MISSISSIPPI GEOLOGICAL SOCIETY BULLETIA

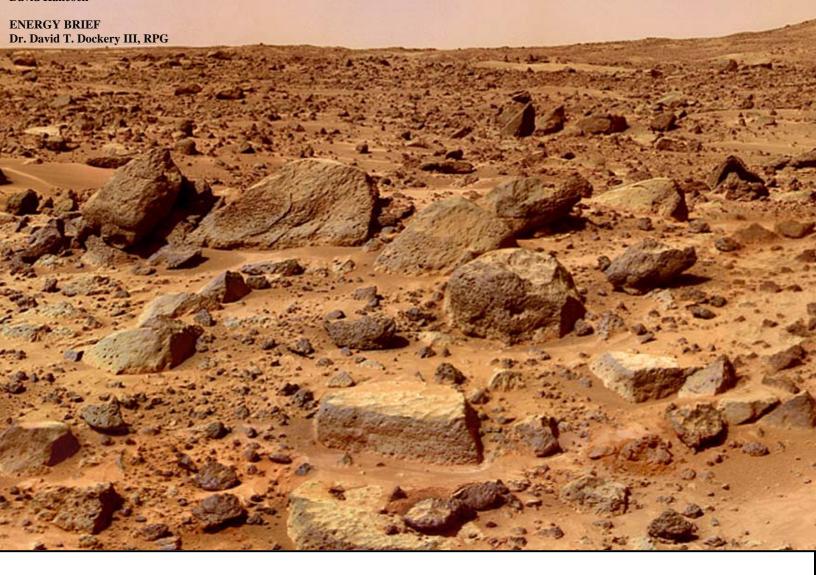
Volume 64

No. 6

February 2016

FEBRUARY SPEAKER Ezat Heydari Mars Mission Update

PAST & PRESENT PROSPECTS Parker Creek Prospect David Hancock





www.missgeo.com



MGS 2015-2016 BOARD OF DIRECTORS

Officers

President 1st Vice President	Jack Moody Craigin Knox	Independent Waggoner	jsmpoststate@gmail.com Cragin.knox@waggonereng.com	(601) 942-5025 (601) 355-9526
2nd Vice President	Joe Johnson	Spooner Petroleum	jjohnson@spoonercompanies.com	(601) 898-7444
Treasurer	Bill Bagnall	BLM	wbagnall@blm.gov	(601)-977-5417
Webmaster	Steve Walkinshaw	Vision Exploration	steve@visionexploration.com	(601) 607-3227
Advertising	Matt Caton	Tellus Operating	mcaton@tellusoperating.com	(601) 898-7444
Editor	Matt Caton	Tellus Operating	mcaton@tellusoperating.com	(601) 898-7444
		Boland Scho	olarship	
President	Jack Moody	Independent		
Secretary	Dave Cate	Pruet Oil		(601) 948-5279
Members	Neil Barnes	Independant		
	Tony Stuart	Venture Oil & Gas		(601) 428-7725
	James Starnes	DEQ		
	Bob Schneeflock	Geodigital Consulting	g	(601) 853-0701
		Honorary Me	mbership	
Chairman	Charles H. Williams, J	Jr.Vaughey & Vaughey		(601) 982-1212
Members	E. Ralph Hines Jerry Zoble	Moon-Hines Independent MCS Papers	ontativos	(601) 572-8300
		MGS Represe	eniaiives	
AAPG GCAGS	Maurice Birdwell Danny Harrelson	Milbird Resources U.S. Army R&D		(601) 936-6939 (601) 634-2685

Other

Environmental	John Ryan	Allen	(601) 936-4440
Historian	Stanley King	Independent	(601) 842-3539

	2015-2016 MGS MEETING SCHEDI	JLE
When	What/Who	Where
September 10, 2015	Fall BBQ	Jackson Yacht Club-5:30pm
October 8, 2015	Todd Keifer Energy & Power in MS	River Hills – 11:30am
November 12, 2015	Danny Harrelson Canals & River Cutoffs as a tactic during Vicksburg Campaign of American Civil War	River Hills – 11:30am
December 2015	MAPL Christmas Party—CANCELLED	
January 14, 2016	Lawrence R. Baria Relatively Large Mid-Ramp, Highstand, Microbialite Patch and Fringing Reefs, A New Exploration Play for South Alabama	River Hills – 11:30am
February 11, 2016	Ezat Heydari - Mars Mission Update	River Hills – 11:30am
March 10, 2016	Dr. John Mylroie Paleokarst Reservoirs: Deposition to Dissolution	River Hills – 11:30am
April 14, 2016	Boland Scholarship Awards	River Hills – 11:30am
May 12, 2016	Spring Fling	Jackson Yacht Club- 5:30pm

Price Summary				
	2014	2015	2016	2017
WTI Crude Oila (dollars per barrel)	93.17	48.67	38.54	47.00
Brent Crude Oil (dollars per barrel)	98.89	52.32	40.15	50.00
Gasoline ^b (dollars per gallon)	3.36	2.43	2.03	2.21
Diesel ^c (dollars per gallon)	3.83	2.71	2.29	2.59
Heating Oil ^d (dollars per gallon)	3.72	2.65	2.16	2.43
Natural Gas ^d (dollars per thousand cubic feet)	10.94	10.37	9.85	10.23
Electricity ^d (cents per kilowatthour)	12.52	12.65	12.65	13.02
a West Texas Intermediate. b Average regular pump pri c On-highway retail. d U.S. Residential average.				



