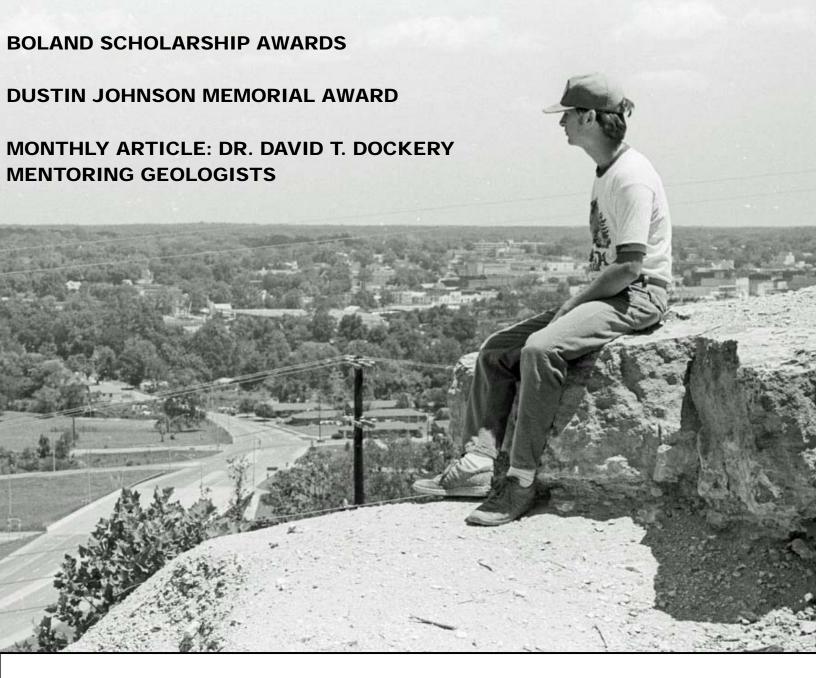
MISSISSIPPI GEOLOGICAL SOCIETY BULLETIN

No. 8 April 2015





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PRESIDENT'S LETTER

Ezat Heydari



Greetings:

Two of the most wonderful functions of the Mississippi Geological Society are Boland Scholarship Award and Dustin Johnson Memorial Award. Activities associated with both awards are headed by Dave Cate of Pruet Oil and Gas. The dedication and time spent by Dave to select candidates are truly admirable. The Boland Award is given to four outstanding undergraduate students majoring in Geology, one from each of the four geology-granting universities in the State. The Dustin Johnson Memorial Award is give to one student who has overcome major obstacles and has succeeded in Geology.

The process of selecting award winning students is lengthy. It involves trips by the committee members to each school for interviews. This is followed by reviews of all applicants and the final selection.

These awards are avenues for MGS to rejuvenate its ties with the State's academic institutions. It is also a process by which MGS becomes familiar with the ever changing Geoscience education in Mississippi.

Most importantly, the Boland and Johnson awards provide the only opportunity when all stake holders in the Geology of Mississippi (academia, state agencies, oil and gas operators, and MGS) come together. We need to celebrate this occasion. It is a time for exchange of ideas for advancement of Geoscience in the State.

MGS welcomes the honorable faculty representatives, student recipients of the Boland and Johnson awards and their families, and other guests attending the event. We look forward to a wonderful day. Enjoy and get the most out of it. The opportunity of this type comes only once a year.

Lastly, MGS invites all graduate students majoring in Geology to present a poster about their research at our Spring Fling next month. This would be a good opportunity for students to interact with Mississippi's Geological Community, exchange ideas, and get some feed back.

I look forward to see you Thursday.

Regards,

Ezat

| 2014-2015 MGS MEETING SCHEDULE | | | | |
|--------------------------------|--|----------------------------|--|--|
| When | What/Who | Where | | |
| September 11, 2014 | Fall BBQ | Jackson Yacht Club-5:30pm | | |
| October 9, 2014 | John Allen Tuscaloosa Marine Shale | River Hills – 11:30am | | |
| November 13, 2014 | Carl Fiduk Tectonics and Depositional Episodes of the GOM | River Hills – 11:30am | | |
| December 5, 2014 | MAPL Christmas Party and Dance | Duling Hall - 7pm | | |
| January 8, 2015 | Frank Vincent Shallow Oil "Re-Discovery" at Washington Field | River Hills – 11:30am | | |
| February 12, 2015 | David T. Dockery III, RPG Structural Geology of MS and Oil and Gas Fields | River Hills – 11:30am | | |
| March 12, 2015 | Dr. Ezat Heydari Sedimentary Rocks of Gale Crater, Mars | River Hills – 11:30am | | |
| April 9, 2015 | Boland Scholarship Awards | River Hills – 11:30am | | |
| May 14, 2015 | Spring Fling | Jackson Yacht Club- 5:30pm | | |



OFFICERS MEETINGS September 4, 2014 October 7, 2014 November 11, 2014 January 6, 2015 February 10, 2015 March 6, 2015 April 7, 2015 May 12, 2015



BOLAND SCHOLARSHIP

Faculty & Students,

It is time for the Mississippi Geological Society along with the Boland Scholarship Fund to honor the most outstanding overall students for the 2014-2015 year.

