

Volume 65

No. 7

March 2017

THE GEOLOGIC HISTORY OF MISSISSIPPI Dr. Stan Galicki, Ph.D., RPG, Millsaps College

A GEOPHYSICIST'S MEMOIR Searching for Oil on Six Continents

THE 2017 GEM AND MINERAL SHOW Dr. David T. Dockery, RPG, Office of Geology

> Clark Creek Natural Area Wilkinson Co., MS



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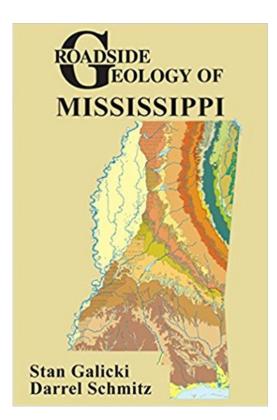


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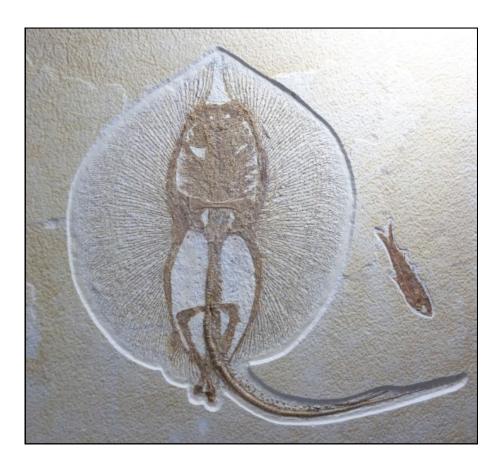


At our monthly meeting, scheduled for Thursday, March 9, 2017, we look forward to a presentation from Dr. Stan Galicki of the Millsaps College Geology Department (go Majors!) on "The Geologic History of Mississippi". You also need to pick up a copy of the recently published *Roadside Geology of Mississippi* by Dr. Galicki and Dr. Darrel Schmitz (Mississippi State University).

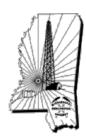


Special thanks to Dr. Greg Easson, Professor at the University of Mississippi Department of Geology and Geological Engineering and Director of the Mississippi Minerals Research Institute for his presentation on the on "Oil and Gas Research and Education at the University of Mississippi.

2016-2017 MGS MEETING SCHEDULE		
When	What/Who	Where
September 8, 2016	Fall BBQ	Jackson Yacht Club-5:30pm
October 13, 2016	Deep Lakes in Early Mars—Ezat Heydari	River Hills – 11:30am
November 10, 2016	Tuscaloosa Marine Shale Paul Hackley et al. USGS	River Hills – 11:30am
	MAPL Christmas Party CANCELLED	
January 12, 2017	Jamie Harris—Millsaps College The Geology of Scotland	River Hills – 11:30am
February 9, 2017	Dr. Greg Easson Oil & Gas Research and Education	River Hills – 11:30am
March 9, 2017	The Geology of Mississippi Dr. Stan Galicki Millsaps College	River Hills – 11:30am
April 13, 2017	Boland Scholarship Awards	River Hills – 11:30am
May 11, 2017	Spring Fling	Jackson Yacht Club– 5:30pm



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



MARCH SPEAKER

Dr. Stan Galicki



The Geologic History of Mississippi

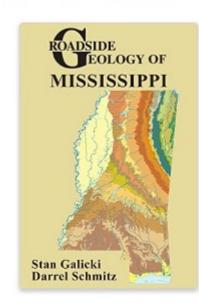
Abstract:

The dynamic geologic history of Mississippi is certainly not reflected in either the surface topography or outcrops across the state. What weathering and vegetation do not obscure, the Mississippi Department of Transportation does. Over the past billion years Mississippi has been torn apart, smashed together, eroded, torn apart again, inundated and buried, and finally uplifted and eroded. This presentation covers the geologic history of Mississippi and highlights some of the most notable geologic features that can be seen by the casual observer.

Biography:

Stan Galicki is a Professor of Geology at Millsaps College. He came to Millsaps following eight years in petroleum exploration with Unocal. His research interests include wetland biogeochemistry, paleoenvironmental interpretation, and dendrochronology. Dr. Galicki does product testing and development of oil spill sorbent materials and stormwater remediation filters in the Millsaps College Sorbent and Environmental Laboratory. Dr. Galicki also has interests in sustainable design. He routinely incorporates sustainable design into personal projects and also designed and managed the construction of wastewater treatment wetlands for the Kaxil Kiuic Center for Living and Research in Yucatán, Mexico.

