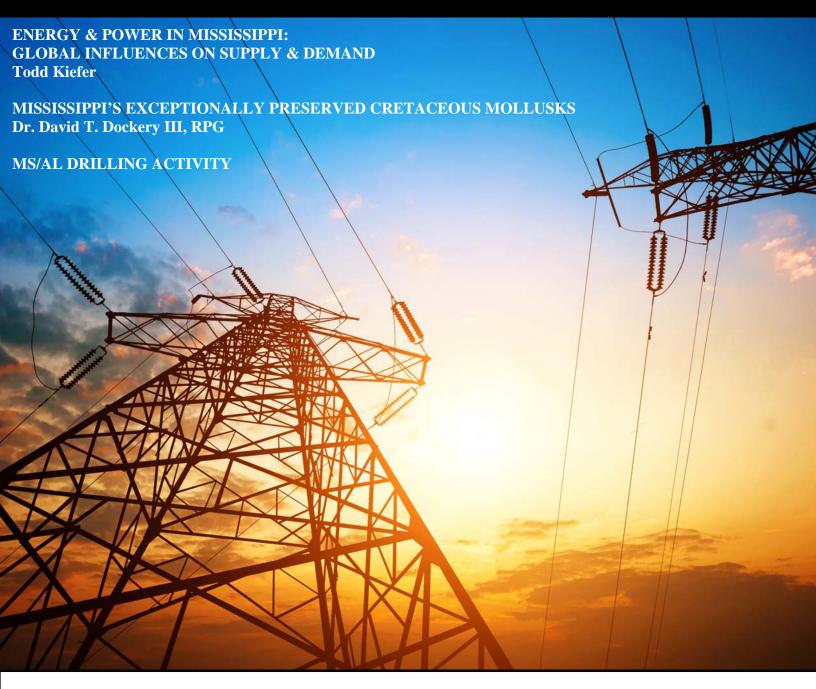
MISSISSIPPI GEOLOGICAL SOCIETY

e BULLETIN

Volume 64

No. 2

October 2015





www.missgeo.com



Historian

Stanley King

MGS 2015-2016 BOARD OF DIRECTORS

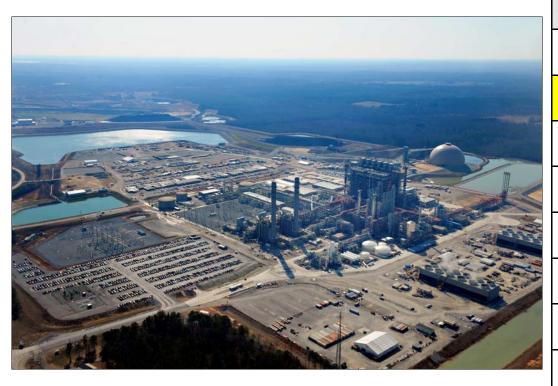
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Other						
Environmental	John Ryan	Allen		(601) 936-4440		

Independent

(601) 842-3539

2015-2016 MGS MEETING SCHEDULE			
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	
TBD	MAPL Christmas Party and Dance	TBD	
January 7, 2016	TBD	River Hills – 11:30am	
February 11, 2016	TBD	River Hills – 11:30am	
March 10, 2016	TBD	River Hills – 11:30am	
April 7, 2016	Boland Scholarship Awards	River Hills – 11:30am	
May 12, 2016	Spring Fling	Jackson Yacht Club- 5:30pm	



OFFICERS MEETINGS

September 8, 2015

October 6, 2015

November 10, 2015

January 5, 2016

February 9, 2016

March 8, 2016

April 5, 2016

May 10, 2016



PRESIDENT'S LETTER

Jack Moody



I must begin by thanking our sponsors, members, wives, students, and vendors who made the Fall BBQ such an enjoyable event. When an organization our size can muster the turnout we had it does let all know that MGS is alive and well. Many thanks to all.

What a time to be alive. The changes that are upon us are so fundamental to who and what the USA is and where it is going. Our organization of geologists is not left out of the whirl wind. Energy and resource development, the fate of species, and the history of climate are all hot topics in which we have considerable education, training, and experience compared to the general population. In our times the blending of politics, media-fame, and science has produced polarized views with little tolerance for opposing current scientific conclusions. I read the following news article the other night. "The science on global warming is settled, so settled that 20 climate scientists are asking President Barack Obama to prosecute people who disagree with them on the science behind man-made global warming.

