

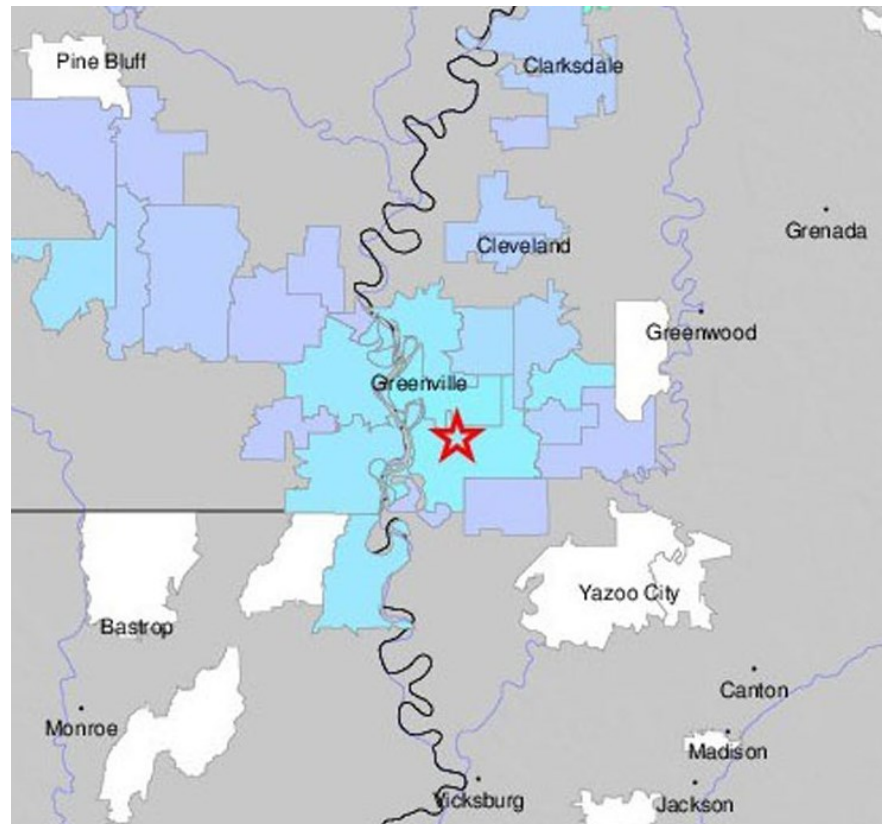
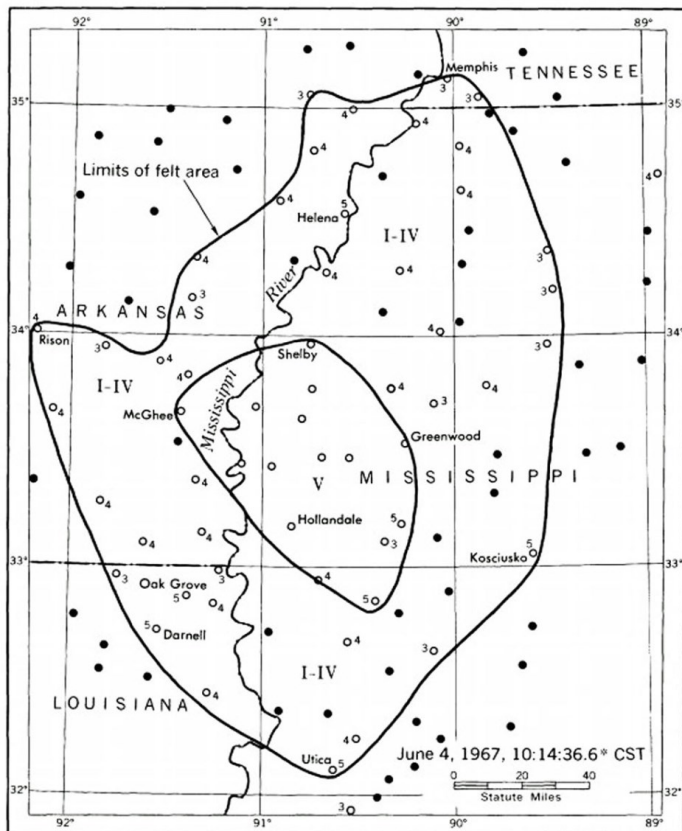
MISSISSIPPI GEOLOGICAL SOCIETY

eBULLETIN

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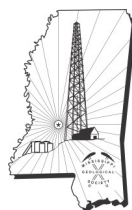


COUPLING GROUNDWATER FLOW MODELING WITH GEOPHYSICAL MAPPING AND HYDROLOGIC MONITORING TO ASSESS WATER AVAILABILITY IN THE MISSISSIPPI ALLUVIAL PLAIN

Jeannie Barlow, Ph.D. USGS

SOIL LIQUEFACTIONSUSCEPTIBILITY MAPS AND THE FELT AREA OF THE JANUARY 8, 2019, GREENVILLE EARTHQUAKE

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



www.missgeo.com

2018-2019 MGS MEETING SCHEDULE

When	What/Who	Where
September 13, 2018	Fall BBQ	Jackson Yacht Club-5:30pm
October 11, 2018	Ezat Heydari and Kiana McFadden	River Hills – 11:30am
November 8, 2018	ENERGY & POWER: SUPPLY & DEMAND Todd “Ike” Kiefer	River Hills – 11:30am
	Merry Christmas	
January 10, 2019	Dr. James B. Harris—Millsaps College	River Hills – 11:30am
February 7, 2019	Jeannie Barlow, Ph.D. USGS—Hydrologist	River Hills – 11:30am
March 7, 2019	TBD	River Hills – 11:30am
April 11, 2019	Boland Scholarship Awards	River Hills – 11:30am
May 9, 2019	Spring Fling	Jackson Yacht Club– 5:30pm