PRESIDENT'S LETTER

Jack Moody



Do you remember after the price collapse in 1986 that bumper stickers were seen asking for another oil boom and promised not to screw it up? Well we had it on such a scale due to private sector innovation and citizen owned mineral rights that a major paradigm shift has occurred. Our world view has switched from one of diminishing resource abundance to that of plenty of oil for some time to come. The US actually gets blamed in the press for causing this current flood of oil production as if we were the rogue nation who had the audacity and ability to discover and to produce our own natural resources. Not long ago the US was not allowed to sell to the world market so our production increases were a matter of our own internal affairs. I believe I've read that basic economies are built on two forms of wealth building, development of natural resources and creating goods that people are willing to buy. We can all remember not long ago that the leadership in America said we had to get rid of manufacturing and pursue a cleaner economy which was supposed to be the Promised Land. Our policies opened our doors to labor markets so much cheaper than ours that there was no way we could compete. And Donald Trump has made famous what poor trade terms we ended up with. The point being we surrendered to a large degree our ability to make products to sell that people would be willing to buy. So there goes one of the two fundamental abilities to create wealth. It was that one, strong manufacturing, which helped build the strong middle class so famous in the US and so shrinking these days. The second fundamental economy builder as said is the development of natural resources. Keep in mind that the US is unique in the world with its citizenship owning the minerals under their surface property. With industry innovation coupled with the possibility of mineral owning citizens sharing in the wealth should exploration be successful, the stage was set for the paradigm shifting horizontal drilling multi stage fracking oil shale bonanza. This resurgence in a fundamental economy builder meant that the US could produce basic wealth for its citizens and the national economy. Remember at that time the US was not a world marketer of oil, we're only producing our own and consuming it internally. So the Saudis took the lead role in attacking US internal affairs by collapsing the price of oil. They saved up enough money to allow them to weather a US company killing price collapse storm. I've read that their economy was built on the need for about \$90 oil to fund the kingdom. This sounds like dumping a commodity into a market in order to enhance its own market share. When Honda tried that with motor cycles the US dragged them into world trade court and won the case. So how is this different with oil? True the Saudis can physically discover and lift the oil very cheaply but they can't run their kingdom based on that narrow definition of their cost to produce. They are dumping for a purpose and one part of that is to kill the US successful shale development. The Saudis declared economic war on the US oil business, they will not allow the US to wean itself from the need for as much imported oil as the Saudis see fit. The US oil industry could probably live well, and all its workers, mineral owners, and secondary economic benefiters, with a real world price of oil if such could be determined but as long as the Saudis dump OPEC oil on the market, significant parts of the US economy will suffer.

The above rant is not the official position of MGS and only reflects the frustrated opinion of the author.



FEBRUARY SPEAKER

Ezat Heydari



Dr. Ezat Heydari completed his undergraduate education in Geology at the University of Tehran, Iran in 1974. He received a M.S. degree in Geology from the Penn State University in 1981. His thesis was on structural geology of the Resting Spring Range around the town of Shoshone in southern California. Heydari completed his Ph.D. degree at Louisiana State University in 1990. His dissertation revolved around burial diagenesis of the Smackover Formation in southeastern Mississippi.

He has worked as a research professor at LSU and as a researcher at the Mississippi Office of Geology. He is currently a Professor of Geoscience at Jackson State University.

He is specialized in sedimentology, petrography, low temperature geochemistry, and environmental geology. One of his active research projects include the study of Jurassic strata of the U.S. Gulf Coast in general and the Smackover Formation in particular. He studies reservoir quality, diagenesis, and depositional environments of these strata. Heydari also investigates Permian and Triassic strata in order to determine the cause of this devastating mass extinction about 251 million years ago. He has the honor of being a science team member of the NASA's Mars Science Laboratory (MSL) mission to the planet Mars.

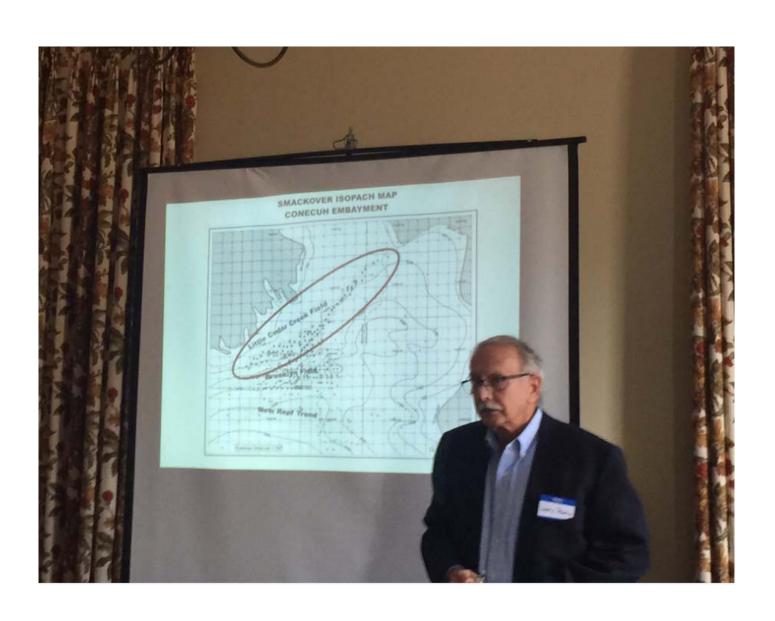
He is the author of about 50 published research papers and over 60 conference presentations. He was Associated Editor of the Journal of Sedimentary Research (1997 – 2004), Guest Co-Editor of Special volume of Tectonophysics (2008), Guest Co-Editor of a Special Issue in Global and Planetary Change (2010), and the reviewer of several texts books including the first edition of the Environmental Geology Today (2013), the third edition of Blue Planet (2011), and the eight edition of Physical Science (2009).