Scientists from several universities and research centers even asked Obama to use the Racketeer Influenced and Corrupt Organizations Act (RICO) to prosecute groups that "have knowingly deceived the American people about the risks of climate change, as a means to forestall America's response to climate change." I saw this first on Fox News website then googled it. Several years ago I read a top peer reviewed science news magazine and noted that the editor was so incensed by some scientists bucking the band wagon of popular beliefs. He no longer needed more proof. Climate change should be treated as a law, not merely a theory to be disputed. I was appalled. Science does not move at the speed of politics. When the pot gets poisoned by biased science, grant funding, and intolerance, the fix is in. So here we are today with - join the majority views or go to jail. The "majority views" will meet this December in Paris for the next UN meeting on climate change. This is a very strong tide that will be rolling through the body of world politics. Don't be surprised if you begin to feel its chilly anti fossil fuel waters coming to a town near you. Do we as geologist believe that climate changes? Absolutely. Is there a substantial geologic scientific record of these changes? You bet. My point is not to debate climate change but rather to realize that the upheaval that is affecting so much of the country touches our little corner of the world. With respect to climate change people my age were taught the results of the excellent field work done by the early Pleistocene geologists of Europe and North America. For some of the older geologists it is hard to accept the current "law" that climate change is caused by humans. For many younger geologist the older view is antiquated. AAPG found out how divided its membership was when it first attempted to produce an official policy statement on the issue. Let's hope that science is allowed to move without external interference and eventually gets close to understanding the cause and effect relationships that drive the natural systems.

Many of our members are in the energy business. Others are in the business of building infrastructure and/or complying with existing laws and regulations. With that in mind, I hope to raise the membership's awareness of what is going on from the non-fossil fuel side of the energy industry. If I can do this successfully I think you'll benefit by being informed and you may like some of what you hear, I do.

Again thanks to our officers, members, and sponsors for supporting MGS and I hope to see many of you at our regular monthly meetings.

Jack Moody



OCTOBER SPEAKER

Todd Kiefer



Todd Kiefer is a 25-year military officer, Naval aviator, EA-6B Prowler pilot. 8 times deployed to Middle East and Southwest Asia. 22 months on the ground in Iraq. 3 years as pentagon strategic planner on Joint Staff. 3 years as faculty instructor of warfighting and strategy and CJCS Chair at the Air War College. Degrees in physics, strategy, and history. Operational experience in military command, electronic and information warfare, military strategy and war planning, operational testing of software and avionics, aviation training, crash investigation, contract management. Published papers on energy security and biofuels. Literature research focused on primary energy, alternative energy, photosynthesis, electrification and economic development, international relations theory and geopolitics, demographic trends, climate and environment, water and resource scarcity, biophysical economics, EROI. Currently managing a local power company and a rural water association.



MISSISSIPPI GEOLOGICAL SOCIETY

USGS-Tuscaloosa Marine Shale

ATTENTION!

The United States Geological Survey needs YOUR help.

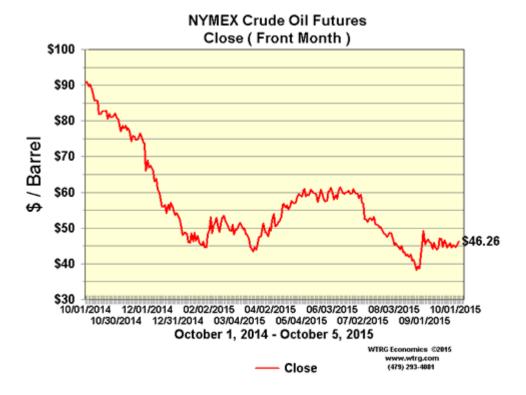
Paul Hackley of the USGS is doing a study of the Tuscaloosa Marine Shale and is looking for oil samples.

If you can help please contact the editor.

Thank You



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MONTHLY POST

Dr. David T. Dockery lll RPG

MISSISSIPPI'S EXCEPTIONALLY PRESERVED CRETACEOUS MOLLUSKS

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

In June 2002, among other things, I was working on an early draft of *The Geology of Missis-sippi* (with co-author David Thompson) and a paper on Cretaceous Gastropods of the Coon Creek Tongue of the Ripley Formation (with Klaus Bandel, University of Hamburg). I knew the completion of the first of these would take some time, but the publication of the second was to be only half a year away in a volume on the Coon Creek Type locality in Tennessee. Both publications had starts and stops, but oddly enough, *The Geology of Mississippi* by University Press of Mississippi in partnership with MDEQ and the Coon Creek volume by the Alabama Museum of Natural History will probably be available early next year. Mississippi and Tennessee have exceptionally well preserved Cretaceous mollusks, while the rest of the world has largely replaced shells, molds and casts.

