

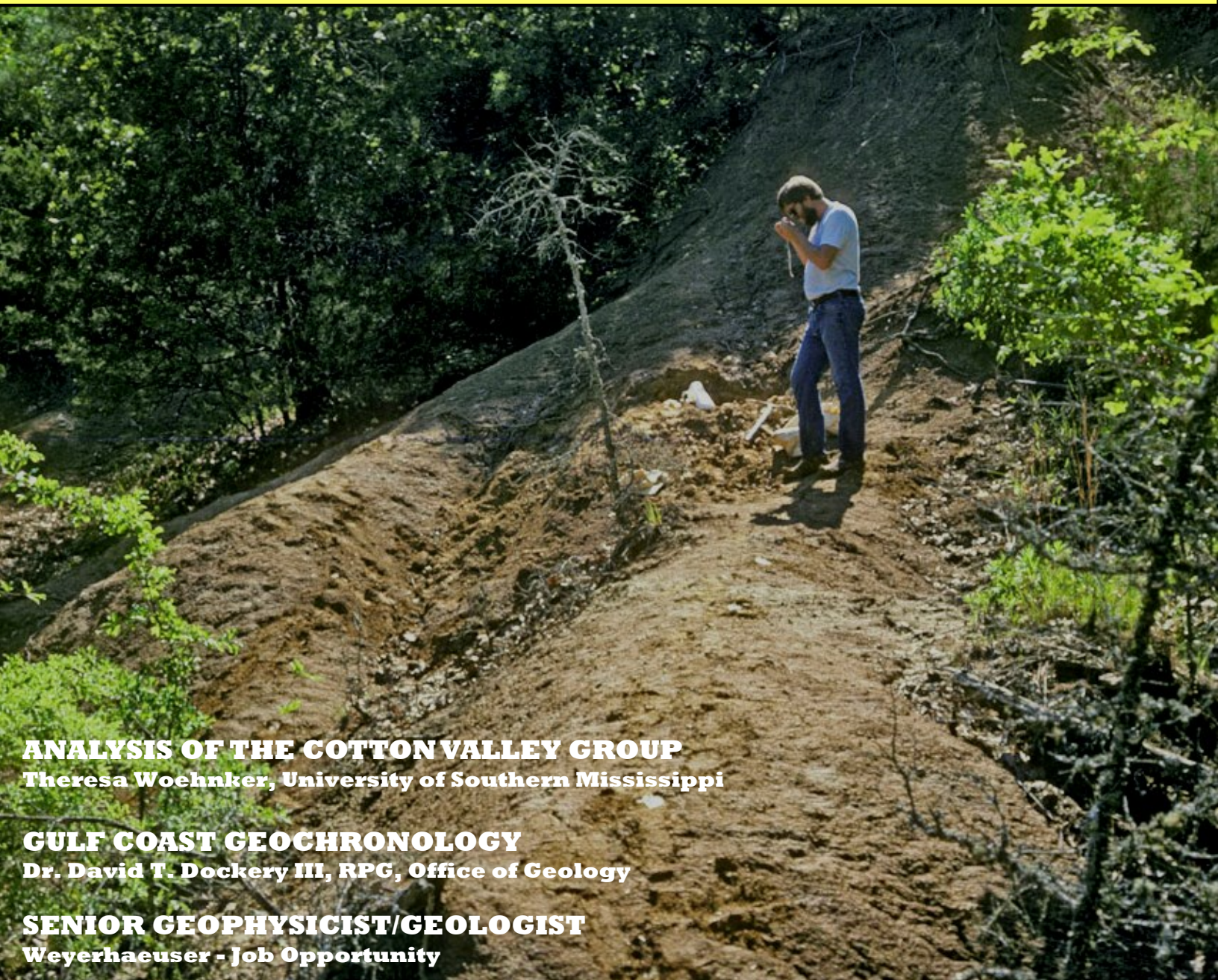
MISSISSIPPI GEOLOGICAL SOCIETY

# eBULLETIN

Volume 66

No. 7

March 2018



**ANALYSIS OF THE COTTON VALLEY GROUP**

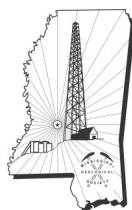
**Theresa Woehner, University of Southern Mississippi**

**GULF COAST GEOCHRONOLOGY**

**Dr. David T. Dockery III, RPG, Office of Geology**

**SENIOR GEOPHYSICIST/GEOLOGIST**

**Weyerhaeuser - Job Opportunity**



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# PRESIDENT'S LETTER

*David Hancock*



We had a good turnout last month despite the conflict with NAPE. Dr. David Dockery did an excellent presentation on a plethora of geologic topics around Mississippi. Very informative and as always, interesting. Thanks David! This month we will have masters student, Theresa Woehner present her research on the Cotton Valley formation. The title of her thesis is "Analysis of the Cotton Valley Group in the northeastern Mississippi Interior Salt Basin". Since the oil and gas downturn and the rise of the shale plays, not much effort and research has been put into the conventional plays. The Cotton Valley continues to be one of our more prolific formations and I am looking forward to Theresa's discussion.