JANUARY SPEAKER

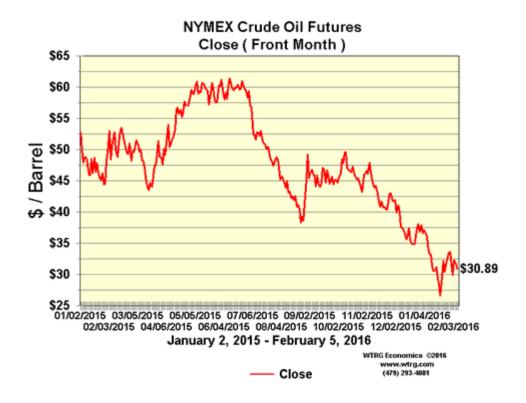
Lawrence R. Baria

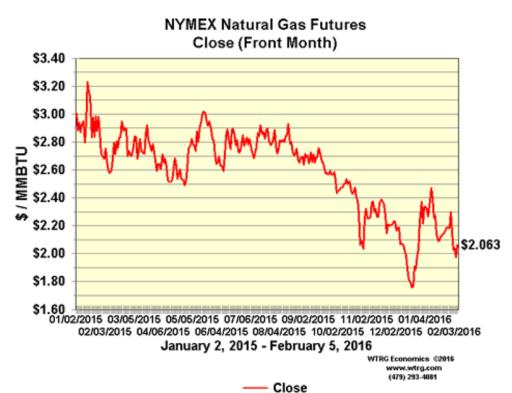
A special thanks to our friend Larry Baria for a great talk last month on the Smackover in S. Alabama. Cheers!





CURRENT PRICES









IMPERIAL BARREL AWARD

Open Registration

ATTENTION!

Dear GCAGS Society Presidents,

Please pass the below information on to your society's members via your website, bulletin, newsletter, e-mail blast or whatever method is best for your society.

Registration for the **2016 Imperial Barrel Award** is now open. Encourage the graduate schools in your area to participate. Please visit the **new website at http://iba.aapg.org/program** to find out more about this prestigious competition for geoscience graduate departments.

If you would like to **sponsor the competition** please visit http://iba.aapg.org/sponsorship (be sure to **designate your contribution to the Gulf Coast Section**) or contact Tom Bulling or Janice Gregory-Sloan for more information (bullintp@bp.com or jgregorysloan@gmail.com)

Regards,

Kate Kipper 512-925-1200



Parker Creek Prospect

PARKER CREEK FIELD

Parker Creek Field was discovered in 1997 with the drilling of the Roundtree & Associates #1 Gladys Knight, Section 32 – T7N – R13W, Jones County, Mississippi. The Field has produced in excess of 7,000,000 BO to date. Although the primary producing horizon is the Upper Hosston, pay is logged in the Sligo, Rodessa, Mooringsport, Paluxy and Lower Tuscaloosa.

Geology

The Parker Creek structure was originally mapped utilizing existing well control and later refined with 2-D seismic data. An elongate, concave salt ridge culminating in a shallow piercement salt dome, is mapped. The prospect was set up by down dip shows logged in the Strago #1 Bradley but due to insufficient permeability in most of the pre-Ferry Lake sediments, the well was plugged and abandoned. The primary Parker Creek producing sand, dubbed the "Big Sand", was wet. It was hoped that by moving up dip to the #1 Bradley, permeable and productive sands would be encountered.

Drilling

The prospect was initially mapped and drilled using available 2-D seismic data, primarily 1960's and 1970's vintage. Adequately imaging the salt was extremely difficult and was considered a primary risk of the project. Indeed, the #1 Gladys Knight unexpectedly encountered salt from 4530'-5200', which was drilled through, and again at 10,500', which was kicked around. Either event could have caused the termination of drilling activity but fortunately the decision was made to continue forward.

In April, 1997, the #1 Gladys Knight reached total depth at 16,091'. Net pay was calculated as follows:

Hosston	182'
Sligo	26
Rodessa	
Paluxy/Wash-Fred	44'
Lower Tuscaloosa	

An additional 200' of calculated pay beneath the shallow overhang was encountered but tests of this interval were mostly unsuccessful as the low gravity crude would only produce in small quantities. It is still unknown what this section is but could possibly be some sort of thrusted Wilcox interval.

In 1999 a 3-D seismic image of the Moselle Ridge was acquired. This has greatly enhanced our ability to image the sediment-salt interface. Two successful Hosston wells however, were drilled utilizing only the 2-D data set. The other wells were drilled post 3-D.

Back Story

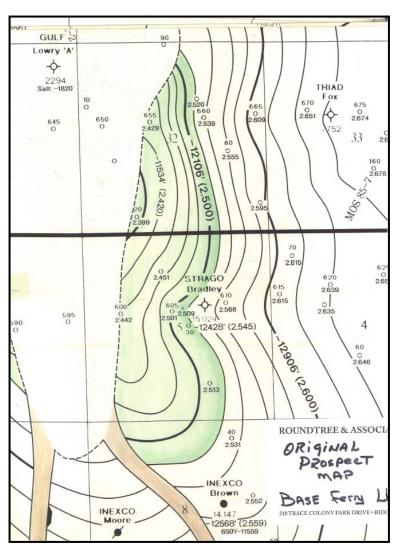
Parker Creek Field (Moselle Dome Prospect) was discovered by Roundtree & Associates but the prospect had been mapped, leased and approved for drilling by a former employer (a large oil and gas concern). After our Jackson office was transferred, our VP of exploration retired. The new VP, after being shown the prospect, killed it, stating the Strago #1 Bradley had tested the feature. Four years after leaving this company, the prospect was re-leased and drilled. I want to take this opportunity to thank my former VP.

David Hancock Roundtree & Associates, Inc.