OFFICERS MEETINGS

September 11, 2018
October 9, 2018
November 6, 2018
January 8, 2019
February 5, 2019
March 5, 2019
April 9, 2019
May 7, 2019



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PRESIDENT'S LETTER

Dr. David T. Dockery III, RPG



David T. Dockery III, RPG

U.S. Geological Survey Hydrologist Dr. Jeanie Barlow will be our luncheon speaker so be sure to join us this Thursday, February 7, for the noon Mississippi Geological Society meeting at River Hills Club. Jeannie is a Millsaps College graduate; she returned recently to Millsaps as an adjunct professor to teach a course on Hydrology. There is a lot going on in Delta aquifer studies (see aerial study picture composite), and she should be able to give us the inside scoop.

In my job as Director of MDEQ's Office of Geology, I have the privilege of promoting and facilitating our work and our competent staff who get the job done. We do more than our routine assignments. One example is a 35-year run (on my tenure) of participation in the annual meetings of the Mississippi Academy of Sciences (MAS). For a stretch of that time, David Thompson (Surface Geology Division) was also a regular participant. Still we were just participants and not the movers and shakers (MAS Officers) that bore the burden of putting the annual meeting together. For this reason, it was a great surprise when David Thompson and I received two of the three MAS annual awards for 2019. Our participation was notice even though we were part of the relatively small Geology and Geography Division, one of thirteen science divisions in MAS. We represented a division of 30-40 participants in last year's annual meeting of some 800 scientists. The following is a draft of Page 12 of the 2019 *Journal of the Mississippi Academy of Science* with the awards mentioned.



U.S. Geological Survey high-resolution airborne geophysical survey of the Mississippi River Valley Alluvial Aquifer.

Dudley Peeler Award Contribution to the Mississippi Academy of Sciences

David Dockery III, Ph.D.

State Geologist



David T. Dockery III, Clinton, Mississippi, is a registered professional geologist and the Surface Geology Division Director for the Mississippi Department of Environmental Quality. His work has appeared in *Mississippi Geology*, *Palaios: Nature, Palaeontologie, and Compass*, among others. To say that Dr. Dockery has a passion for geology is an understatement. According to Dr. Dockery his interest in geology started when he was a mere child of five years old when he started to collect his first rocks and shells. He earned his BS degree in petroleum geology from Mississippi State University, a MS degree from the University of Mississippi and his Ph.D. from Tulane University. Dr. Dockery began working for the Mississippi Geological Survey during the summers of his undergraduate and Master's degree. After finishing his Master's degree he was appointed as Chief of the Surface Geology Division for the Mississippi Office of Geology in 1978. Dr. Dockery held that position until June 2017. In July of 2017, he was selected as the Director of MDEQ, Office of Geology and State Geologist. He has taught courses in Invertebrate Paleontology, Physical Geology, Forensic Geology, The Geology of Mississippi, and Environmental Geology. He has developed two textbooks a 685-page textbook with over 1000 figures related to the Geology of Mississippi, and a second 379 page textbook with over 800 figures on Environmental Geology. In addition to the textbooks he has also written eight additional book titles related to identifying rocks and fossils throughout Mississippi. He has named numerous new species and has had 13 species named in his honor. He is a long time member of the Mississippi Academy of Sciences dating back to the late 1980's and has not missed an annual meeting. He has served the division of geology as Chair and Vice Chair and has presented and foster the growth of the division since 1990. He has significantly contributed to the field of Geology in our state and within our academy. His passion for Life Among the Rocks has impacted the education of all those studying within the field of Geology.

Horizon Lifetime Achievement Award

David Thompson, RPG

Minerals Manager
Weyerhaeuser Company



Dr. David E. Thompson, Jackson, Mississippi, is a registered professional geologist that is currently the minerals manager for Weyerhaeuser Company. He received his BS degree from Mississippi State University in Petroleum Geology. He has served as an Environmental Health Specialist for the Mississippi State Department of Health and has a Geologist for the Mississippi Department of Environmental Quality (MDEQ), Office of Geology. Before serving in his current role, he held the position of supervising geologist in the Surface Geology Division at the Mississippi Department of Environmental Quality. During his career with the MDEQ he has produced seventy-six 7.5 minute quadrangle maps at a scale of 1:24,000 and the Holly Springs Geologic Map at a scale of 1:100,000. Each of 7.5 minute quadrangle maps covers an area of 49 to 70 square miles. The maps show and name prominent natural features in detail that is useful for engineering, local recreational planning, and land management planning. His published works have appeared in *Geological Society of America*, *Society for Sedimentary Geology*, *Journal of the Mississippi Academy of Sciences*, and *Mississippi Geology*, among others. In addition, he has co-authored the *Geology of Mississippi* and *Mississippi Environmental Geology* textbooks

with Dr. David Dockery. He is also a long time member of the Academy and has been an active member in the Geology Division since the early 1990's.