Next month will be the Boland Scholarship presentations where we will be honoring students from the four in state Universities and Colleges that offer degrees in the geological sciences. We will also present the Justin Johnson award based more on perseverance and attitude under hardship. The Boland Committee, led by Neil Barnes, is interviewing candidates as I write. Please come and support the students as they receive their awards. We may have some surprise awards of our own. More on that next month. See ya Thursday!

# 2017-2018 MGS MEETING SCHEDULE

When	What/Who	Where
September 14, 2017	Fall BBQ	Jackson Yacht Club-5:30pm
October 12, 2017	EZAT HEYDARI The Last Delta on Mars	River Hills – 11:30am
November 7, 2017	Todd Kiefer Update: Energy & Power: Global Influences	River Hills – 11:30am
December 25, 2017	Merry Christmas	
January 11, 2018	EZAT HEYDARI The Cause and Consequences of the End-Permian	River Hills – 11:30am
February 8, 2018	Dr. David T Dockery III, RPG Applying Geology to Environmental Issues	River Hills – 11:30am
<b>March 8, 2018</b>	<b>Theresa Woehner Analysis of the Cotton Valley Group</b>	<b>River Hills – 11:30am</b>
April 12, 2018	Boland Scholarship Awards	River Hills – 11:30am
May 10, 2017	Spring Fling	Jackson Yacht Club– 5:30pm

SYSTEM SERIES	STRATIGRAPHIC UNIT				
	EAST TEXAS	S. ARKANSAS, N. LOUISIANA	S. MISSISSIPPI	SW ALABAMA, FLORIDA	
TERTIARY	Miocene				
	Oligo.		Frio	Frio	
			Vicksburg	Vicksburg	Tampa
	Eocene		Jackson	Jackson	Jackson
		Yegua	Claiborne Group	Claiborne Group	Claiborne Group
		Cook Mountain			
		Sparta			
		Queen City			
		Reklaw			
	Cartizo				
	Paleo- cene	Wilcox Group	Wilcox Group	Wilcox Group	Wilcox Group
		Midway	Midway	Midway	Midway
	Upper	Navarro	Monroe Nacatoch Gas Rock	Selma Gas Rock	
		Taylor	Ozan/Annona	Selma	Selma
Austin		Austin/Tokio	Eutaw	Eutaw	
Eagleford		Eagleford	Eagleford		
Woodbine Group		Tuscaloosa Group	Tuscaloosa Group	Tuscaloosa Group	
Buda Limestone					
Georgetown					
Lower	Frederickburg				
	Paluxy	Paluxy	Paluxy	Paluxy	
	Glen Rose subgroup	Glen Rose subgroup	Glen Rose subgroup	Glen Rose subgroup	
	James Limestone	James Limestone	James Ls.		
	Pettet	Sligo	Sligo	Sligo	
Travis Peak	Hosston	Hosston	Hosston		
	Cotton Valley Gp.	Cotton Valley Gp.	Cotton Valley Gp.	Cotton Valley Gp.	
	Gilmer Ls.	Gilmer Ls.			
JURASSIC	Upper	Haynesville	Haynesville	Haynesville	
		Buckner	Buckner	Buckner	
		Smackover	Smackover	Smackover	
		Norphlet	Norphlet	Norphlet	
	Middle	Louann Salt	Louann Salt	Louann Salt	
	Werner	Werner	Werner		
TRIAS- SIC	Eagle Mills	Eagle Mills	Eagle Mills	Eagle Mills	

OFFICERS MEETINGS
September 12, 2017
October 10, 2017
November 6, 2017
January 9, 2018
February 6, 2018
<b>March 6, 2018</b>
April 10, 2018
May 8, 2018