This month, the Boland Scholarship is awarding 1 student from each institution a check that rewards their hard work and dedication to the Geosciences and their community.

Congratulations to this years winners:

Theresa Woehnker—Millsaps College
Patrick B. Lazzarino— University of Southern Mississippi
Regan Byrd—Mississippi State University
Pshani Herath—University of Mississippi

DUSTIN JOHNSON MEMORIAL AWARD

The Dustin Johnson Memorial Award

In addition to the Boland Scholarship Awards, the MGS has established another award to be given each year to recognize a student for extraordinary achievements and determined efforts in the pursuit of a Geoscience career outside the strict Boland Scholarship scholastic requirements . This award is to be known as **The Dustin Johnson Memorial Award** in honor of Dustin Johnson, a Geoscence major at Mississippi State University, who lost his life in 2013 just short of receiving his degree.

Congratulations to this years winner:

Ashley M. Ritter—University of Mississippi









MGS SPRING FLING

POSTER SESSION

Next month MGS would like to invite you to our annual SPRING FLING and POSTER SESSION. Professors and students please submit a copy of your abstract to the MGS editor:

mcaton@tellusoperating.com



Poster Session @ 2014 Fall BBQ



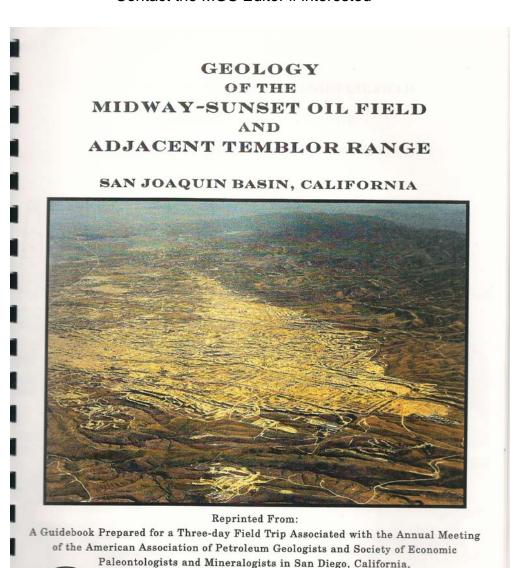
GEOLOGY POST

Robert Gaston

MGS Members,

I am in the process of going through things from the past. There was a time when I worked a good bit of California Geology. This is an excellent guidebook for someone who is interested in California geology or someone who wants to make a trip out there and do a field trip on their own. If you know of anyone in our MGS group who might be interested, please let me know and I will give this to them. It is full of geologic maps, cross sections, thin sections and reports along with the field trip information. Thanks.

Contact the MGS Editor if interested



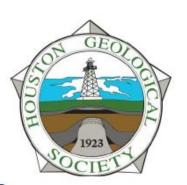
May 17-19, 1996 Edited By

TOR H. NILSEN ALBERT S. (BUDDY) WYLIE, JR. GLENN J. GREGORY **GB75**



CALL FOR PAPERS

65th GCAGS Convention September 19-22, 2015 • George R. Brown center Houston, Texas





New Oil and Gas Discoveries
Un-Conventional Plays
Development Field Studies
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Salt Tectonics and Traps
Mexico and Caribbean Plays
Geophysical Technology
Gulf of Mexico Deepwater
Environmental Geology
Coastal Geology and Surface Impact
Geology-Geophysics-Engineering
Portfolio Management
Climate/ Public Awareness Issues

To participate in the 2015 GCAGS Convention Oral and Poster presentations

An abstract of up to 250 words should be submitted no later than December 13, 2014 to Technical Program Chair, Linda Sternbach (linda.sternbach@gmail.com).

After notification of acceptance on January 20, 2015, authors submit extended abstracts (1-2 pages) or full papers up to 12 pages to the GCAGS Transactions by February 20, 2015 to GCAGS Transactions Editor, Steve Levine.