Figure 1 shows the mother-of-pearl shell of the Coffee Sand ammonite *Placenticeras intercalare* from Lee County, Mississippi



Figure 1. *Placenticeras intercalare* from the Coffee Sand in Lee County, Mississippi. Image from George Phillips, Mississippi Museum of Natural Science.



MONTHLY POST

Dr. David T. Dockery lll RPG

Figure 2 gives three views of the gastropod Anchura abrupta



Figure 2. *Anchura abrupta* from the Coon Creek Tongue of the Ripley Formation in Union County, Mississippi.

Figure 3 gives three views of the gastropod *Volutamorpha valida*, both species from the Coon Creek Tongue of the Ripley Formation in Union County, Mississippi



Figure 3. *Volutamorpha valida* from the Coon Creek Tongue of the Ripley Formation in Union County, Mississippi.



MONTHLY POST

Dr. David T. Dockery lll RPG

. Figure 4 shows two specimens of the gastropod *Neritina* with it original color pattern from the Coon Creek Tongue of the Ripley Formation in Union County; two recent *Neritina* specimens ares included with almost the same color pattern as the 70-million-year-old fossils.

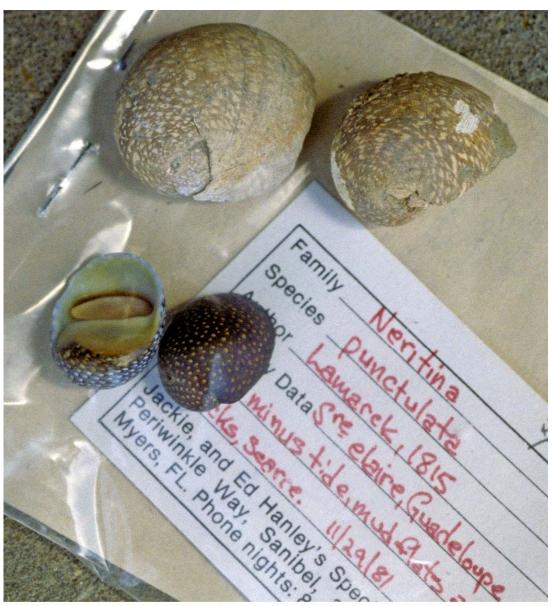
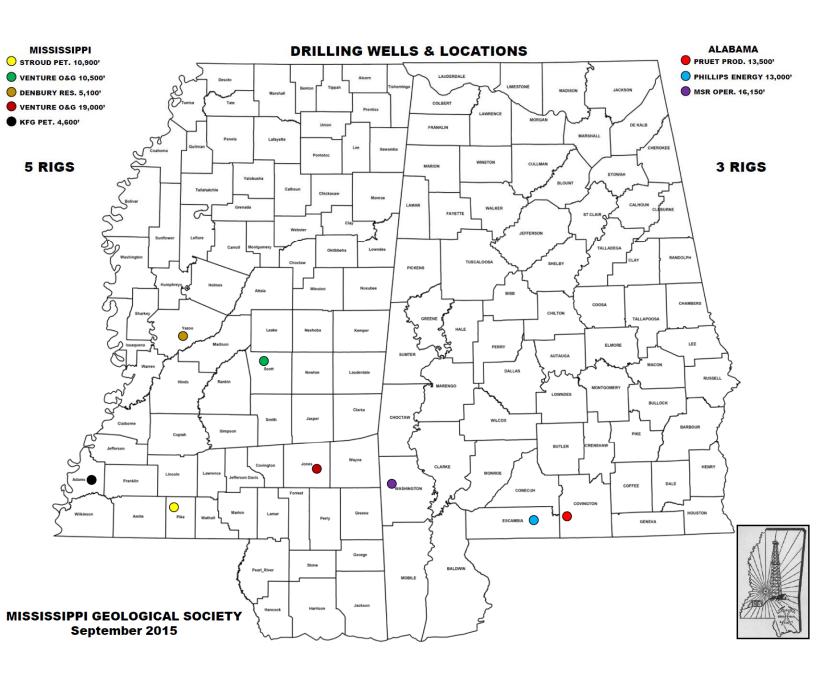


Figure 4. Fossil *Neritina*, with original color pattern, from the Coon Creek Tongue of the Ripley Formation in Union County, Mississippi (at top) and recent *Neritina* with label.



