# MISSISSIPPI GEOLOGICAL SOCIETY BULLETIN

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January 2017





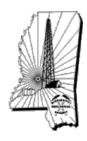
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# PRESIDENT'S LETTER

## Cragin Knox



I hope that everyone survived the holiday season.

At our monthly meeting, scheduled for Thursday, January 12, 2007, we look forward to a presentation from Jamie Harris, Chairman of the Millsaps College Geology Department. Dr. Harris will be presenting his research on the geology of Scotland. Grampian hills, here we come!! Dr. Greg Easson, Professor at the University of Mississippi Department of Geology and Geological Engineering, will be our speaker at the regularly scheduled meeting in February.

I will remind everyone that we promised our colleagues from the U.S.G.S. that we provide them with any questions (and possible answers) on the Tuscaloosa. Please forward those to Neil Barnes and he will pass them on to Paul Hackley.

Cragin Knox

2016-2017 MGS MEETING SCHEDULE			
When	What/Who	Where	
September 8, 2016	Fall BBQ	Jackson Yacht Club-5:30pm	
October 13, 2016	Deep Lakes in Early Mars—Ezat Heydari	River Hills – 11:30am	
November 10, 2016	Tuscaloosa Marine Shale Paul Hackley et al. USGS	River Hills – 11:30am	
	MAPL Christmas Party CANCELLED		
<b>January 12, 2017</b>	Jamie Harris—Millsaps College The Geology of Scotland	River Hills – 11:30am	
February 9, 2017	TBD	River Hills – 11:30am	
March 9, 2017	TBD	River Hills – 11:30am	
April 13, 2017	Boland Scholarship Awards	River Hills – 11:30am	
May 11, 2017	Spring Fling	Jackson Yacht Club- 5:30pm	



Sioux Quartzite from bedrock in South Dakota (left), glacial till in Kansas (middle) and Thompson Creek in Yazoo County, MS (right). Thirty centimeter long scale below.

OFFICERS MEETINGS
September 6, 2015
October 11, 2015
November 8, 2015
<b>January 10, 2016</b>
February 7, 2016
March 7, 2016
April 11, 2016
May 9, 2016



# **JANUARY SPEAKER**

James B. Harris Ph.D.



#### Ancient Mountains and Deep Time: Exploring the Scottish Roots of Geology

James B. Harris Department of Geosciences, Millsaps College

Many of the most influential names (Hutton, Smith, Peach and Horne) and ideas (unconformities, geologic mapping, thrust faults) in the history of the earth sciences can be traced to original work done in Scotland. My talk will discuss the development of ideas on geological processes and the history of modern geological thought through investigation of several classic sites in Scotland.



#### APPLICATION FOR THE JACK SHIRLEY MEMORIAL SIPES

#### SCHOLARSHIP

#### LAFAYETTE CHAPTER

Name:
Address where you reside:
University attending:
Major Study: <sup>1</sup> , Classification <sup>2</sup>
GPA in major:, GPA overall:
What are your post graduation plans?
Do you have a financial need for the Scholarship?Yes,No.  If yes please explain your financial situation. Are you also working part-time or full-time? What other sources of funding do you have (scholarships, loans, STEP grant, etc.)? Note that this scholarship may be given to a student based solely on merit or based on a combination of merit and need.
<sup>1</sup> Should be either Geology, Geophysics, Petroleum Engineering or a closely related field
<sup>2</sup> Freshman, Sophomore, Junior, Senior or Graduate Student (M.S or Ph.D.)
Please submit 3 personal recommendations along with this application. These may not be

students.

SCHOLARSHIP ELIGIBILITY

Scholarship shall be awarded at the Lafayette Chapter's

May meeting. The Foundation Board of Trustees\* shall make selection of the winning

candidate prior to the scholarship award from a listing of all applicants and after

communication with the chairman of the respective department of study of the winning

applicant. Application deadline will be April 23<sup>rd</sup>, 2012.

Applicants must be a currently enrolled upper division or graduate

student in an earth science discipline of Geology, Geophysics, Petroleum Engineering or

closely related field at any accredited University and have maintained a minimum 3.0

grade point average out of a 4.0 scale, both overall and in the major field of study, and

which must be maintained to remain eligible for additional consideration. The applicant

must submit a fully completed Foundation application with three (3) recommendations.