Full instructions for manuscript submissions will be posted online at www.gcags2015.com.

Publish your work in the upcoming GCAGS Journal !! (a new peer-reviewed journal of Gulf Coast Geoscience).

Instructions: An extended abstract of at least 600 words, including 1–2 representative figures, Should be submitted by December 2, 2014 to Journal Editor, Barry Katz (BarryKatz@chevron.com).

After acceptance, a full manuscript must be submitted by March 24, 2015.

Full instructions for manuscript submissions will be posted online at www.gcags2015.com.



David T. Dockery III, RPG

MENTORING GEOLOGISTS

David T. Dockery III, RPG

This mentoring story began in the summer of 1978. I had worked as summer help for the Mississippi Geological Survey as a "sunbeam" for nine years while attending undergraduate and graduate school. On July 1, 1978, State Geologist and Mississippi Geological Survey Director Bill Moore hired me as a full-time employee. That same summer Bill hired his neighbor's son, Randy Bissell, as a summer-time employee. Randy's assigned work was largely in the front offices and in the library, but in slow moments he would check on what was going on in the rest of the building. I was 28 years old, working on a paleontology bulletin for the Clarke County area, and needed a scientific illustrator. Randy was 18 and shared that he had just graduated high school with vocational drafting training. His work assignment soon changed to that of an illustrator of fossil clams. Randy's published illustrations included one Eocene bivalve (published in 1980 as MGS Bulletin 122, Figure 35) and 92 of Oligocene bivalves of the Vicksburg Group (published in 1982 as MGS Bulletin 123). Randy also helped with the field work for these bulletins, posing as scale in outcrop pictures (Figure 1). He also drafted several maps and well log sections.

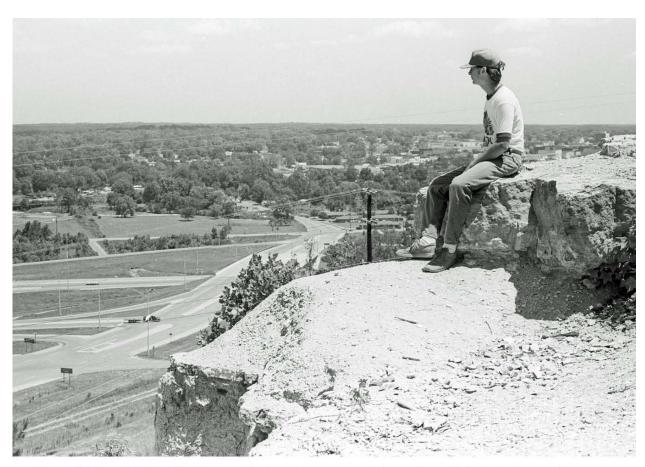


Figure 1. Randy Bissell siting on the basal sandstone ledge of the Tallahatta Formation on Mt. Barton overlooking Meridian, Mississippi, as illustrated in Mississippi Bureau of Geology Bulletin 122, Figure 6. Picture was taken on May 25, 1979.



David T. Dockery III, RPG

In 1983, when Mary and I visited French paleontologists to collect fossils in France, our friend and host, picked up my first two books on Mississippi fossils and said, "We knew you could do this." Then he picked up the bulletin on the bivalves of the Vicksburg Group, filled with Randy's illustrations, and said, "But, we didn't know you could do this! We were blown away" (or something like that). Randy's art work raised my profession stock among my French colleagues (Figure 2).

LOWER OLIGOCENE BIVALVIA OF THE VICKSBURG GROUP

89

Figure 2. Randy Bissell's scientific illustrations of the morphology of fossil venerid bivalves of the Vicksburg Group as printed on page 89 of Mississippi Bureau of Geology Bulletin 123.



David T. Dockery III, RPG

After the first summer with the Mississippi Geological Survey, Randy started as a pre-architecture major, intent on minoring in geology at the University of Southern Mississippi in the fall semester of 1978. In the spring he met Dawn Stewart, his wife-to-be, in Geology 101 laboratory. He changed his major to geology. Soon after meeting Dawn, Randy and I took a field trip to collect Cretaceous mollusks in northern Mississippi. The locality we were collecting was world class for fossil mollusks with original shell material. We dug a pit while collecting the shells—Randy said it was like digging his own grave. Then a snake egg rolled out from one wall. While we contemplated that, the mama snake slithered out into the pit with us. The snake was banded red, yellow, and black. It was either a deadly coral snake or a scarlet king snake, but we couldn't remember the code: "red on yellow can kill a fellow, but red on black is a friend of Jack." Thinking that we were too far north for coral snakes, I grabbed the snake and put it in one of our cloth fossil-collecting bags and tied it tight. We left for Jackson in Randy's car with fossils and a bagged snake. After a long drive and a rush to make it on time for a date with Dawn, Randy and I forgot about the snake when we parted company. Shortly after, Randy called me in a panic, the snake bag was empty, and he was to pick up Dawn for a date within the hour. Fortunately, the snake didn't show up on the date and was never found.

