 and headquartered in Houston, Hilcorp employs more than 1,000 people. The oil and gas company operates in 11 areas including the Gulf Coast region, the Gulf of Mexico, the Rockies and Alaska's Cook Inlet. With roughly 25 open positions at Hilcorp, the company is looking to fill vacancies in field operations, engineering, geology and accounting.

**EOG**, with more than 745 million barrels of proved crude oil, condensate and natural gas liquids reserves, EOG Resources is a publicly-owned oil and natural gas company. The company's areas of operation are onshore and throughout the United States and the world, specifically in Argentina, China, Trinidad and Tobago and the United Kingdom. EOG, formerly Enron Oil & Gas Company, adopted a new name in 1999 and then declared its independence from Enron. The company employs approximately 2,550 people and is headquartered in Houston. With about 52 open positions, EOG has vacancies in accounting, operations, marketing, drilling, engineering, and geology.

**LINN Energy** has grown from a handful of natural gas wells in 2003 to a top-15 independent U.S. E&P company with about 5.1 trillion cubic feet of equivalent of proved reserves in producing U.S. basins. The company has about 15,000 gross productive oil and natural gas wells, and two of its key growth areas are the Granite Wash and Permian Basin Wolfberry Trend. Now housing roughly 1,000 employees, LINN was founded in 2003 and has access to about 3.2 million gross acres throughout the United States. The company is headquartered in Houston and has open positions in engineering, business and management.

**Energy XXI**, an oil and gas exploration and production company, operates or has an interest in six of the 11 largest oil fields in the Gulf of Mexico. Founded in October 2005, the company's core properties are located in coastal and offshore Louisiana. By year-end 2010, the company had estimated proved plus probable reserves totaling 158.1 million barrels of oil equivalent. The company is headquartered in Bermuda and has open positions in engineering.