Parker Creek Prospect

ORIGINAL PROSPECT MAPS



299 RNECK FIELD 0 3 GULF ! Lowry 'A' 4 2294 THIAD Fox 645 3.085 (3.100) STRAGO Bradley 0 3.163 /3.188 3.195 ROUNDTREE & ASSOCIATES ORIGINAL Prospect Map Lower HOSSTON 210 TRACE COLONY PARK DRIVE • RIDGELAND,

ORIGINAL PROSPECT STRUCTURE MAP

BASE of FERRY LAKE

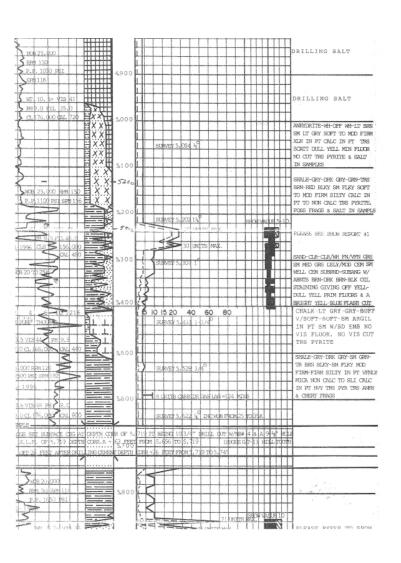
ORIGINAL PROSPECT STRUCTURE MAP

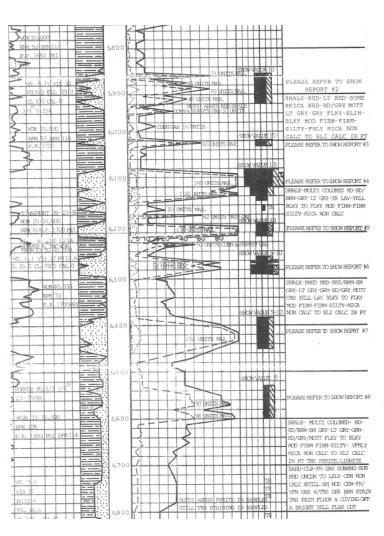
LOWER HOSSTON



Parker Creek Prospect

DISCOVERY WELL Roundtree & Associates Gladys Knight #1 Mudlog

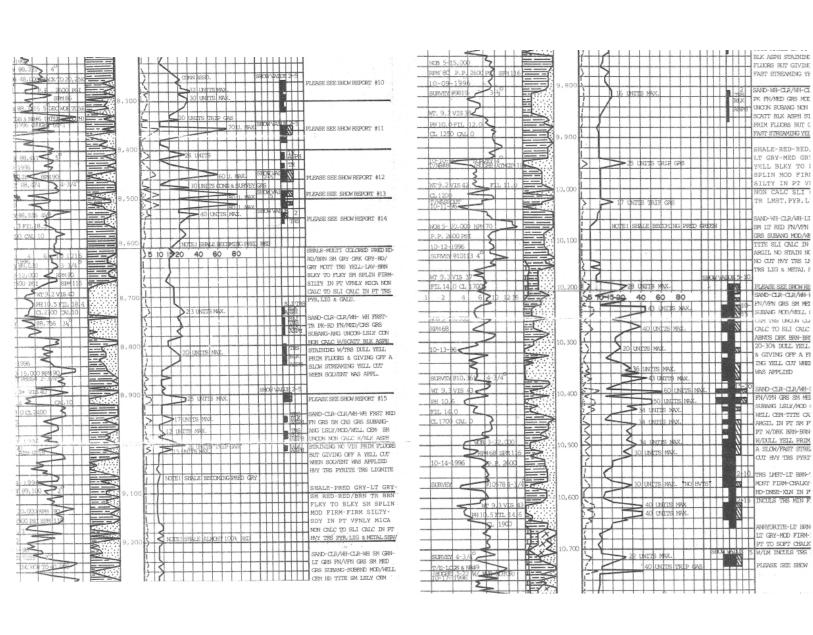






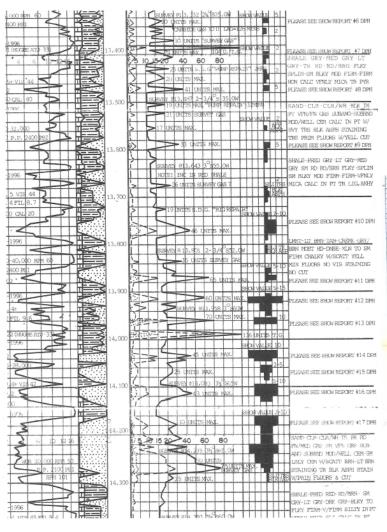
Parker Creek Prospect

DISCOVERY WELL Roundtree & Associates Gladys Knight #1 Mudlog



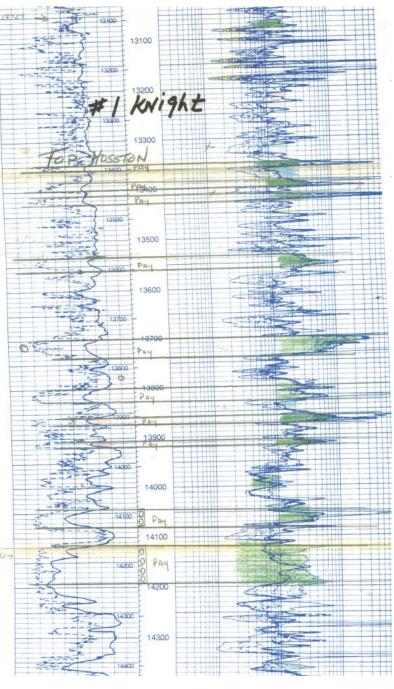


Parker Creek Prospect



Many Thanks to
David Hancock
of
Roundtree & Associates

DISCOVERY WELL Roundtree & Associates Gladys Knight #1 Induction Log



The Geology of Mississippi

David T. Dockery III and David E. Thompson Foreword by Governor Phil Bryant

The Geology of Mississippi is an encyclopedic work by authors with extensive experience in Mississippi's surface geology mapping program. It brings together published work, unpublished work from agency files, and the authors' experience, both in personal field work and in collaboration with experts from around the word.