GUIDELINES

1. The applicant should have either a.) A home residence in the

Acadiana area or b.) Be a student of a university in the Acadiana area regardless of

residence.

2. The applicant should have high moral and ethical conduct, be in

Financial need and demonstrate a genuine interest in his or her major field of study.

3. The applicant should include on application a statement of intent for

post graduation study and or work. Applicants who demonstrate a desire to pursue a

career related to their field of study will be preferred.

Please remit to:

SIPES

Attn. Scholarship Committee

P.O. Box 52931

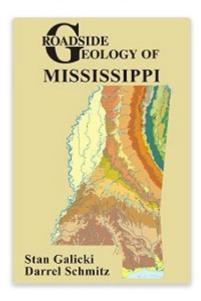
Lafayette, LA 70505

\* Until a Foundation Board can be assembled and approved the current Scholarship

Committee will serve in place of the Foundation board.

# **AVAILABLE NOW**

Books > Travel > United States





#### Roadside Geology of Mississippi (Roadside Geology Series) Paperback –

October 15, 2016 by Stan Galicki (Author), Darrel Schmitz (Author)

Be the first to review this item

#1 New Release (in East South Central US Travel Books

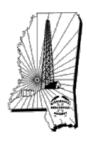
See all formats and editions

Paperback \$24.00

3 Used from \$16.94 5 New from \$17.02

It s a little-known fact, but Mississippi has a volcano. True, it s buried under 2,600 feet of sediment, but it was red hot and active roughly 79 to 69 million years ago, and evidence of its bulging remains are visible in the Jacksonville area. Mississippi emerged along the edge of a massive tear that

Read more



# **IMPERIAL BARREL AWARD**

## Mississippi State University

#### ATTENTION INDUSTRY PROFESSIONALS

If anyone is interested in helping out the MSU IBA team please contact Tim Palmer @ tp780@msstate.edu.

The team meets MWF from 9-10am.
Gulf Coast Data Section will be released January 20th





From left to right:

Tim Palmer, Kalli Dubois, Shannon Vattikuti, Rayford Parnell, and Brenden Lomago.

# **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

Thanks & Regards,

Matt Caton Editor

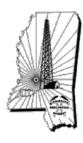


# **OIL & GAS FUTURES**









# **MONTHLY POST**

## Dr. David T. Dockery lll RPG

#### FORENSIC GEOLOGY OF MISSISSIPPI GRAVEL

David T. Dockery III, RPG, and James E. Starnes, RPG

The Gravel Page chapter of John McPhee's (1997) book *Irons in the Fire* contains this: "For sixteen years, I have had on my desk petri dishes full of Platte River pebbles. They call to mind, among other things, kidnappings and murders--"; sound interesting? This line begins a chapter on Forensic Geology with subjects from Sherlock Holmes, to abductions and murders of famous people, to the World War II Japanese balloon bombs, cases all solved by Forensic Geology. A sedimentologist and professor at the University of Minnesota, Kleinspehn, identified McPhee's Platte River pebbles and explained the original bedrock source. Some of the sources were hundreds of miles away from the site the pebbles were collected.

Recently, upon request, Brian Phelps of L. G. Everist, Inc., of Sioux Falls, South Dakota, sent MDEQ's Office of Geology a complimentary sample of Sioux quartzite from their quarries. Oddly enough, this quartzite occurs as cobbles and boulders in the Pleistocene pre-loess gravel deposits situated along the eastern valley wall of the Mississippi River Alluvial Plain (the Mississippi "Delta"). Figure 1 shows, from left to right, Sioux Quartzite from the bedrock of the Everist quarries, Sioux Quartzite from the Glacial Kansan Till of Kansas, and a boulder of Quartzite collected by Starnes from pre-loess gravel in Thompson Creek near Little Yazoo in Yazoo County, Mississippi.



Sioux Quartzite from bedrock in South Dakota (left), glacial till in Kansas (middle) and Thompson Creek in Yazoo County, MS (right). Thirty centimeter long scale below.