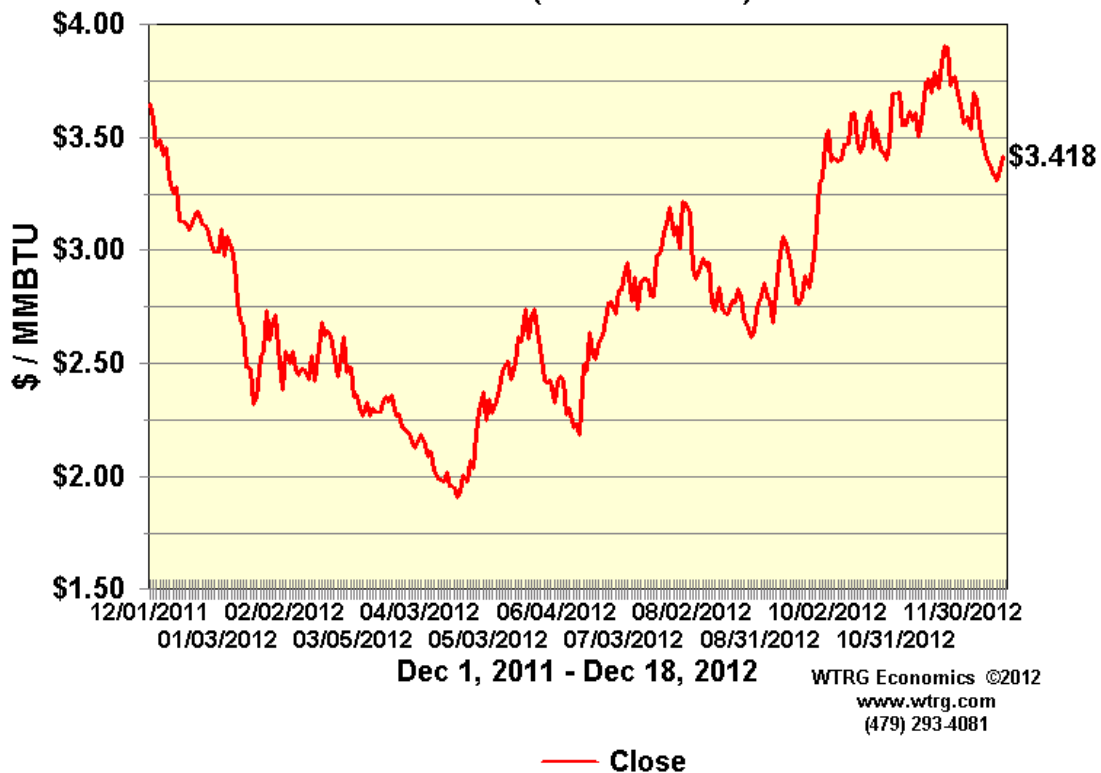


# CURRENT PRICES

## NYMEX Crude Oil Futures Close ( Front Month )



## NYMEX Natural Gas Futures Close (Front Month)



## Future Meetings of Selected Earth Science Organizations

EVENT	2011	2012	2013	2014	2015
AAPG Annual Convention & Exhibition (ACE)	10–13 April Houston, TX	22–25 April Long Beach, CA	19–22 May Pittsburgh, PA	6–9 April Houston, TX	31 May–3 June Denver, CO
AAPG International Conference & Exhibition (ICE)	23–26 October Milan, Italy	September Singapore	8–11 September Cartagena, Colombia		
AAPG Prospect & Property Expo-London (APPEX)	1–3 March London, UK	6–8 March London, UK			
AAPG Annual Leadership Conference	12–14 August Boulder, CO				
AAPG Foundation Trustee Associates	7–11 September Lake Tahoe, CA	28 Oct–1 Nov Scottsdale, AZ			
AAPG European Region Conference					
AAPG Eastern Section	25–27 September Washington, D.C.	22–26 September Cleveland, OH			
AAPG Gulf Coast Section (GCAGS)	16–19 October Veracruz, Mexico	21–23 October Austin, TX	Sept–Oct TBD New Orleans, LA	Sept–Oct TBD Lafayette, LA	Sept–Oct TBD Houston, TX
AAPG Mid-Continent Section	1–4 October Oklahoma City, OK				
AAPG Pacific Section	9–11 May Anchorage, AK	22–25 April Long Beach, CA			
AAPG Rocky Mountain Section (RMS)	26–29 June Cheyenne, WY	9–12 September Grand Junction, CO	TBD Salt Lake City, UT	TBD Denver, CO	
AAPG Southwest Section	5–7 June Ruidoso, NM	19–22 May Ft. Worth, TX			
AAPG Polar Petroleum Potential (3P)	30 Aug–2 Sept Halifax, Nova Scotia				
American Association of Petroleum Landmen (AAPL) Annual Meeting	8–11 June Boston, MA				
Arctic Technology Conference (OTC) <i>New!</i>	7–9 February Houston, TX	3–5 December Houston, TX			
Asia Pacific Oil & Gas Conference (SPE)	20–22 September Jakarta, Indonesia	22–24 October Perth, Australia			
Association of Environmental & Engineering Geologists (AEG)	19–24 September Anchorage, AK	TBD Salt Lake City, UT	TBD Seattle, WA		
Canadian Society of Petroleum Geologists (CSPG), Canadian Society of Exploration Geoscientists (CSEG), & Canadian Well Logging Society (CWLS)	9–13 May Calgary, AB, Canada				
European Assoc. of Geoscientists and Engineers (EAGE)	23–26 May Vienna, Austria	4–7 June Copenhagen, Denmark	9–14 June London, UK		
GEO India — South Asian Geosciences Conference & Exhibition	12–14 January New Delhi, India	Not Held			
GEO Middle East Geosciences Conference and Exhibition	Not Held	4–7 March Bahrain	Not Held		
Geological Assoc. of Canada/ Mineralogical Assoc. of Canada Annual Meeting	25–27 May Ottawa, ON, Canada	27–29 May St. John's, NL, Canada	22–24 May Winnipeg, MB, Canada		
Geological Society of America (GSA)	9–12 October Minneapolis, MN	4–7 November Charlotte, NC	27–30 October Denver, CO		
IPTC – International Petroleum Technology Conference (AAPG/EAGE/SEG/SPE)	15–17 November Bangkok, Thailand	5–7 December Beijing, China	2–4 December Doha, Qatar	TBD Kuala Lumpur, Malaysia	
National Association of Black Geologists & Geophysicist (NABGG)	7–10 September San Francisco, CA				
NAPE – North American Prospect Expo (AAPL) – Winter	16–18 February Houston, TX	22–24 February Houston, TX			
NAPE – North American Prospect Expo (AAPL) – Summer	17–19 August Houston, TX				
OTC – Offshore Technology Conference (SPE)	2–5 May Houston, TX	30 April–3 May Houston, TX	6–9 May Houston, TX	5–8 May Houston, TX	
PETEX (PESGB)	Not Held				
Society of Exploration Geophysicists (SEG)	18–23 September San Antonio, TX	4–9 November Las Vegas, NV	22–27 September Houston, TX	26–31 October Denver, CO	
Society of Independent Earth Scientists (SIPES)	20–23 June Jackson Hole, WY				
Society of Petroleum Engineers (SPE)	30 Oct–2 Nov Denver, CO	8–10 October San Antonio, TX	30 Sept–2 Oct New Orleans, LA		
Society of Professional Well Log Analysts (SPWLA)	14–18 May Colorado Springs, CO				

