# MISSISSIPPI GEOLOGICAL SOCIETY BULL EFFICIENCY

#### Volume 65

**No. 6** 

February 2017

**OIL & GAS RESEARCH AND EDUCATION** Dr. Greg Easson, University of Mississippi

THE JACK SHIRLEY MEMORIAL SIPES SCHOLARSHIP

THE TEACHER-FRIENDLY GUIDE TO THE EARTH SCIENCES Dr. David T. Dockery, RPG, Office of Geology



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# **PRESIDENT'S LETTER**

### Cragin Knox



I hope that everyone's team was a winner in Super Bowl LI (mine was).

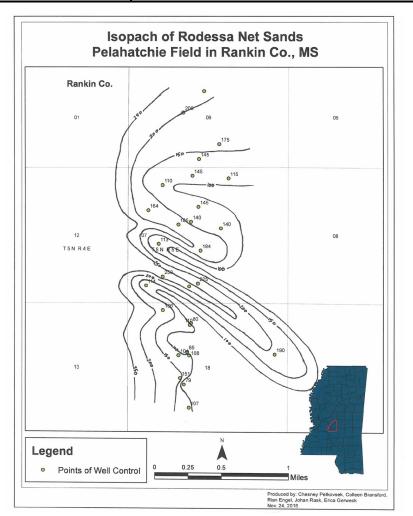
At our monthly meeting, scheduled for Thursday, February 9, 2017, we look forward to a presentation from Greg Easson, Professor at the University of Mississippi Department of Geology and Geological Engineering and Director of the Mississippi Minerals Research Institute. Dr. Easson will present on "Oil and Gas Research and Education at the University of Mississippi.

Special thanks to Dr. Jamie Harris for his presentation on the Geology of Scotland at our January meeting.

I will again 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

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			
January 12, 2017	Jamie Harris—Millsaps College The Geology of Scotland	River Hills – 11:30am		
February 9, 2017	Dr. Greg Easson Oil & Gas Research and Education	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		



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



### **FEBRUARY SPEAKER** Dr. Gregory L. Easson



#### Oil & Gas Research and Education at the University of Mississippi

#### Dr. Gregory L. Easson

Dr. Easson will be discussing recent education and research activities at the University of Mississippi related to oil and gas. In particular he will present the results of a graduate level course in Advanced Petroleum Geology in which a group of graduate student collected data and performed analysis to re-evaluate the Pelahatchie Field in Rankin County, MS. Their goal was to generate three new prospects for drilling and present their results to potential 'investors'. The presentation will also briefly discuss some of the graduate level research in progress as well.

Gregory (Greg) Easson became the MMRI's third director on January 4, 2010. Greg obtained his Ph.D. in 1996 from the University of Missouri at Rolla. He also has his Master of Science degree from the University of Missouri and his Bachelor of Science degree from Southwest Missouri State University. Recently, Greg has served as a professor in the University of Mississippi's Department of Geology and Geological Engineering and served as Department Chair from January 2007, until he accepted the position at MMRI. Prior to his academic work at the University of Mississippi, he worked for the U.S. Geological Survey and the Missouri Department of Natural Resources. His research at Ole Miss has focused on the various aspects of remote sensing and geographic information system development. He is also responsible for the establishment of the University of Mississippi Geoinfomatics Center.

#### 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:, GP	A 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 fulltime? 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

 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.

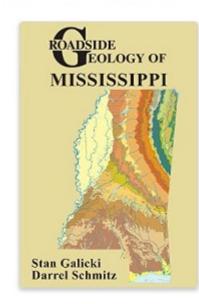
 The applicant should have high moral and ethical conduct, be in Financial need and demonstrate a genuine interest in his or her major field of study.

 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

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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





Mississippi State University

### **ATTENTION INDUSTRY PROFESSIONALS**

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

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**









### The Teacher-Friendly Guide to the Earth Sciences of the Southeastern US 2<sup>nd</sup> Edition

#### David T. Dockery III, RPG, MDEQ Office of Geology

If you are interested in Earth Science education, you will be glad about this. The Paleontological Research Institution in Ithaca, New York, with support from the National Science Foundation, has published its second edition of *The Teacher-Friendly Guide to the Earth Sciences of the Southeastern US* as part of a larger guide on Earth Sciences for the United States (Figure 1). It is available from the link below.