# MGS MARCH SPEAKER

*Theresa Woehnker*

## Analysis of the Cotton Valley Group in the Northeastern Mississippi

### Interior Salt Basin

Theresa A. Woehnker, The University of Southern Mississippi

#### Abstract

The Mississippi Interior Salt Basin (MISB) is a major negative structural feature in the interior onshore northeastern Gulf of Mexico. The Cotton Valley Group is an Upper Jurassic–Lower Cretaceous subsurface siliciclastic unit that has been studied extensively in the MISB for the last several decades because of its high potential as a reservoir rock. In this study, the Cotton Valley Group is subdivided into Upper and Lower units. The Upper Cotton Valley is predominately finer grained deltaic sediment, while the Lower Cotton Valley is mostly coarser grained sands from a channel or bar system. The Upper Cotton Valley is further subdivided into an upper Dorcheat Member, and a lower Shongaloo Member, where the boundary between these units correspond to a maximum flooding surface, which can be seen on an electric log. By following an outlined methodology and identifying significant log signatures within the Upper Cotton Valley Group, the various sand units can be classified and correlated across the study area. Preparation of structural and stratigraphic cross sections have been done to display the structural configuration and stratigraphic sequences of the Cotton Valley Group. This study also provides an understanding and comparison of well production within the Upper and Lower Cotton Valley Group. Although most of the traps in the MISB are from salt-related structures, this study attempts to identify potential targets for stratigraphic traps. Since hydrocarbon entrapment is directly related to the percentage of sand to shale, identifying significant changes in percent net sand within the Upper Cotton Valley reservoir may indicate locations of such traps.



# MONTHLY POST

## *Dr. David T. Dockery III RPG*

### GULF COAST GEOCHRONOLOGY

David T. Dockery III, RPG

The Gulf Coastal Plain of the southeastern United States contains a wealth of fossil data, which is useful for correlating formations with the relative ages of the global geologic column, but lacks the igneous and metamorphic rocks with radioisotopes that can give an absolute age in millions of years. Exceptions to this are the occasional ash beds and bentonites with crystals of volcanic origin, which punctuate the sedimentary sequence. In 1986, I received a letter (dated April 3, 1986) from Bill Berggren of Woods Hole Oceanographic Institution requesting help collecting bentonite samples for John Obradovich of the U.S. Geological Survey to determine their radiometric age. Enclosed in the letter were Obradovich's occurrence data sheets for bentonites in Mississippi. We first visited a bentonite bed in the Yazoo Clay at Satartia, Mississippi (figures 1-2), and sent samples to Obradovich.



Figure 1. Bob Merrill examining a bentonite in the Yazoo Clay along the bluff line at Satartia in Yazoo County, Mississippi. Picture (slide 171-17; Image 1685) taken on May 13, 1986.



## MONTHLY POST

*Dr. David T. Dockery III RPG*



Figure 2. Bentonite bed in the Yazoo Clay along the bluff line at Satartia in Yazoo County, Mississippi with a radiometric age of 34.28 million years old (Obradovich and Dockery, 1996). Picture (slide 171-13; Image 1686) taken on May 13, 1986.

On May 20, 1986, Obradovich responded, "I have made a preliminary examination of a small portion of the bentonite that you sent. The biotite is somewhat leached, and I won't know until further work is done whether it will be suitable or not. Nonetheless, the basal level of the bentonite that you sampled is crystal rich with copious sanidine crystals. This is more than I expected and is even better material to work with. I wish that we could be this fortunate with every bentonite, but I've examined enough to know that this is unusual."