Shaded boxes indicate that all aspects of meeting are managed by the American Association of Petroleum Geologists  
Global Development and Conventions Department  
P.O. Box 979, Tulsa, Oklahoma 74101-0979 USA +1 918 560 2679  
Updated 14 July 2011 / Dates are subject to change

# GEO LINK POST

**USGS TAPESTRY OF TIME AND TERRAIN** <http://tapestry.usgs.gov> The CCGS is donating to all of the 5th and 6th grade schools in the Coastal Bend. Check it out—it is a spectacular map. You might want a framed one for your own office. The one in my office has glass and a metal frame, and it cost \$400 and it does not look as good as the ones we are giving to the schools. Call Owen 510-6224 if you want one for your office for \$150. Duncan, Mike, Chris, Dave, Bob Randy, Seb., Kevin, Ken, Craig, Patrick, Robert.

**FREE TEXAS TOPO'S** <http://www.tnris.state.tx.us/digital.htm> these are TIFF files from your state government that can be downloaded and printed. You can add them to SMT by converting them first in Globalmapper. Other digital data as well.

**FREE NATIONAL TOPO'S** [http://store.usgs.gov/b2c\\_usgs/b2c/start/\(xcm=r3standardpitrex\\_prd\)/.do](http://store.usgs.gov/b2c_usgs/b2c/start/(xcm=r3standardpitrex_prd)/.do) go to this webpage and look on the extreme right side to the box titled TOPO MAPS DOWNLOAD TOPO MAPS FREE.

<http://www.geographynetwork.com/> Go here and try their top 5 map services. My favorite is 'USGS Elevation Date.' Zoom in on your favorite places and see great shaded relief images. One of my favorites is the Great Sand Dunes National Park in south central Colorado. Nice Dunes.

<http://antwrp.gsfc.nasa.gov/apod/astropix.html> Astronomy picture of the day — awesome. I click this page everyday.

<http://www.spacimaging.com/gallery/ioweek/iow.htm> Amazing satellite images. Check out the gallery.

<http://www.ngdc.noaa.gov/seg/topo/globegal.shtml> More great maps to share with kids and students.

[www.geo.org](http://www.geo.org) Don't forget we have our own web page.

<http://micro.magneet.fsu.edu/primer/java/scienceoptiscu/owersof10/>

<http://asterweb.jpl.nasa.gov/galery/default.htm> Great satellite images of volcanoes

<http://terra.nasa.gov/gallery/> More here

[www.ermapper.com](http://www.ermapper.com) They have a great free downloadable viewer for TIFF and other graphic files called ER Viewer.

[www.drillinginfo.com](http://www.drillinginfo.com) This is an incredible (subscription) well and completion data service for independents. Can be demo'ed for free.

<http://terrasrver.com/> Go here to download free aerial photo images that can be plotted under your digital land and well data. Images down to 1 meter resolution, searchable by Lat Long coordinate. Useful for resolving well location questions.

<http://www.fs.fed.us/gpnl/volcanocams/msh/> This is a live cam of Mt. St. Helens refreshed every 5 minutes. At the bottom are old videos of past eruptions in this cycle. It is worth a watch especially now.



# GEOLOGY POST

## ARTICLES, PAPERS or NEWS?

**ATTENTION!!!!!!** Industry, Professors and Students:

We would like to add a dedicated section that includes more content from the industry and our schools.

Submissions can include anything from professional papers, thesis abstracts, job opportunities to pictures. Anything!!!!

If you have any information or news you would like to share with the Society **PLEASE** email them to the MGS Editor at:

[mcaton@tellusoperating.com](mailto:mcaton@tellusoperating.com)

Thanks & Regards,

Matt Caton  
Editor



# MGS HONORARY MEMBERS

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**Dudley J. Hughes**

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**Julius Ridgeway**

**\* deceased**

**MEMBERSHIP APPLICATION / RENEWAL FORM**

**MISSISSIPPI GEOLOGICAL SOCIETY**

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

**2012-2013**

Membership year is June through May

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

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

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

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Office Phone: \_\_\_\_\_ Home Phone: \_\_\_\_\_ FAX: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

College/University Attended: \_\_\_\_\_

Degree(s) Obtained and Year(s) Awarded: \_\_\_\_\_

Professional Associations, Certifications, & Licenses: \_\_\_\_\_





# 2012-2013 MGS MEMBERS

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O Bill Bagnall	Larry Baria
O Neil Barnes	Randy Bissell
Maurice Birdwell	Terry Bryant
Robert Branson	Alvin Byrd
O Matt Caton	Dave Cate
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O Todd Hines	David Handcock
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John Sullivan	Billy Powell
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Sid Thompson	Jimmy Sparks
Steve Walkinshaw	Tony Stuart
Johnny Holifield	Stan Thieling
Joe White	

\*This list is updated on a monthly basis.