This tells a story some 700,000 years ago when glacial ice blocked the original course of the upper Missouri River to Hudson Bay, leading to the capture of the upper Missouri by the Mississippi River. It was only at this time that ice rafted Sioux Quartzite boulders and cobbles could make their way to Mississippi. Once the ice flows melted, Sioux Quartzite was dropped into the ancient Mississippi River gravel.



# **BOLAND SCHOLARSHIP WATCH**

Faculty & Students,

The school year is halfway through 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 2016-2017 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.

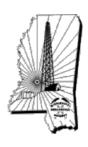
Best Regards,











# **2016-2017 BOLAND FUND DONATIONS**

**Maurice Birdwell** Joe White **Kaci Myers & Family Bob Schneeflock Ruth Johnson Melissa Perry Katie Perry Katelin Thompson** Jessica Wagner & Family Jena Giardina & Family Ty Wade Reagan Byrd J. D. Mallory **Mai Truong Dave Cate** Jacob Pngetti **Clayton Johnson** 

Thanks for your generous donations to the 2016-2017 Boland Fund

# **GEO LINK POST**

USGS TAPESTRY OF TIME AND TERRAIN <a href="http://tapestry.usgs.gov">http://tapestry.usgs.gov</a> 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 <a href="http://www.tnris.state.tx.us/digital.htm">http://www.tnris.state.tx.us/digital.htm</a> 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 <a href="http://store.usgs.gov/b2c\_usgs/b2c/start/(xcm=r3standardpitrex\_prd)/.do">http://store.usgs.gov/b2c\_usgs/b2c/start/(xcm=r3standardpitrex\_prd)/.do</a> go to this webpage and look on the extreme right side to the box titled TOPO MAPS <a href="https://doi.org/10.2007/DOWNLOAD">DOWNLOAD</a> 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.

<u>http://antwrp.gsfc.nasa.gov/apod/astropix.html</u> 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 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

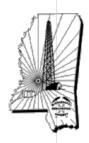
http://terra.nasa.gov/gallery/ More here

<u>www.ermapper.com</u> They have a great free downloadable viewer for TIFF and other graphic files called ER Viewer.

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

<u>http://terrasrver.com/</u> 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/gpnf/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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#### MEMBERSHIP APPLICATION / RENEWAL FORM

# MISSISSIPPI GEOLOGICAL SOCIETY P.O. BOX 422, JACKSON, MISSISSIPPI 39205-0422

#### 2016-2017

Membership year is June through May

New Membership (\$20/yr)	Renewal (\$20/yr)	Student (FREE)	Associate (\$20/yr)
Boland Scholarship Fund	l Donation \$	Total Amount Enclos	sed \$
Last Name:	First:		MI:
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Office Phone:	Home Phone:	FAX	X:
E-mail Address:			
College/University Attended:			
Degree(s) Obtained and Year	(s) Awarded:		
Professional Associations, Certifications, & Licenses:			

#### MGS ADVERTISING ORDER FORM

#### **September 2016 – May 2017**

#### I. Bulletin Advertisements:

Size	Rate/Year	Amt. Remitted
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):

Type of Web Page Ad	Rate/Year	Amt. Remitted
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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Managing Partner
AAPG Certified Petroleum Geologist
Reg. Prof. Geol. Ark. La. Miss. Tex

2043 Oak Ridge Drive Pearl, MS 39208 601.936.6939

mnbirdwell@comcast.net

#### Joe R. White, Jr.

Petroleum Geologist

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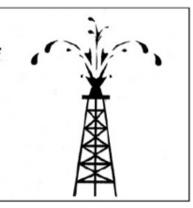
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601-948-5279 dcate@pruet.com

Joseph H. McDuff Geologist

351 Chapel Loop Mandeville, LA 70471 985.845.9430

jhmcduff@charter.net





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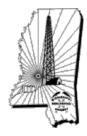
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1963-1964	William A. Skees	1999-2000	Stanley King
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1971-1972	Larry Boland	2008-2009	Lisa Ivshin
1972-1973	Charles Barton	2009-2010	Joe Johnson
17/2-17/3	Charles but for	2010-2011	Brian Sims
		2011-2012	Stanley King
		2012-2013	Jim Files
		2013-2014	Neil Barnes
		2014-2015	Ezat Heydari
		2015-2016	Jack Moody