Randy attended graduate school at Oklahoma State University and received his Master's Degree geology in 1984. He worked for Exxon from 1984 to 1999 in a variety of assignments from South Texas production, Gulf of Mexico deep-water research, and Nigeria deep-water exploration, among others. In 1999, Randy accepted a job with Headington Oil Company in Corpus Christi, and purchased working interest in the areas he prospected. Early on in his new job, Randy recognized a Vicksburg opportunity that proved to be a very successful field. Seventeen years on, Randy is now the geoscience advisor to Headington Energy Partners assigned to acquire, explore, support, and develop prospects in deep South Texas and the Permian Basin.

Randy tells a story of sitting on one Texas Vicksburg wildcat picking bugs with a paleontologist. The paleontologist announced that *Textularia warreni* was present in the sample and that the well had officially penetrated the top of the Vicksburg. Then, he told Randy, "I guess you don't know *everything* about the Vicksburg." Randy answered, "Well, I've drilled several great Vicksburg wells." That gave the paleontologist pause. Then, Randy said, "I've been to the type locality of the Vicksburg Group. Have you been to the type locality of the Vicksburg Group?" The paleontologist said, "No," and was duly silenced. Randy could have gone further and said, "I illustrated a book on fossils from the Vicksburg Group - The Vicksburg is a friend of mine."

Randy and Dawn have two children in college, a son majoring in Industrial Technology and daughter majoring in Art Education (Figure 3).

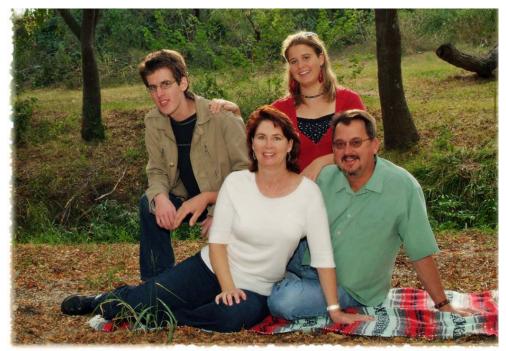


Figure 3. Dawn and Randy Bissell in front and Stewart and Emily Bissell in back. Picture was taken in 2011 by Brenda Miles.



David T. Dockery III, RPG

They reside in Corpus Christi where Randy teaches Sunday school and is certified as a High-Performance Driver's Education instructor for the Porsche Club of America. Randy sent me an email in 2013 that said he was sending something by mail that I would like. When the package arrived, it contained a large commemorative coin honoring the Vicksburg National Military Park. The accompanying letter dated April 9, 2013, read:

"Some several weeks ago, I became aware that the U.S. Mint had been issuing 5 ounce commemorative silver coins for U.S. National Parks. I also discovered that Vicksburg Military Park was one of the 2011 series.

My associate was able to obtain several of these for me, and I would like to utilize two of them to "commemorate" aspects of my relationship with the Vicksburg. At the earliest point in my geology career, you introduced me to the Vicksburg. Very few South Texas prospectors can stand up in a meeting and say that they've seen the Vicksburg type locality at Vicksburg and the Jackson type locality at Jackson! I had seen those before I was even a geology student.

Today, my house was paid for with the Vicksburg and my kids are in college because of the Vicksburg. I cannot help but express my gratitude to you for your kindness and instruction in my formative years. You introduced me to the Vicksburg, and I want you to have one of these to remember that point where our lives came together.

Headington Oil ended up with 450 acres upon which I drilled about 20 Vicksburg wells in 2003-2005. Peak gas production exceeded 50 million cubic feet/day and the field has cumulated about 50 billion cubic feet of gas and 1 million barrels of oil to date.

The Vicksburg changed my life. You did too.

Thank you...Randy Bissell"

I responded, "The commemorative coin is nice (Figure 4). The letter is priceless."



Figure 4. Five ounce silver coin commemorating Vicksburg National Military Park given to David Dockery by Randy Bissell in April of 2013 in a personal commemoration of their work together on the Vicksburg Group of Mississippi.