## MGS ADVERTISING ORDER FORM

September 2012 – May 2013

### I. Bulletin Advertisements:

<u>Size</u>	<u>Rate/Year</u>	<u>Amt. Remitted</u>
Full Page Ad (6" x 8")	\$500	\$ _____
1/2 Page Ad (6" x 4")	\$300	\$ _____
1/4 Page Ad (3" x 4")	\$200	\$ _____
Business Card Ad (1 1/2" x 3")	\$100	\$ _____
Professional Listing (1/2" x 3")	\$ 50	\$ _____

### II. Web Page Advertisements (www.missgeo.com):

<u>Type of Web Page Ad</u>	<u>Rate/Year</u>	<u>Amt. Remitted</u>
Front Page Sponsor (Banner Ad – limit of 5)	\$500	\$ _____
Second Page Banner Ad	\$250	\$ _____
Professional Listing/Link	\$100	\$ _____

(Note: Please contact Steve Walkinshaw at (601) 607-3227 or mail@visionexploration.com for details concerning placing your ad on the MGS web site.)

**Total Remitted** \$ \_\_\_\_\_

Please make checks payable to the Mississippi Geological Society. If you have any questions, contact Matt Caton at (601) 898-7444 or mcaton@tellusoperating.com

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1941-1942	J. Tom McGlothlin	1975-1976	Jerry E. Zoble
1942-1943	Dave C. Harrell	1976-1977	P. David Cate
1943-1944	K. K. "Bob" Spooner	1977-1978	Sarah Childress
1944-1945	L. R. McFarland	1978-1979	Les Aultman
1945-1946	J. B. Story	1979-1980	Philip R. Reeves
1946-1947	Frederic F. Mellen	1980-1981	Marshall Kern
1947-1948	H. Lee Spyles	1981-1982	Stephen Oivanki
	Robert D. Sprague	1982- 1983	James W. "Buddy" Twiner
1948-1949	Robert D. Sprague	1983- 1984	Charles H. Williams
1949-1950	E. T. "Mike" Monsour	1984- 1985	C. Kip Ferns
1950-1951	J. Tate Clark	1985-1986	Steven S. Walkinshaw
	Charles E. Buck	1986-1987	J. R. "Bob" White
1951-1952	George W. Field	1987-1988	Harry Spooner
1952-1953	James L. Md11in, Jr.	1988-1989	Stanley King
1953-1954	Wilbur H. Knight	1989-1990	Stan Galicki
1954-1955	A. Ed Blanton	1990-1991	E. James Files, Jr.
1955-1956	Gilbert A. Talley	1991-1992	Stephen L. Ingram, Sr.
1956-1957	Ben Ploch	1992-1993	Michael Noone/Stanley King
1957-1958	Emil Monsour	1993-1994	Brian Sims
1958-1959	Charles Brown	1994-1995	C. W. "Neil" Barnes
1959-1960	M. F. Kirby	1995-1996	Lester Aultman
1960-1961	Rudy Ewing	1996-1997	Jack S. Moody
1961-1962	Xavier M. Franscogna	1997-1998	George B. Vockroth
1962-1963	Robert B. Ross	1998-1999	Rick L. Ericksen
1963-1964	William A. Skees	1999-2000	Stanley King
	Marvin Oxley	2000-2001	John C. Marble
1964-1965	James F. Bollman	2001-2002	Andrew T. Sylte
1965-1966	Sankey L. Blanton	2002-2003	Aaron Lasker
1966-1967	Alan Jackson	2003-2004	John G. Cox
1967-1968	Julius M. Ridgway	2004-2005	James E. Starnes
1968-1969	Edward D. Minihan	2005-2006	Todd Hines
1969-1970	Kevin E. Cahill	2006-2007	Bob Schneeflock
1970-1971	John Lancaster	2007-2008	Tony Stuart
1971-1972	Larry Boland	2008-2009	Lisa Ivshin
		2009-2010	Joe Johnson
		2010-2011	Brian Sims
		2011-2012	Stanley King