JANUARY SPEAKER

Jeannie Barlow, Ph.D.



Dr. Jeannie Barlow, Hydrologist

Lower Mississippi Gulf Water Science Center

Jackson, Mississippi

Jeannie Barlow is currently serving as the Assistant Director for Water Availability and Use Studies at the U.S. Geological Survey Lower Mississippi-Gulf Water Science Center, an area which covers 5 states from Arkansas to Alabama. She received a B.S. in geology from Millsaps College in Jackson, MS, a M.S. from the University of Arizona's Hydrology and Water Resources Program in Tucson, AZ, and completed her doctoral degree from Mississippi State University's Department of Wildlife, Fisheries, and Aquaculture. She has spent a large part of her career studying the role of groundwater and surface-water exchange on water quantity and quality in water stressed regions.



FEBRUARY SPEAKER

Jeannie Barlow, Ph.D.

Coupling groundwater flow modeling with geophysical mapping and hydrologic monitoring to assess water availability in the Mississippi Alluvial Plain

Wade H. Kress¹, Jeannie Barlow², Randall J. Hunt³, and Emily J. Pindilli⁴

¹U.S. Geological Survey, Lower Mississippi-Gulf Water Science Center, Nashville, TN

²U.S. Geological Survey, Lower Mississippi-Gulf Water Science Center, Jackson, MS

³U.S. Geological Survey, Wisconsin Water Science Center, Middleton, WI

⁴U.S. Geological Survey, Science and Decisions Support Center, Reston, VA

The Mississippi Alluvial Plain water availability project is in its third year of data collection and model development in support of a water availability and valuation decision support tool for the region. Years 1 and 2 of the project focused on assessing existing datasets and groundwater-flow models to help increase efficiency of geophysical mapping efforts and hydrologic monitoring networks. These field data, in turn, will help improve the next generation groundwater-flow model. This third year focuses on the development of a series of supporting models and automated data services designed to update the groundwater-flow model on regular intervals. A range of approaches is targeted, including water budget models to estimate recharge, surface-water model to supply baseflow estimates, irrigation water-use model to provide estimated pumping rates, and a geophysical model to inform the hydrogeologic framework. Stakeholder forecasts from the updated groundwater-flow model are improved as uncertainty decreases. By coupling the modeling, mapping, and monitoring within an iterative framework, an improved representation of alluvial aquifer water resources will be developed.



JANUARY SPEAKER

Jeannie Barlow, Ph.D.

The final outcome of this work is an encompassing economic-physical system approach that allows stakeholders to assess societal and system costs and benefits associated with water use from the MAP aquifer. The economic analysis will incorporate both supply (e.g., how a reduction in groundwater availability might affect agricultural revenue) and demand-side effects (i.e., how people's behavior, such as crop switching, might influence the other parts of the system). The economic-physical system approach forms the basis of a decision support system, where economic and physical system analyses will provide the basis for informed cost-benefit trade-offs in the region.



NEWS

MS Gem and Mineral Society

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Mississippi Gem & Mineral Society

176 Tazan Avenue, Florence, Mississippi 39073-8720

- Home
- 2019 Gem, Mineral, Fossil & Jewelry Show in February
- Meetings
- Directions
- Lapidary School
- Membership
- Field Trips
- Classes and Newsletter
- Affiliations – AFMS & SFMS
- MGMS History – Some Highlights
- Contact Us




Home

The Mississippi Gem and Mineral Society (MGMS) was established to promote knowledge and the enjoyment of activities related to the earth sciences. MGMS activities focus on rocks, minerals, fossils, lapidary arts, and jewelry making.

It's amazing how diverse this rock hobby is. There's something for every interest and its a hobby that the entire family can enjoy together.

Visitors are always welcome to join us at one of our regular meetings held at our MGMS Lapidary School. We're located just a few miles south of the capitol city of Jackson at 176 Tazan Avenue, Florence, Mississippi.

Mississippi Gem & Mineral Society
.... Florence, Mississippi





CURRENT PRICES

Crude Oil Mar 2019

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VOLUME: 23.4K



Marketwatch





AAPG HEDBERG
Hydrocarbon
Microseepage: Recent
Advances, New
Applications, and
Remaining Challenges

18-20 June 2019 • Houston, TX

Abstract Submission Deadline 20 January, 2019

In June 2019 in Houston, we plan to bring together 70-90 international experts to review the state of knowledge of hydrocarbon microseepage.

For more information regarding abstract guidelines and topics visit AAPG website, www.aapg.org and look under Hedberg Research Conferences.



MONTHLY POST

Dr. David T. Dockery III RPG

SOIL LIQUEFACTION SUSCEPTIBILITY MAPS AND THE FELT AREA OF THE JANUARY 8, 2019, GREENVILLE EARTHQUAKE

David T. Dockery III and Barbara Yassin

In a Public Broadcasting Service (PBS) interview, Betsy Mason and co-author Greg Mill (Figure 1) explained the importance of old paper maps in the digital age as published in their *book All Over the Map: A Cartographic Odyssey* published by the National Geographic Society. One of their map examples was how geologic maps of the San Francisco area were matched with the destruction pattern of the 1906 earthquake. This led to the discovery that “the geology that underlies a structure is a big factor in the risk that it has (for collapsing).” Soil Site Class Maps based on shear-wave velocity data are now important resources for first responders following a major earthquake. Earthquake waves travel at high velocities through rigid bedrock but slow in poorly consolidated material such as alluvial fill.