Power Plays: Geothermal Energy in Oil and Gas Fields

Conference Workshop May 18-20, 2015 SMU Campus in Dallas, Texas

The SMU Geothermal Lab is hosting our 7th international energy conference and workshop, *Power Plays:* **Geothermal Energy in Oil and Gas Fields**, on May 18-20, 2015 on the SMU Campus.

Over 200 individuals in field operations, project development, technology, finance, engineering and resource assessment from the geothermal, oil, gas and renewable energy sectors are expected to attend.

The conference goal is to connect attendees with the knowledge, technical expertise and equipment options they need to successfully transition existing oil or gas fields into an electricity-generating system. This year our focus broadens to include geophysical exploration topics.

Topics of discussion include power generation from flare gas, waste-heat, and geothermal fluids, along with research updates on induced seismicity, onshore and offshore thermal maturation, Play Fairway Analysis and basin modeling. SMU researchers will present results from their Fall 2014 Eastern North American Margin Community Seismic Experiment (ENAM CSE) research. In addition, equipment such as one-well systems, desalination and other new technologies will be explored.

A pre-conference workshop on May 18th, A Primer on Geothermal Energy Resources, provides a focused introduction for those new to the geothermal and energy communities. Four Continuing Education Credits are provided. The workshop is limited to the first 50 registrants to provide a classroom atmosphere with ample time for questions and answers.

The conference details are:

Name: Power Plays: Geothermal Energy in Oil and Gas Fields

Date: Workshop May 18; Conference May 19-20, 2015

Location: SMU Campus, Dallas, Texas

Website: http://www.smu.edu/Dedman/Academics/Programs/GeothermalLab/Conference

Contact: Maria Richards, mrichard@smu.edu, 214-768-1975



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

AAPG Update <u>View Online</u>



AAPG Wiki Announces June 2015 Wiki Write Off Competition!

AAPG's inaugural Wiki Write Off competition ended in December 2014 with the Universitas Gadjah Mada AAPG student chapter winning \$500 for its entry, "Well log analysis for reservoir characterization."

Your chapter could be next!

The rules are simple. Your group submits five original wiki articles to AAPG's Wiki by 30 June. Tell us about it. The AAPG Wiki Advisory Board and Senior Associate Editor Board will select the best article, and the winner will be announced in July 2015.



Wiki Write Off Competition

AAPG's Wiki

Previous Entries



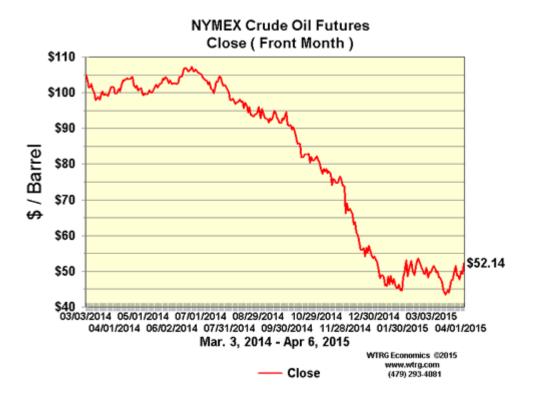
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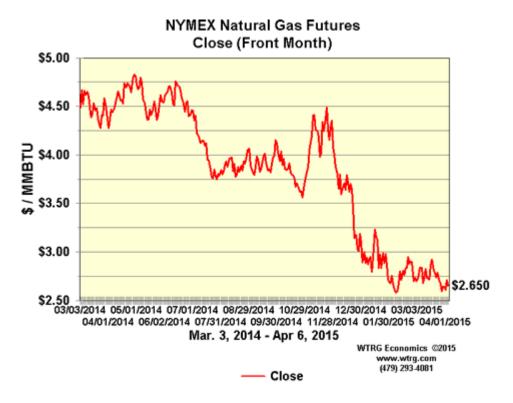
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Mark Wyatt

* This list is updated on a monthy basis.

Please contact Bill Bagnall if you have any questions.

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 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.

<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

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://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/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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2014-2015

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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 | \$ |

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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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MGS PAST PRESIDENTS

| 1939-1940 | Henry N. Toler | 1973-1974 | Larry Walter |
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| 1940-1941 | Urban B. Hughes | 1974-1975 | W. E. "Gene" Taylor |
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| 1942-1943 | Dave C. Harrell | 1976-1977 | P. David Cate |
| 1943-1944 | K. K. "Bob" Spooner | 1977-1978 | Sarah Childress |
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| 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 |
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| 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 |
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| 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 |
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| 1965-1966 | Sankey L. Blanton | 2002-2003 | Aaron Lasker |
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| 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 |