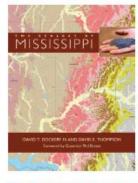
With over a thousand images, the voluminous text relates ways in which Mississippi's geology has contributed to the understanding of global events, such as the extinction of the dinosaurs and the first occurrence of tiny primates. Fossil illustrations include Devonian trilobites, Mississippian scale trees, Pennsylvanian brachiopods, Cretaceous dinosaur bones, Paleocene lignite and petrified wood, Eocene seashells and the excavation of fossil whales, Oligocene marine fossils and rare land mammal finds, Miocene plants and animals, Paleozoic marine fossils, and the bones of giant ice-age mammals. The text is arranged by geologic age.

Economic minerals cited in the book include oil and gas (both methane and carbon dioxide), lignite, dimension stone, crushed stone, sand and gravel, various clay deposits, limestone, and potential economic deposits of bauxite, heavy minerals, and iron ore. Groundwater is Mississippi's most valuable natural resource and supplies over 90 percent of the state's public and industrial water supply and most of the state's irrigation supply for agriculture and catfish ponds. Mississippi's surface geology causes the state's fertile and not-so-fertile soil types responsible for foundation and infrastructure substrates that range from stable to failure-prone due to expansive clays. Finally, *The Geology of Mississippi*, coupled with site-specific surface geologic maps, provides information for the wise use of land and the environmental protection of the state's resources.

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, Paläontologie, and Compass, among others. David E. Thompson, Jackson, Mississippi, is a registered professional geologist and supervising geologist in the Surface Geology Division at the Mississippi Department of Environmental Quality. His work has appeared in Geological Society of America, Journal of the Mississippi Academy of Sciences, and Mississippi Geology, among others.

FEBRUARY, 692 pages (approx.), 8½ x 11 inches, 1099 b&w/color illustrations, introduction, foreword, bibliography, index Printed casebinding **\$80.005** 978-1-4968-0313-9 Ebook available

Copublished with the Mississippi Department of Environmental Quality



The first comprehensive treatment of the state's fascinating geological bistory

Ebooks: Electronic versions of UPM books are available from Amazon Kindle, Barnes & Noble's Nook, Baker & Taylor's Blio, Copia, EBSCO/NetLibrary, EBL/Ebooks Corporation/ProQuest, Ebrary, Follett Digital Editions, Google Editions, Ingram Digital and MyiLibrary, JSTOR, KNO Inc., Kobo, Overdrive, Project Muse, SONY Reader, and Oxford UPSO. SharedBook and University Readers also carry UPM's content.

Order	The Geology of Mississippi	onip to:
Information:		·
Sales tax:	Qty. printed casebinding Price Each	
Add 7% state sales tax		Name
for orders in Mississippi.	Shipping & Handling	
		Street Address
Shipping & handling:	Subtotal	
Add \$5.00 for first book, \$2.00 for each		City/State/Zip
additional book.	Mississippi Sales Tax	<u> </u>
Outside USA: \$10.00 for		Phone
first book, \$10.00 each	Total	
additional book.	5-1-1	Email
To reach to a costal are of	Check or money order payable to University Press of MS	Litali
To receive a catalog of other University Press	☐ American Express ☐ MC ☐ VISA ☐ DISCOVER	Mail order to: University Press of Mississippi
of Mississippi books	Exp. Date	3825 Ridgewood Road, Jackson, MS 39211
Call: 1-800-737-7788,	Exp. Date	
fax: (601) 432-6217, or e-mail:	Card #	FAX order to: 601-432-6217
press@ihl.state.ms.us	Calu #	Call order to: 1-800-737-7788
oressemmatate instas		



Online order to: www.upress.state.ms.us



Dr. David T. Dockery lll RPG

ENERGY BRIEF 2016

David T. Dockery III, RPG

The Energy Brief 2016, presented by the Mississippi Energy Institute, was held in the Jackson Convention Complex on January 19, 2016, from 8:00 a.m. to 11:30 a.m., with over 400 in attendance. Speakers included Lieutenant Governor Tate Reeves, President and Founder of the Center for Industrial Progress Alex Epstein, Speaker of the House Philip Gunn, President and CEO of the American Association of Blacks in Energy Paula R. Jackson, and former Governor Haley Barbour. Former Governor Barbour (Figure 1) explained his role in creating the Mississippi Energy Institute in 2008 to give the energy industry a voice to counter growing opposition to fossil fuels. Barbour also talked about the importance of the minerals industry to the economy of the state, including the new lignite-fueled Kemper County Power Plant. According to Barbour, "Abundant, affordable, American energy is critical to our way of life."



Figure 1. Former Mississippi Governor Haley Barbour.



Dr. David T. Dockery lll RPG

Alex Epstein (Figure 2) of the Center for Industrial Progress gave the Special Address. Epstein is the author of the New York Times bestseller *The Moral Case for Fossil Fuels*. He said that he majored in Philosophy at Duke University, but was interested in philosophic ideas that made a difference in the real world. Thus, he applied his skills in examining the positive and negative roles of fossils fuels in today's society. His conclusion was that: "Fossil fuel use translates to increase in life expectancy and GDP. Without fossil fuels, quality of life continuously suffers."



Figure 2. Alex Epstein of the Center for Industrial Progress.