# MONTHLY POST

*Dr. David T. Dockery III RPG*

100										
101	Shuqalak-Evans Core									
102		LinnertC14_bioevents								
103		Depth (ft)	Depth (m)	Bioevents (type, age)						
104		845.591		ft (mm)						
105	803.596	42	12.8	200.899	42.0	base Micula prinsii (N, 67.30Ma), base Pseudoguembelina hariaensis (F, 67.30)				
106	800.578	45	13.72	200.144	45.0	base Micula murus (N, 69.00Ma)				
107	795.591	50	15.24	198.898	50.0	base Pseudoguembelina palpebra (F, 71.75Ma)				
108	790.604	55	16.76	197.651	55.0	base Lithraphidites quadratus (N, 69.18Ma)				
109	780.598	65	19.81	195.149	65.0	top Broinsonia parca subsp. constricta (N, 72.02Ma)				
110	775.578	70	21.34	193.894	70.0	top Reinhardtites levis (N, 70.14Ma)				
111	770.591	75	22.86	192.648	75.0	base Gansserina gansseri (F, 72.97Ma), top Tranolithus orionatus (N, 7 top)				
112	760.584	85	25.91		85.0	base function 1 age bioevent regression line			718.590	
113	745.591	100	30.48	186.398	100.0	base Arkhangelskiella maastrichtiana (N, 74.51Ma)				
114	725.578	120	36.58	181.394	120.0	base Globotruncana aegyptiaca (F, 74.00Ma)				
115	575.578	270	82.30	143.894	270.0	top Radotruncana calcarata (F, 75.71Ma)				
116	550.578	295	89.92	137.644	295.0	base Radotruncana calcarata (F, 76.18Ma)				
117	545.591	300	91.44	136.398	300.0	base Uniplanarius trifidus (N, 76.82Ma),				
118	539.576			134.894	442.6	UC15cTP/UC15dTP				
119	515.604	330	100.58	128.901	330.0	top Eiffelithus eximius (N, 75.93Ma)				
120	405.598	440	134.11	101.399	440.0	base Uniplanarius sissinghii (N, 77.61Ma)				
121	384.752			96.188		UC15aTP/UC15bTP				
122	295.591	550	167.64	73.898	550.0	base Ceratolithoides aculeus (N, 79.00Ma)				
123	250.578	595	181.36	62.644	595.0	top Lithastrinus grillii (N, 79.73Ma)				
124	197.668			49.417		UC14cTP/UC14dTP				
125	60.584	785	239.27	15.146	785.0	base Broinsonia parca subsp. constricta (N, 81.38Ma), base Bukryaster hayi (N, 81.25Ma)				
126	52.436			13.109		base C. plummerae				
127	40.604	805	245.36	10.151	805.0	base Broinsonia parca subsp. parca (N, 81.43Ma)		base function 2 age bioevent regression line		
128	20.591	825	251.46	5.148	825.0	presence of Dicarinella asymetrica (F, base at 86.67Ma)				
129	16.096	829	252.83	4.024	829.5	presence of Arkhangelskiella cymbiformis (N, base at 83.20Ma)				
130										
131	561			140.250						



# CURRENT PRICES

## Crude Oil Apr 2018

+ WATCHLIST

CREATE ALERT

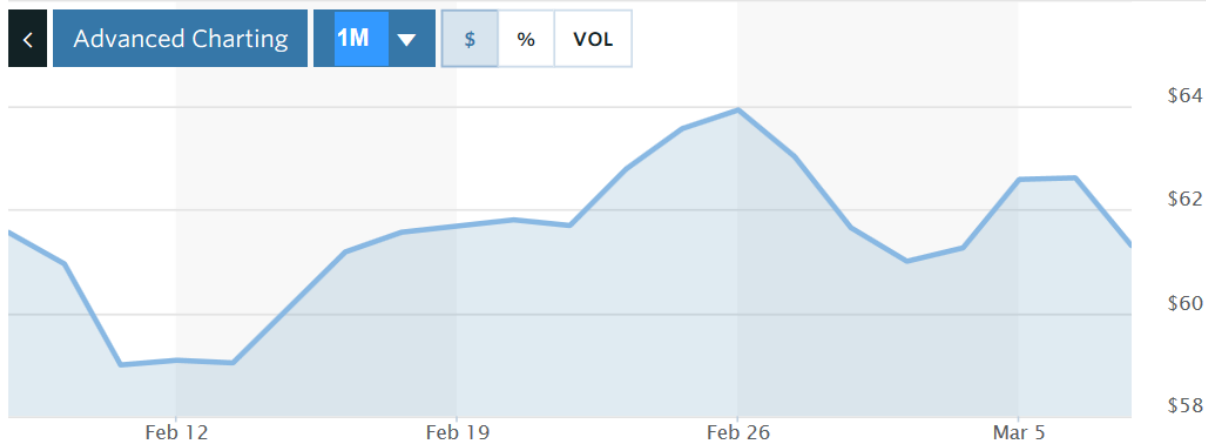
☀ OPEN

Last Updated: Mar 7, 2018 at 3:42 p.m. EST  
- Delayed quote

\$ **61.29**

▼ -1.31 -2.09%

SETTLEMENT PRICE 03/07/18  
**\$61.15**



## Natural Gas Apr 2018

+ WATCHLIST

CREATE ALERT

☀ OPEN

Last Updated: Mar 7, 2018 3:43 p.m. EST  
- Delayed quote

\$ **2.783**

▲ 0.034 1.24%

SETTLEMENT PRICE 03/07/18  
**\$2.777**





# JOB OPPORTUNITIES



## Senior Geophysicist-Geologist-01011916

### Description

Do you have a passion for oil and gas exploration in a variety of geographies, and a desire to live in the Pacific Northwest? As a Senior Geophysicist - Geologist located at Weyerhaeuser's Seattle Headquarters, your primary responsibility will be oil and gas prospect generation and marketing on Weyerhaeuser's 13 million mineral acres, underlying our timberlands, in the continental United States.