http://www.geology.teacherfriendlyguide.org/

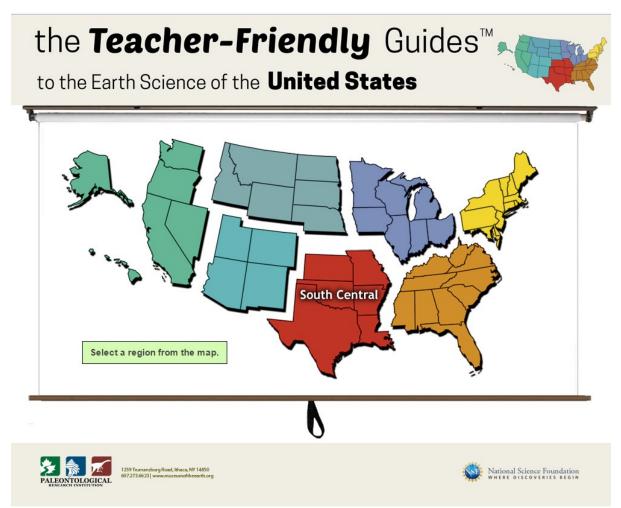
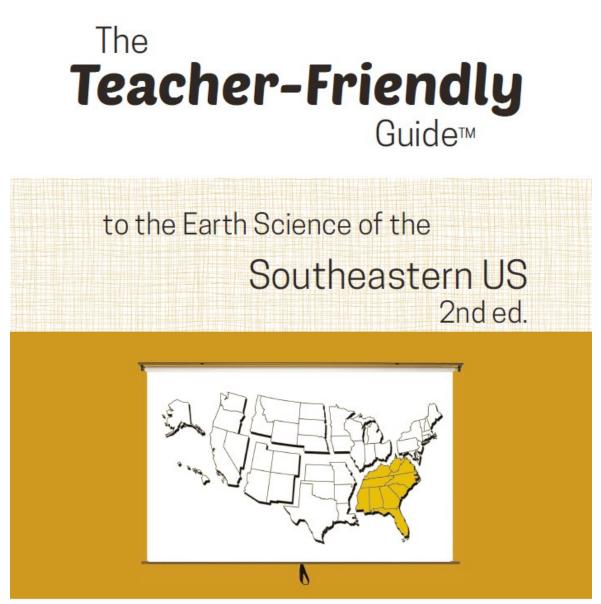


Figure 1. The Teacher-Friendly Guides Website.



Downloads include a "Low-resolution complete Guide" (Figure 2) and "Highresolution by section:," which includes: an introduction entitled "Big Ideas" and twelve chapters as follows: Geological History, Rocks, Fossils, Topography, Mineral Resources, Energy, Soils, Climate, Earth Hazards, Fieldwork, Appendix, and Glossary. Other downloads include Maps, Resources, and Image credits. The volume has beautifully designed chapters for the young and old with excellent illustrations.



Edited by Andrielle N. Swaby, Mark D. Lucas, & Robert M. Ross

Figure 2. Low-Resolution Complete Guide.



Figure 3 is a portion of page 126, showing the Mississippi Petrified Forest.

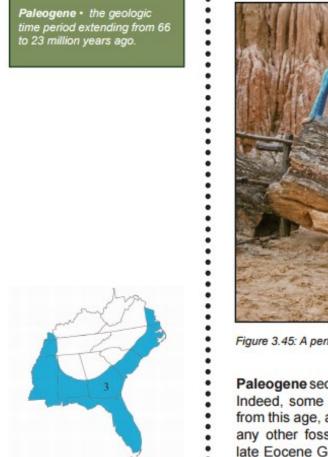




Figure 3.45: A permineralized log from the Mississippi Petrified Forest near Flora, Mississippi.

Paleogene sediments of the Coastal Plain are frequently extremely fossiliferous. Indeed, some deposits are among the most famous fossil beds in the world from this age, and have been studied since the early 1800s, longer than almost any other fossil-bearing sediments anywhere in America. For example, the late Eocene Gosport Sand in southwestern Alabama contains fossils of more than 500 species of mollusks. Fossil mollusks—mainly clams and snails—of



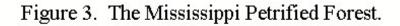
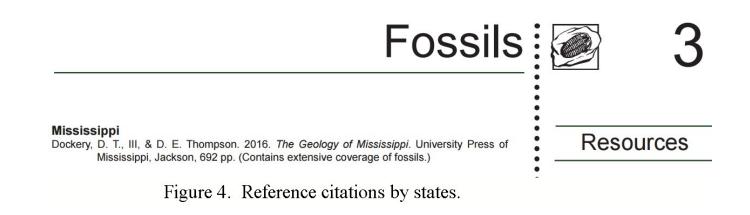




Figure 4 is one reason I am partial to this wonderful resource, the citation of *The Geology of Mississippi*.





# **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 **Bob Schneeflock Kaci Myers & Family Ruth Johnson** Melissa Perrv Alicia Perry **Katie Perry Katelin Thompson Jessica Wagner & Family** Jena Giardina & Family Ty Wade J. D. Mallory **Mai Truong Reagan Byrd Dave Cate Jacob Pngetti Clayton Johnson** William and Elizabeth Patterson **Bill and Judy Boland Brenda Kirkland Tony Stuart** I. Meade Huffort

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

# **GEO LINK POST**

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

<u>http://www.geographynetwork.com/</u> 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 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 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.

<u>http://www.fs.fed.us/gpnf/volcanocams/msh/</u> 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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**Stanley King** 

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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	Donation \$	Total Amount Enclo	osed \$
Last Name:	First:_		MI:
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Office Phone:	Home Phone:	FA	X:
E-mail Address:			
College/University Attended:			
Degree(s) Obtained and Year	(s) Awarded:		
Professional Associations, Ce	rtifications, & 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** 

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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 Reg. Prof. Geol. Ark. La. Miss. Tex

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#### Joe R. White, Jr.

Petroleum Geologist

8505 Dogwood Trail Haughton, LA 71037 Cell. 318-423-9828 Hm. 318-949-3539 Available for Consulting AAPG CPG #5580 MS RPG #0097 LA CPG #345 Jwhite1362@aol.com Joerjrw@gmail.com





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1948-1949	Robert D. Sprague
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1972-1973	Charles Barton

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1997-1998	George B. Vockroth
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1999-2000	Stanley King
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2002-2003	Aaron Lasker
2003-2004	John G. Cox
2004-2005	James E. Starnes
2005-2006	Todd Hines
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2010-2011	Brian Sims
2011-2012	Stanley King
2012-2013	Jim Files
2013-2014	Neil Barnes
2014-2015	Ezat Heydari
2015-2016	Jack Moody