Dr. David T. Dockery lll RPG

Figure 3 is a slide showing the increase in energy use between 1980 and 2012, with non-fossil fuels continuing to play a minor role in energy production.

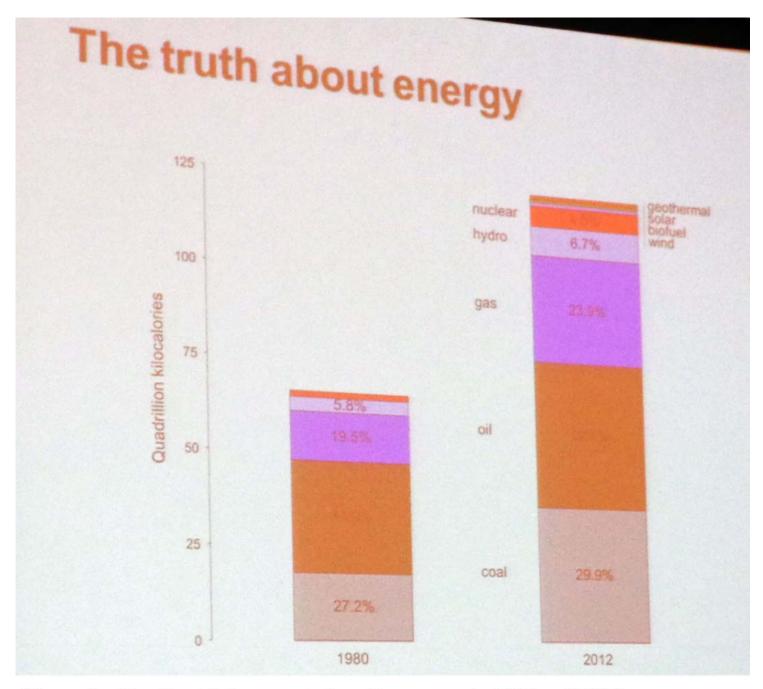


Figure 3. Alex Epstein's presentation: Energy use in 1980 and 2012.



Dr. David T. Dockery lll RPG

Figure 4 shows the dire prediction that carbon-induced climate change will kill as many as a billion people in the next four years. To the contrary, if fossil fuels were abandoned, a billion people might starve to death as our agricultural production and transportation network depend on these fuels.

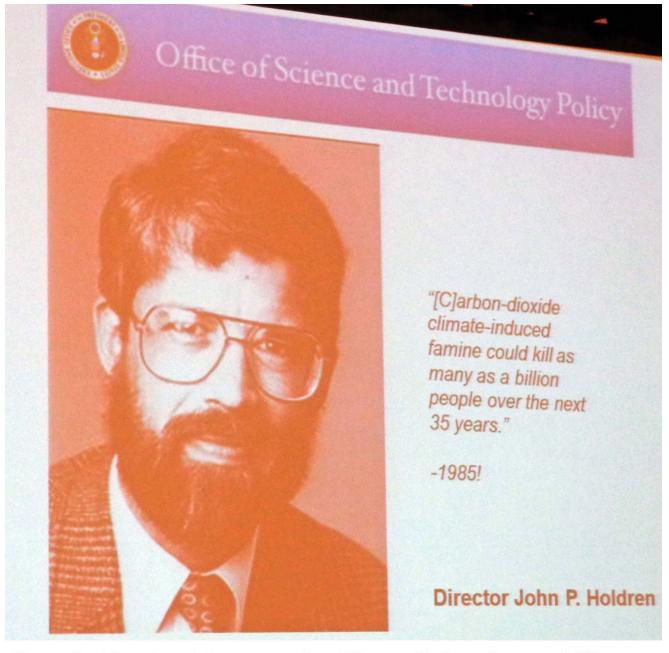


Figure 4. Alex Epstein's presentation: Dire prediction of up to a billion deaths by 2020 (just 4 years away) due to carbon-induced climate change.



Dr. David T. Dockery lll RPG

Paula Jackson (Figure 5) of the American Association of Blacks in Energy discussed diversity in the workplace and the next generation in the energy sector workforce. Some thirty years ago business sought to hire minorities because it was the right thing to do. Then business hired minorities so that their staff looked like the people they served. Now among the millennial generation, the minorities are the majority due to a large influx of Asians and Hispanics in the workplace. According to Jackson, "The average job life span of today's 25 year old is two years. We need to figure out how to impassion these millennials to stay. Today's graduates don't want to work for Google; they want to create the NEXT Google – our industry needs to tap into that innovative mindset." So, if you have millennials, communicate the purpose and meaningfulness of their work in a way they can buy into—and hopefully they will stay with the job.



Figure 5. Paula Jackson of the American Association of Blacks in Energy discussing millennials in the energy sector workforce.