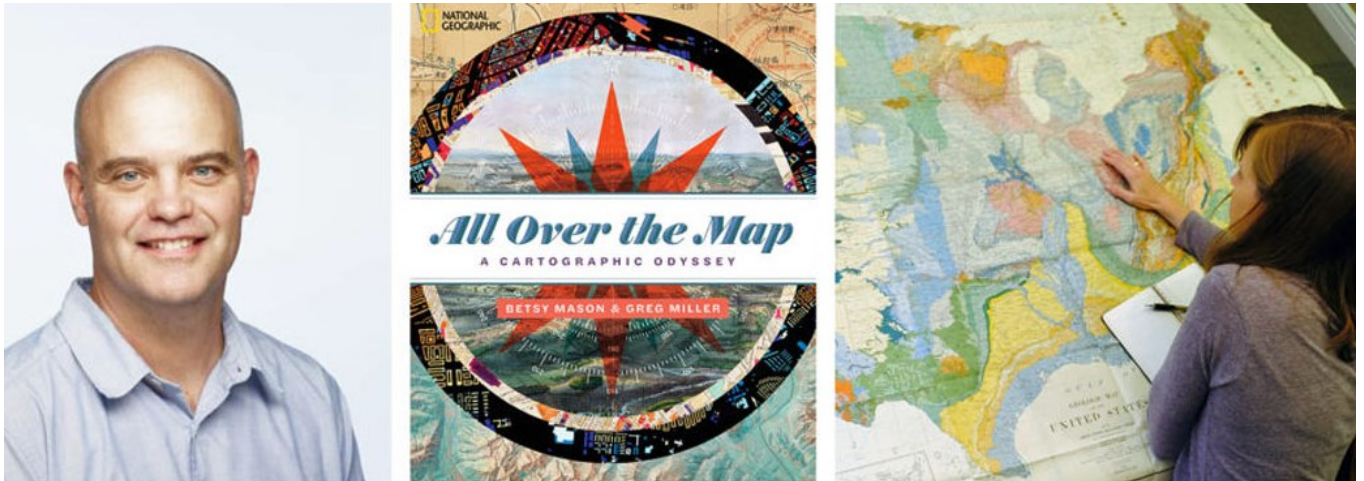


Figure 1. Greg Mill and Betsy Mason, featuring their book *All Over the Map*. Betsy is viewing the Geologic Map of the United States (from PRN).



MONTHLY POST

Dr. David T. Dockery III RPG

Accompanying the velocity change is a significant amplification in ground shaking. Figure 2 is a Soil Site Map for the eight states of the Central United States Earthquake Consortium (CUSEC) bordering the New Madrid Seismic Zone. Class A represents surficial bedrock with high seismic velocity and corresponding low ground shaking. At the bottom of the scale, Class F surficial material (such as alluvial fill) has a very low seismic velocity and highly amplified ground shaking.