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Roadside Geology of Mississippi (Roadside Geology Series) Paperback –

October 15, 2016 by Stan Galicki (Author), Darrel Schmitz (Author) Be the first to review this item

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It s a little-known fact, but Mississippi has a volcano. True, it s buried under 2,600 feet of sediment, but it was red hot and active roughly 79 to 69 million years ago, and evidence of its bulging remains are visible in the Jacksonville area. Mississippi emerged along the edge of a massive tear that * Read more





Mississippi State University

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





From left to right:

Tim Palmer, Kalli Dubois, Shannon Vattikuti, Rayford Parnell, and Brenden Lomago.



A GEOPHYSICIST'S MEMOIR Albert Hrubetz III

For Immediate Release



Texas Oilman's Life and Exploration Spans Six Continents

Memoir traces America's shift from coal to oil and one man's journey to the top

DALLAS, TEXAS (02/24/2017) — For more than 60 years Albert Hrubetz III, a Dallas geophysicist, oilman and president of Hrubetz Oil Co., has crisscrossed the globe exploring for oil. His recently-published memoir, "A Geophysicist's Memoir: Searching for Oil on Six Continents," details his life and career, beginning with a tough, depression-era childhood in an Illinois coal-mining town, devastated by America's shift to oil. Determined to take his place in this dynamic new field, he scraped his way through college, earned his way into the energy industry, and began an uncharted adventure in pursuit of oil around the world.

Hrubetz's memoir has already received high praise from legendary oilmen, such as legendary energy magnate T. Boone Pickens, who calls the book "a wild ride." And renowned Texas oilman Herbert Hunt endorses it as "an entertaining book full of intriguing happenings, untold and unrecorded stories, and events of international significance."

The book provides a fascinating account of the oil industry's evolution — shaping the American landscape as well as the global geopolitical playing field. "Al's life reads like great fiction — from his accounts of growing up in a saloon in the era of Pretty Boy Floyd, or making bombs behind his house, to his defiant discovery of oil in Dubai after experts insisted there was none," said the book's editor, Nina Flournoy.

An insightful and witty storyteller, Hrubetz relays the pitfalls and glories of his childhood, his days as a Marine and in oil exploration. His candid accounts of innovative, sometimes covert schemes played out in the competitive, often dicey energy sector, underscore the bravado and sharp business acumen that helped Hrubetz scale the corporate ranks in the global oil industry. After working with top oil company executives, political figures, sheikhs, military rulers, business leaders and wildcatters, he formed his own oil company. His efforts to steer Hrubetz Oil through devastating busts and government regulations, provide insight into oil company operations. Overall, Hrubetz's personal account of oil's evolution during his lifetime, parallels the history of America over the last 80 years, illustrating the impact of the energy industry on the country and the world.

"<u>A Geophysicist's Memoir: Searching for Oil on Six Continents</u>" is available on <u>Amazon</u> and on <u>BookLaunch</u>. For more information, contact <u>NFES</u> or email <u>npflournoy@gmail.com</u>.



A GEOPHYSICIST'S MEMOIR Albert Hrubetz III

About the Author

Albert Hrubetz III, Chairman and President of Dallas-based Hrubetz Oil Co., has been active in the petroleum industry for 63 years. He earned degrees in Geological Engineering from the Institute of Technology, St. Louis University, and in Advanced Management from the Graduate School of Business Administration at Harvard University.

In 1953 Hrubetz joined the Exploration Department of Continental Oil Co. (CONOCO) as a geophysicist, progressing to Chief Geophysicist, International Exploration and Executive Assistant to President. He held executive responsibility for integrated petroleum operations in CONOCO's largest and most important profit center. He served as vice president of an independent oil company from 1968 to 1972, with worldwide responsibility for negotiations, exploration and production activities, before joining Texas Pacific Oil Co. as Senior Vice President, Exploration and International. In 1975 he became Executive Vice President, serving as a Director of Texas Pacific and as President and Director of its 17 foreign subsidiaries. In 1978 he became President of Texas Pacific Oil Co. and was named CEO the following year. After Texas Pacific sold its domestic oil properties to Sun Oil Co. in 1980, in what was then the second-largest commercial sale in U. S. history, he founded Dallas-based Hrubetz Oil Co.