MSU GRADUATE STUDENTS

Research Projects: MS & PhD



Student		Advisor	Project
Tyler Berry	MS	Schmitz	Depositional Systems Analysis of the Kosciusko Formation in Central Mississippi
Curt Burbach	MS	Clary	Ichnofossils (trackways) and informal education interpretation
Victoria Cheek	MS	Dash	Effects of Land Use and Land Cover on the Water Quality of Ross Barnett Reservoir
Young Woo Cho	PhD	Clary	Three dimensional visualization and geo-tourism
Brandon Crabtree	MS	Schmitz	Water Resources in Oktibbeha District
Maelhur Derkota	MS	Dash	Satellite data assisted visualization of ocean acidification
Julia Domenech	PhD	Clary	Water quality in Ventura City, California
Jeremy Foote	MS	Schmitz	Changes in water Red Hills Ecoplex
Brittany Garner	PhD	Gabitov	Proxies for oceanic O2 content (experimental)
Patrick Jordan	MS	Kirkland	A Subsurface Study Of The Texas Panhandle Granite Wash, Anadarko Basin
Danielle Merrit	NS	Skarke	Analysis of suspended particulate matter in the Mississippi Sound using MODIS imagery
Jonney Mitchell	MS	Gabitov	Trace elements in carbonate minerals
Joseph Mitchell	PhD	Kirkland	Diagenetic alteration of mussel shells at archeological sites
Asa Mullenex	MS	Skarke	Role of antecedent geology on coastal morphology in the Grand Bay area
Glenn Myrich	MS	Clary	Pre-Sandy and post-Sandy survey of dollos in an area on the eastern seaboard
Aleksandra Novak	MS	Gabitov	Geochemical response of <i>Pocillopora damicornis</i> coral to changes in temperature, salinity, and oxygen isotopic composition of modern seawater
Lauren Parker	MS	Schmitz	Hydrogeology - undetermined
Mark Powers	PhD	Clary	Inquiry-based field methods
Caitlin Roby	MS	Skarke	Classification and geospatial indexing of Deep sea video data
Claire Rose	MS	Clary	Mississippi River Valley Alluvial Aquifer. Claire, employed by the USGS, has sampled sediment and water for Arsenic and Phosphorus, and is comparing these numbers (spatial distribution) to the earlier 1999 Geochemical Survey of Mississippi.
Sannan Sabidhaman	PhD	Dash	Ocean Biogeochemistry of Ocean acidification
Natalie Samai	MS	Kirkland	A Petrographic Analysis of the Microbial Thrombolite Buildup in the Oxfordian Smackover Formation, Little Cedar Creek Field, Alabama.
Saurar Sidural	PhD	Dash	Remote Sensing of Harmful Algal Blooms
Shatrugan Singh	PhD	Dash	Biogeochemistry of Mississippi Coastal and lacustrine Estuary waters
Taryn Smith	MS	Schmitz	Surface mapping Vicksburg Military Park Quadrangle
Keith Tischler	PhD	Kirkland	The Influence of Microbial Processes and Organic Matter in the Genesis of Complex Carbonate Facies and Lithologies, in the Sacramento Mountains, New Mexico
Jeremy Weremeichik	PhD	Gabitov	Magnesium in carbonate minerals related to paleoclimate (Geochemical response of aragonite under the influence of subaqueous pressures, The effect of growth rate on uranium partitioning between calcite and fluid, Mg/Ca ratios in synthetic low-magnesium calcite: an experimental investigation)



BOLAND SCHOLARSHIP WATCH

Faculty & Students,

April is coming fast 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 2015-2016 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









	Rotary Rig 2/5/201			BA	KER UGHES
Location	Week	+/-	Week Ago	+/-	Year Ago
Land	543	-47	590	-854	1397
Inland Waters	2	1	1	-7	9
Offshore	26	-2	28	-24	50
United States Total	571	-48	619	-885	1456
Gulf Of Mexico	26	-2	28	-22	48
Canada	242	11	231	-139	381
North America	813	-37	850	-1024	1837
U.S. Breakout Information	This Week	+/-	Last Week	+/-	Year Ago
Oil	467	-31	498	-673	1140
Gas	104	-17	121	-210	314
Miscellaneous	0	0	0	-2	2
Directional	53	-5	58	-82	135
Horizontal	458	-29	487	-630	1088
Vertical	60	-14	74	-173	233
Canada Breakout Information	This Week	+/-	Last Week	+/-	Year Ago
Oil	131	5	126	-53	184
Gas	111	6	105	-86	197
Miscellaneous	0	0	0	0	0
Major State Variances	This Week	+/-	Last Week	+/-	Year Ago
Alaska	13	0	13	3	10
Arkansas	0	0	0	-12	12
California	7	0	7	-9	16
Colorado	22	0	22	-33	55
Kansas	9	0	9	-9	18
Louisiana	46	-5	51	-61	107
New Mexico	26	0	26	-52	78
North Dakota	42	-2	44	-90	132
Ohio	13	-1	14	-26	39
Oklahoma	80	-8	88	-96	176
Pennsylvania	19	-3	22	-35	54
Texas	262	-19	281	-392	654
Utah West Virginia	1 12	-2 0	3 12	-11 -7	12 19
West Virginia	13	-2	15	-29	42
Major Basin Variances	This Week	+/-	Last Week	+/-	Year Ago
Ardmore Woodford	3	0	3	-3	6
Arkoma Woodford	5	-2	7	-2	7
Barnett	4	1	3	-15	19
Cana Woodford	37	-2	39	-6	43
DJ-Niobrara	21	0	21	-27	48
Eagle Ford	60	-4	64	-108	168
Fayetteville	0	0	0	-9	9
Granite Wash	8	-5	13	-31	39
Haynesville	15	-3	18	-28	43
Marcellus	31	-3	34	-40	71
Mississippian	10	-1	11	-43	53
Permian	180	-2	182	-237	417
Utica	13	-1	14	-28	41
Williston	42	-2	44	-95	137



BOLAND SCHOLARSHIP CONTRIBUTIONS

Thank you for your generous contributions to the Boland Scholarship Fund

I. Meade Hufford
Alvin Byrd
Maurice Birdwell
Joe White
Tom McMillan
Chris Franks
Geodigital Consulting, LLC
Rick Ericksen
Joseph & Melinda Boland
William & Liz Boland
William & Liz Boland
Bill & Judy Boland
Dave Cate
Tony Stuart
Bob Schneeflock
Jacob Pongetti

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 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.