Central U.S. Earthquake Consortium State Geologists' Soil Site Class Map

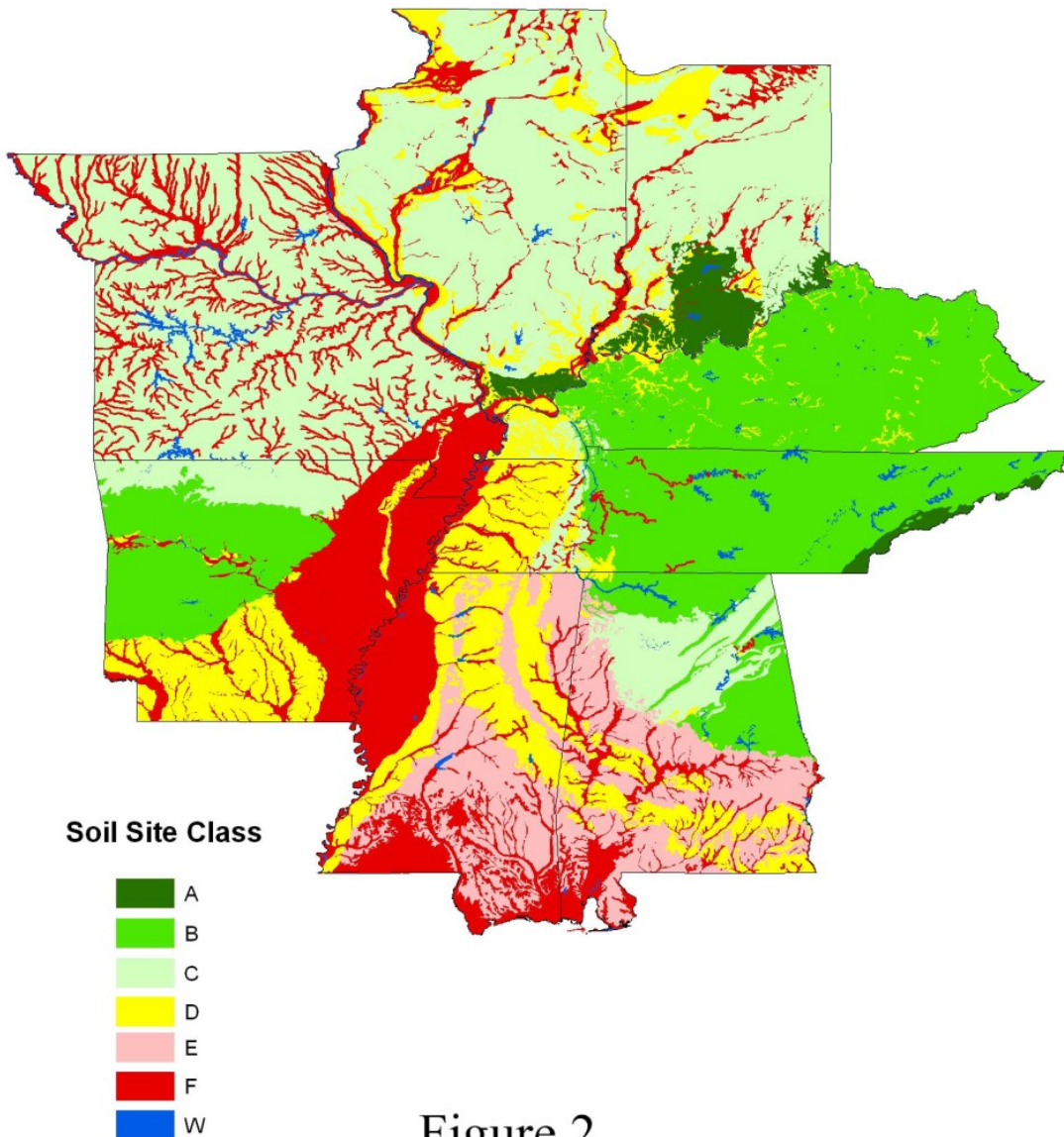


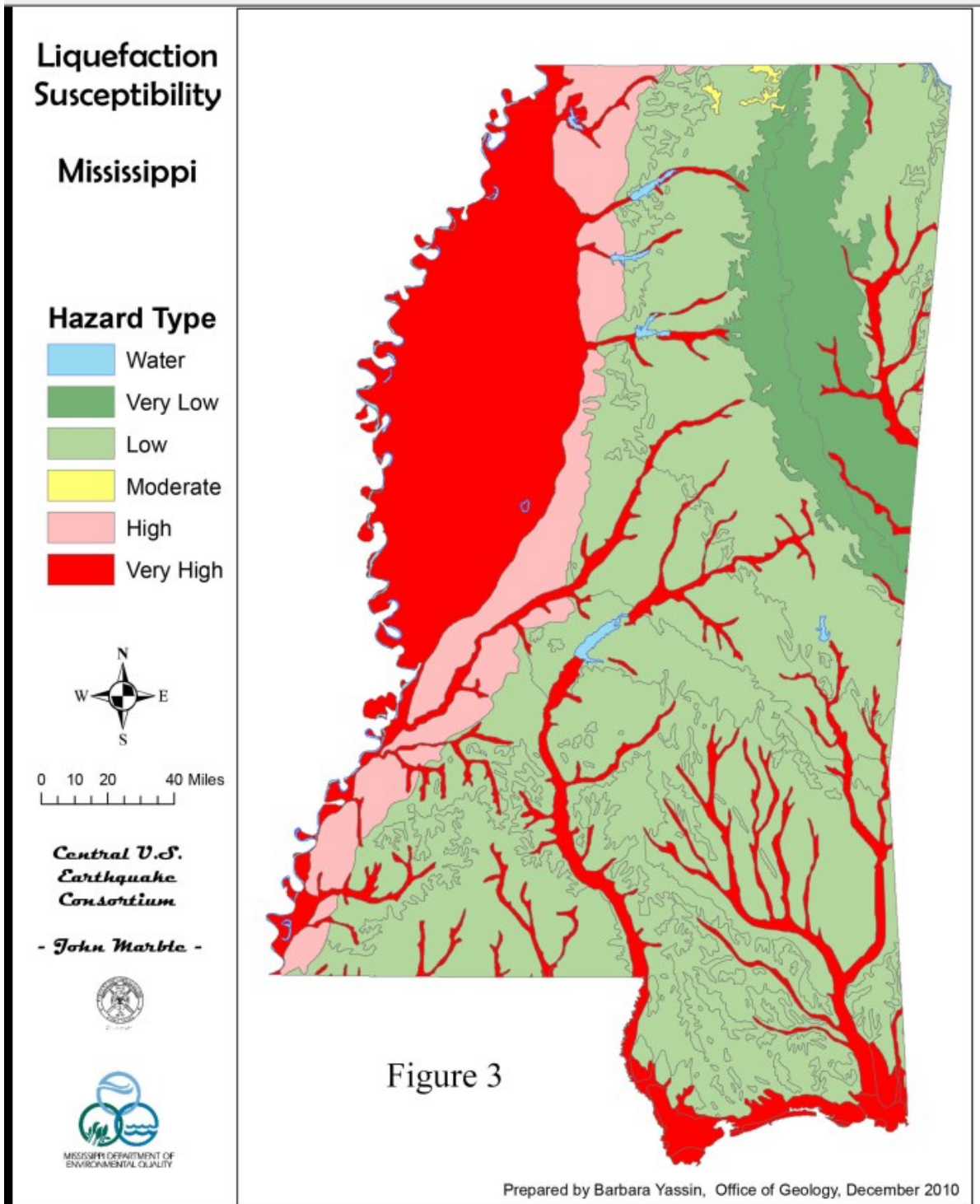
Figure 2



MONTHLY POST

Dr. David T. Dockery III RPG

Another earthquake hazard with alluvial fill and its associated shallow water table is liquefaction. Amplified earthquake shaking separates sand grains in the water-saturated fill, turning a shallow aquifer into a liquid sand slurry. This transformation of alluvial fill creates sand blows (wet sand spewing in geysers at the surface) and foundation failures. Figure 3 is a Liquefaction Susceptibility map for Mississippi. Alluvial soils are coded red for "Very High" liquefaction susceptibility.