In this role, you will have access to an extensive database of 3D and 2D seismic data, along with a sizeable geologic database. You will work with our Senior Reservoir Engineer and Land Manager to generate prospects and promote drilling activity, primarily in the North Louisiana Salt Basin and Gulf Coast regions. This role will require a high degree of proficiency with the preparation of prospect marketing packages, and with presentations to a wide variety of oil and gas companies and conventions. This position will also have the responsibility to assess oil and gas potential in a wide variety of geologic terrains, and to support real estate and timberlands divestitures and acquisitions. This role will require you to use strong interpersonal, communication, and conflict resolution skills as you work to create strategic plans and meet financial objectives for your areas of responsibility.

At Weyerhaeuser we believe trees are a remarkable resource that can, and should, be managed responsibly to make a range of products that meet human needs, while also providing recreation, wildlife habitat, and other important ecosystem benefits. For more than a century, we've been building our reputation as a leader in sustainable forest products.

### Roles & Responsibilities

- Generates oil and gas prospects on Weyerhaeuser lands using our extensive geophysical and geologic data bases.
- Responsible for preparation of marketing displays and prospect presentations, in close collaboration with Oil and Gas Team.
- Collaborates with the Oil and Gas Team to identify potential industry partners, and to promote exploration activity.
- Responsible for expert prospect presentation and promotion to a wide variety of oil and gas companies, investors, and management.
- Responsible for geologic and geophysical evaluation of oil and gas lease offers, in partnership with the Senior Reservoir Engineer and Land Manager.
- Responsible for geologic assessment of oil and gas potential on all Weyerhaeuser lands, including recommendations regarding acquisitions and divestitures.
- Collaborates with Operations Team in evaluating performance and compliance with lease contracts.
- Partners with the Oil and Gas Team for the creation of annual budgets and strategic plans.
- Manages and maintains, along with support staff, extensive geophysical and geologic data sets.
- Responsible for the attainment of annual leasing goals and financial objectives within area of responsibility.
- Displays strong excellent interpersonal, communication and conflict resolution skills.
- Reports to Director, Oil and Gas, Energy and Natural Resources.

### Qualifications

- **Experience:** Ten or more years of experience in the upstream oil and gas industry, with an emphasis on prospect generation and marketing in the North Louisiana Salt and Gulf Coast Basins. Strong geophysical interpretation skills are a prerequisite for this position.
- **Education:** Bachelor's degree (master's degree preferred) in geophysics (or geology with an emphasis in geophysics).
- **Technical Skills:** Ten or more years' experience in prospect generation and marketing. Full working knowledge of Kingdom geophysical software, including attribute analysis, and Petra geologic software is required. Candidates with expertise in salt tectonics will receive preferential consideration.
- **Drive:** We are looking for someone who is eager to learn, engage with subject matter experts, and look for opportunities to improve processes while applying technical expertise to ensure customer needs are met.
- **Communication:** Strong communication and interpersonal skills are essential for working effectively with a diverse set of internal and external clients.

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We sustainably manage forests and manufacture products that make the world a better place. We're serious about safety, driven to achieve excellence, and proud of what we do. With multiple business lines in locations across North America, we offer a range of exciting career opportunities for smart, talented people who are passionate about making a difference.

**We know you have a choice in your career. We want you to choose us.**



# BOLAND SCHOLARSHIP WATCH

Faculty & Students,

Next month the Mississippi Geological Society along with the Boland Scholarship Fund will honor the most outstanding overall students for the 2017-2018 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 seeing you next month for the presentations.

Best Regards,

Matt Caton  
Editor



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# GEOLOGY POST

## ARTICLES, PAPERS or NEWS?

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

I am adding 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



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SEI - Howard Patton**

Thanks for your generous donations to the 2017-2018 Boland Fund

# 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://terraserver.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.



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

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

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

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

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

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<u>Size</u>	<u>Rate/Year</u>	<u>Amt. Remitted</u>
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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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**\*\*This list is updated monthly. Please contact Bill Bagnall if you have questions.**

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Managing Partner  
AAPG Certified Petroleum Geologist  
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# MGS PAST PRESIDENTS

1939-1940	Henry N. Toler	1973-1974	Larry Walter
1940-1941	Urban B. Hughes	1974-1975	W. E. "Gene" Taylor
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 Spyres	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
1972-1973	Charles Barton	2009-2010	Joe Johnson
		2010-2011	Brian Sims
		2011-2012	Stanley King
		2012-2013	Jim Files
		2013-2014	Neil Barnes
		2014-2015	Ezat Heydari
		2015-2016	Jack Moody
		2016-2017	Cragin Knox