MGS HONORARY MEMBERS

Esther Applin*

Verne Culbertson*

David C. Harrell*

Dudley J. Hughes*

Walter P. Jones*

Winnie McGlammery*

Maurice E. Miesse*

Marvin E. Norman*

Thurston Connell Rader*

Henry Toler*

Charles H. Williams

David Cate

Paul Applin*

H. Leroy Francis*

Oleta R. Harrell*

Urban B. Hughes*

Harold Karges*

Thomas McGlothin*

Emil Monsour*

Marvin L. Oxley*

Baxter Smith*

H. Vaughn Watkins

Jerry Zoble

Stanley King

Lawrence F. Boland*

Jim Furrh*

Ralph Hines

Wendell B. Johnson *

Wilbur H. Knight*

Frederic F. Mellen*

William H. Moore*

Richard R. Priddy*

Harry V. Spooner

Stewart W. Welch*

Julius Ridgeway

* deceased

MEMBERSHIP APPLICATION / RENEWAL FORM

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

2015-2016

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:
Mailing Address:			
Office Phone:	Home Phone:	FA	X:
E-mail Address:			
College/University Attended:			
Degree(s) Obtained and Year((s) Awarded:		
Professional Associations, Ce	rtifications, & Licenses:		



2015-2016 MGS MEMBERS

Ken Adams Bill Bagnall Larry Baria **Neil Barnes** Tiffany Berry Maurice Birdwell Alvin Byrd Dawn Bissell Randy Bissell Michael Bograd Chris Bowen Keith Bowman Robert Branson **Terry Bryant** J. C. Carlisle Dave Cate Matt Caton Kayla Calhoun **Charles Coney** Phil Cook Robert Craft Jamie Crawford **Andrew Cummings David Dockery** Rick Ericksen Jo Everett Jim Files **Edward Flynt** Chris Franks Stan Galicki **Bob Gaston** Tom Giosa Danny Harrelson Jamie Harris

Lynn Boone

Frank Heitmuller James Nix Dan Herlihy James Norris Robert Herr Aleksandra Novak David Higgenbotham Charles Peel Paige Hilburn Jim Rawls **David Hilton** Philip Reeves Ralph Hines Armando Ricci **Todd Hines** Julius Ridgeway Johnny Holifield **Darrel Schmitz Ed Hollingsworth Bob Schneeflock** I. Meade Hufford Thomas Seitz **Kevin Jeffreys** George Self Lars Johnson Jacob Sharp Joe Johnson Jeremi Simmons Fred Katzenmever **Chales Smith** Karl Kaufmann Harry Spooner **Emilie Kelly Lindsay Stewart** Stanley King John Sullivan Brenda Kirkland Andy Sylte Cragin Knox Tom Sylte James Landrem Mike Taylor Jonathan Leard Sid Thompson Cody Lenert Stan Theiling **Howard Lowery** Janet Verret Joe Lott Watts Ueltschey Joe McDuff Wayne Upchurch Tom McMillan Steve Walkinshaw **Drew Mills** Vaughn Watkins Jim Michael Jeremy Weremelchik Jonney Mitchell Robert Weyman Jack Moody Joe White Charlie Morrison **Charlie Williams** Asa Mullenaxx Mark Wyatt Jess New Jerry Zoble Roy Geoghegan Mark Getscher

^{*}This list is updated monthly. Please contact Bill Bagnall if you have questions.

MGS ADVERTISING ORDER FORM

September 2015 – May 2016

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







ANN

504 KEYWOOD CIRCLE

SUITE A FLOWOOD, MS 39232 W

PHONE: 601-936-3601

CELL: 601-209-0948

FLOWOOD, MS 39232 VALIOSO@BELLSOUTH.NET

Joe R. White, Jr.

Petroleum Geologist

400 Travis St., Ste. 909 Shreveport, LA 71101 Ofc. 318-703-2311

Cell. 318-423-9828 Hm. 318-949-3539 AAPG CPG #5580 MS RPG #0097 LA RPG (SUBMITTED) Jwhite1362@aol.com Joerjrw@gmail.com

Baldwin Madden Energy, LLC

Oil and Gas Acquisitions and Development

Christopher D. Franks Senior Geologist

> 333 Texas Street, Suite 1919 Shreveport, Louisiana 71101-3666 318-429-2204 / 318-429-2229 (fax) chris.franks@BaldwinMadden.com

Energy Land Services

Oil & Gas Leases

I. Meade Hufford, CPL

Owner

P. O. Box 302 144 Wharton Grove Ln Weems, VA 22576

Phone: 804-438-5852 Fax: 804-438-9043 Cell: 713-705-7235 hufford1913@aol.com



Lynn D. Boone
President

JC. Carlisle Vice President

21 Wire Road P.O. Box 8660 Huntsville, TX 77340 Phone: 936-295-4066 Fax: 936-295-4042 Email: jcc9551@ao1com



WATTS C. UELTSCHEY

OFFICE (601) 960-6871 | FAN (601) 950-6902 F-MAIL WATTNÜIMENINGOM | WWW.IRENINGOM

BRUNINI, GRANTHAM, GROWER & HEWES, PLEC ATTORNEYS AT LAW

190 FAST CAPHOL STREET SUITE 100 FACKSON, MS 39201 MAILING ADDRESS: P.O. DRAWER 119 FACKSON, MS 39205



MGS PAST PRESIDENTS

1939-1940	Henry N. Toler	1973-1974	Larry Walter
1940-1941	Urban B. Hughes	1974-1975	W. E. "Gene" Taylor
1940-1941	J. Tom McGlothlin	1975-1976	Jerry E. Zoble
1941-1942	Dave C. Harrell	1976-1977	P. David Cate
1942-1943	K. K. "Bob" Spooner	1977-1978	Sarah Childress
1943-1944	L. R. McFarland	1978-1979	Les Aultman
1944-1945	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
1747-1740	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
1750-1751	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