MONTHLY DRILLING REPORT

Mississippi & Alabama



	Rotary Rig Count 10/2/2015			BAKER HUGHES	
Location	Week	+/-	Week Ago	+/-	Year Ago
Land	776	-24	800	-1074	1850
Inland Waters	3	-2	5	-8	11
Offshore	30	-3	33	-31	61
United States Total	809	-29	838	-1113	1922
Gulf Of Mexico	29	-2	31	-30	59
Canada	179	3	176	-251	430
North America	988	-26	1014	-1364	2352
U.S. Breakout Information	This Week	+/-	Last Week	+/-	Year Ago
Oil	614	-26	640	-977	1591
Gas	195	-2	197	-135	330
Miscellaneous	0	-1	1	-1	1
Directional	83	-3	86	-126	209
Horizontal	609	-20	629	-732	1341
Vertical	117	-6	123	-255	372
Canada Breakout Information	This Week	+/-	Last Week	+/-	Year Ago
Oil	70	4	66	-179	249
Gas	109	-1	110	-72	181
Miscellaneous	0	0	0	0	0
Major State Variances	This Week	+/-	Last Week	+/-	Year Ago
Alaska	11	-2	13	2	9
Arkansas	4	1	3	-8	12
California	13	-1	14	-33	46
Colorado	30	-3	33	-46	76
Kansas	10	1	9	-14	24
Louisiana	66	-4	70	-47	113
New Mexico	46	-4	50	-53	99
North Dakota	65	-1	66	-124	189
Ohio	20	1	19	-20	40
Oklahoma	97	-8	105	-115	212
Pennsylvania	30	-3	33	-27	57
Texas Utah	357 5	-6 0	363 5	-538 -18	895 2 3
West Virginia	18	1	17	-10	30
Wyoming	24	0	24	-36	60
Major Basin Variances	This Week	+/-	Last Week	+/-	Year Ago
Ardmore Woodford	2	-2	4	-2	4
Arkoma Woodford	8	0	8	1	7
Barnett	6	0	6	-15	21
Cana Woodford	37	-3	40	-15	42
DJ-Niobrara	26	-3	29	-38	64
Eagle Ford	82	-3	85	-128	210
Fayetteville	4	1	3	-5	9
Granite Wash	12	0	12	-52	64
Haynesville	26	0	26	-18	44
Marcellus	47	-2	49	-35	82
Mississippian	14	0	14	-64	78
Permian	245	-5	250	-311	556
Utica	21	1	20	-22	43
Williston	66	-1	67	-132	198

bakerhughes.com



BOLAND SCHOLARSHIP WATCH

Faculty & Students,

This is a new year 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











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

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*

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Dudley J. Hughes*

Walter P. Jones*

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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	l Donation \$	Total Amount Enclo	sed \$
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:		



2015-2016 MGS MEMBERS

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Bill Bagnall Howard Lowery

Tiffany Berry Joe Lott

Maurice Birdwell

Alvin Bird

Randy Bissell

Chris Bowen

J. C. Carlisle

Tom McMillan

Drew Mills

Jonney Mitchell

Jack Moody

Charlie Morrison

Dave Cate Asa Mullenaxx
Matt Caton Jess New

Phil Cook James Norris

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Brenda Kirkland Joe White

Cragin Knox Charlie Williams
James Landrem Mark Wyatt
Jonathan Leard Jerry Zoble

Cody Lenert

Kayla Calhoun

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):

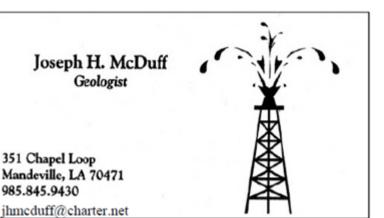
Type of Web Page Ad	Rate/Year	Amt. Remitted
Front Page Sponsor		
(Banner Ad – limit of 5)	\$500	\$
Second Page Banner Ad	\$250	\$
Professional Listing/Link	\$100	\$

(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









KARL J KAUFMANN

504 KEYWOOD CIRCLE

SUITE A

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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