MONTHLY POST

Dr. David T. Dockery III RPG

The felt area for the January 8, 2019, magnitude 3.7 Greenville earthquake (Figure 4) was confined to the Class F soil of the Mississippi River Alluvial Plain on the CUSEC Soil Site Map, the soil with the highest ground-shaking hazard (Figure 5).

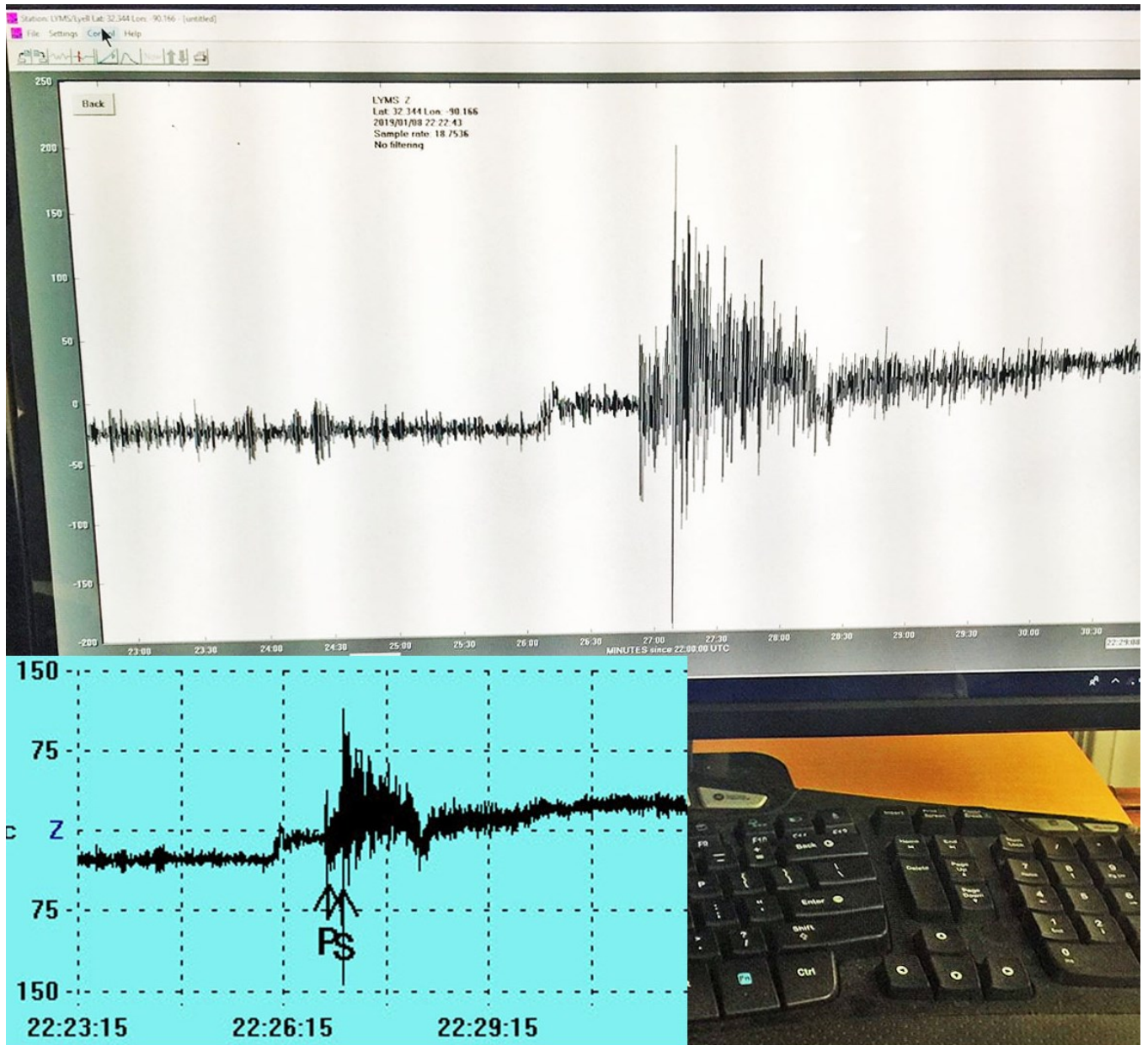


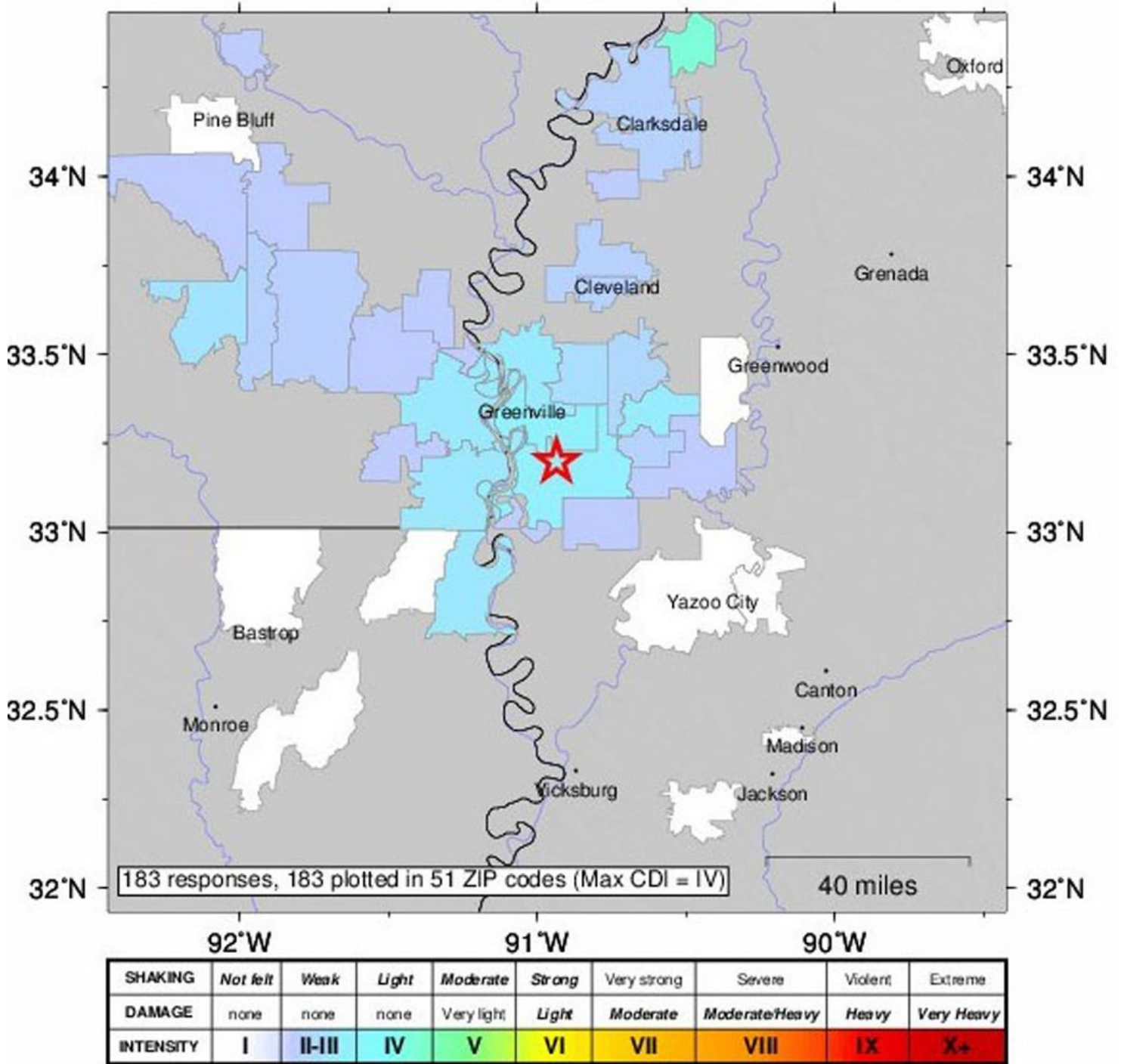
Figure 4. January 8, 2019, Greenville earthquake as recorded on the seismograph of Louis Lyell in north Jackson, with processed seismogram inset.



MONTHLY POST

Dr. David T. Dockery III RPG

Jan 8 2019 10:26:33 PM UTC 33.1982N 90.9342W M3.7 Depth: 16 km ID:nm60224502



Processed: Wed Jan 9 20:15:17 2019 vmdyfi1

Figure 5. USGS Community Internet Intensity Map, Mississippi.



MONTHLY POST

Dr. David T. Dockery III RPG

This modest felt area, not extending beyond Class F soil, is possibly due to the great depth of the earthquake at 16.4 kilometers (10.2 miles). The June 4, 1967, magnitude 3.8 Greenville earthquake at 10:14 on Sunday morning was felt in four states as shown in Figure 6. My sister-in-law Ida and her husband John Marshall experienced the 1967 earthquake while attending a church service in Grenada, Mississippi. They told of a rolling sensation moving the church building and shaking the pews.

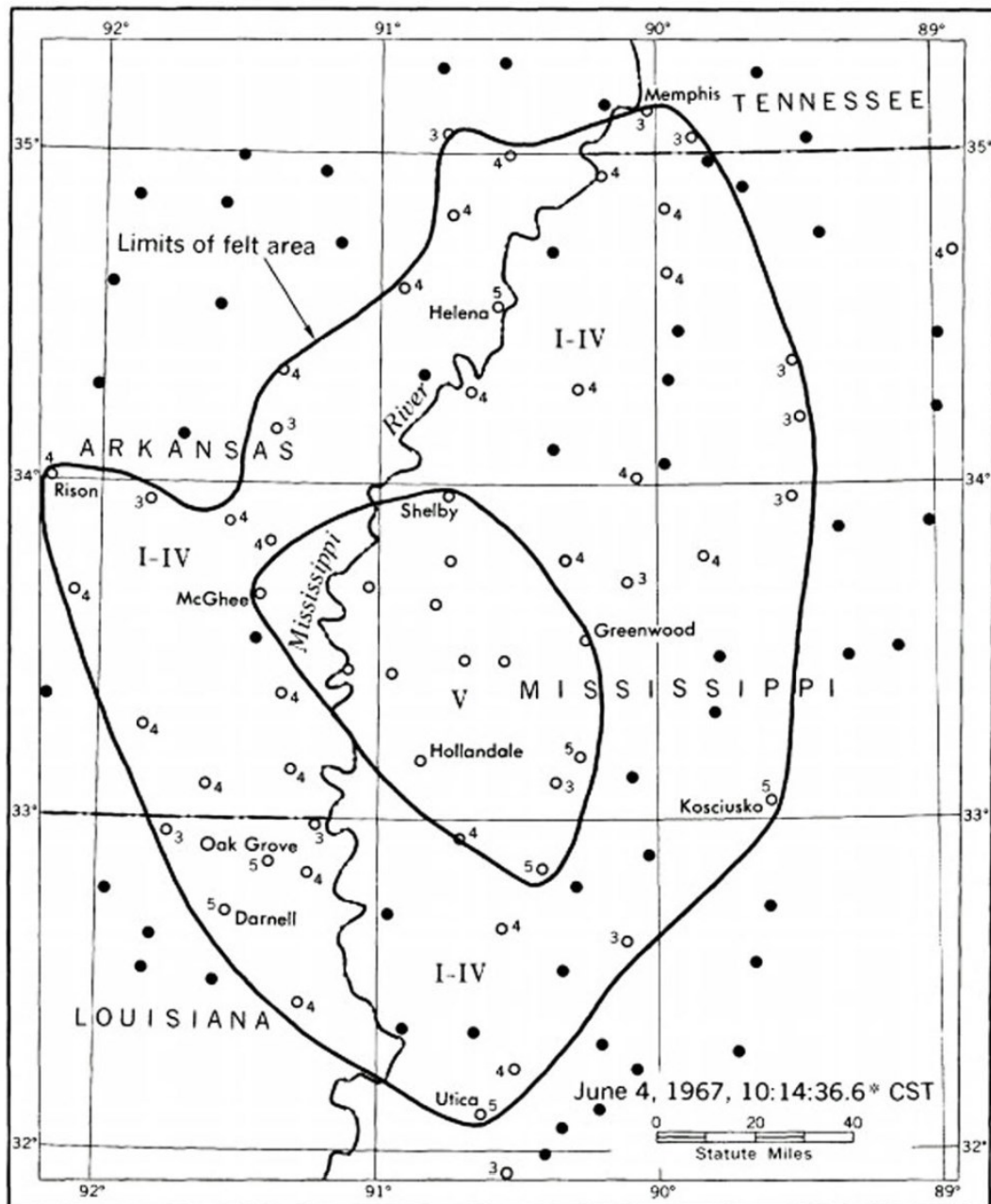


Figure 6. Area affected by Greenville, Mississippi, earthquake of June 4, 1967.



69th Annual Gulf Coast Association of Geological Societies 2019 GCAGS Convention

October 23-25, Marriott Westchase, Houston

Hosted by the Houston Geological Society and the GCSSEPM

General Chair: Mike Erpenbeck, Vice Chair: Larry Bartell, GCAGS President: Deborah Sacrey

Submit an Oral or Poster Abstract by March 4, 2019

Convention Themes

- 1. Unconventional GOM Mudrocks and Shale Plays**
Austin Chalk, Eagle Ford, Haynesville, Eaglebine and other plays
- 2. Onshore GOM Conventional Plays, Discoveries, and Case Studies**
Louisiana and Texas Wilcox, Miocene, Yegua, and other trends
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- 5. Structural Geology, Gravity, and Magnetic Case Studies**
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- 6. Gulf Coast Environmental Geology**
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- 7. Petroleum Engineers and Geologists Working Together for a Better Answer**
Estimating Reserves, GeoModeling, Economics, Waterflooding, and Permeability Enhancement
- 8. Seismic Technology and Salt Tectonics**
Depth Migration, Subsalt Processing, AVO, Seismic Attributes, and Shallow Hazards
- 9. Understanding Big Data and Computer Aided Interpretation**
Machine Learning, Visualization, Augmented Intelligence, and Pattern Recognition
- 10. The Road to Business Success**
Deals, Financing, Starting Own Company, Young Professional Careers, and Consulting

2019 Convention Oral and Poster abstracts of up to 300 words must be submitted to the Technical Chair, Linda Sternbach, by March 4, 2019.

Send abstract and contact info in a Word document to linda.sternbach@gcagshouston.com.

Authors will receive notification of acceptance by March 25, 2019

If you'd like to publish in the *GCAGS Journal*, the peer-reviewed journal of Gulf Coast geoscience, submit an extended abstract of at least 600 words, including 1-2 representative figures, to the *GCAGS Journal* Editor, Robert Merrill (rmerrill@catheart.com) by December 15, 2018.

www.gcagshouston.com



BOLAND SCHOLARSHIP WATCH

Faculty & Students,

It's now February 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 2018-2019 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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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

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 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.

<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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2018-2019

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

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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
		2017-2018	David Hancock