Hrubetz has held leadership positions in numerous petroleum industry organizations, including the American Petroleum Institute, U. S. Oil and Gas Association, Independent Petroleum Association of America, Texas Oil & Gas Association, American Association of Petroleum Geologists, Society of Exploration Geophysicists, All-American Wildcat Committee and Dallas Wildcat Committee. He is past president of the Dallas Petroleum Club, Trustee Emeritus/past Vice-Chairman of the Board of Trustees at the University of Dallas and Advisory Board member of the Maguire Energy Institute at SMU's Cox School of Business. He received the Alumni Merit Award from St. Louis University in recognition of distinguished achievement in geophysical exploration.

Hrubetz is also author of "Maryville Illinois - Growing up During the Great Depression."

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Contact: <u>NFES</u> npflournoy@gmail.com



A GEOPHYSICIST'S MEMOIR

Albert Hrubetz III

A GEOPHYSICIST'S MEMOIR HING FOR OI SEARCHING FOROIL ON SIX CONTINENTS 111 HRUBETZ 233 CHAPTER 16 ALBERT Whiskey vs Oil We presented our five-year earnings forecast to Scagram's Executive Management Committee in Montreal on Oer 24, 1979, All Scagram operating Management committee in montreal of the state of the segment operating divisions were required to present a new five-year budget forecast each year. I had othe of the deca ond petroleum crss ons were required to present a new investeat outget interast each year. forecast incorporated alternative cases, depicting various capital 18 y nearly grinding to a hali, dropping from Revolution. Thi expenditure rates with corresponding revenues. oOPD in the wake of the frants 79 to \$39.50 over the next 12 months The After the meeting, Howard and I ferried three Seagram executives oil rose from \$1 of rose from 313, instantial in the shortages, a spike in gasoline brack of the rest 12 months that and long gasoline brack. Coupons for gasoline rationing were printed but not used during the crisis. Howard even suggested we buy a gasoline station to After the meeting, Howard and I terried three Neagrain executives back to New York's Westchester Airport in our plane before continuing on to Dallas. The passengers included (Charles Bronfman and Field and A combine mergel perioded the Edeon's relative continuing on to Dallas. The passengers included Charles Bronfman and Fieldsteel. A somber mood pervaded the Falcon's cabin. Charles voiced concerns about each availability and debr load He asked Howard what Connco did when they needed addinoral cach. We speculated the combined revenue forecasts from all Segram operating divisions didn't meet the brand's espectators. Our organ ensure a supply for our employees. The oil industry came under sharp attack for allegedly fomenting the shortage accompanied with wild nimors of oil tankers anchored offshore delaying por entry to drive prices up. An Associated Press poil in early May 1979 found 34 percent of Americans thought the energy shortages were a hoax. Our industry because the favorite whipping boy of politicians as gasoline prices went up, and oilmen came out of this crisis unfainly tarred and feathered. operating divisions didn't meet the board's expectations. Our growth are showed comfortable revenue increases, but what of the other I took a good deal of ribbing about my int



A GEOPHYSICIST'S MEMOIR Albert Hrubetz III

Praise for A Geophysicist's Memoir: Searching for Oil on Six Continents

"A Geophysicist's Memoir by Albert Hrubetz is much more than the story of a boy from Illinois who grew up to become an active part of the petroleum industry. Al's involvement around the world tells of the hurdles, workings, challenges and history of the energy industry. This entertaining book is full of intriguing happenings; untold and unrecorded stories and events of international significance. Certainly interesting and worth reading."

-Herbert Hunt, renowned veteran Texas oilman, Petro-Hunt L.L.C.

"You would be hard-pressed to find two Depression-era children growing up in more divergent places than Maryville, Illinois, and Holdenville, Oklahoma, yet that is one of the first ties that bind Al Hrubetz and me. We are also bound by being oil industry mavericks passionate about our industry, the many changes it would see in our lifetimes, and the American entrepreneurial spirit. In *A Geophysicist's Memoir*, Hrubetz takes us along on his wild, 60-plus-year ride through the industry that fueled America's rise to the greatest country in the world."

-T. Boone Pickens, legendary oilman, Founder & Chairman, BP Capital Management

"Al Hrubetz's remarkable life is the quintessential American story. Over six decades and six continents, Al was an original globetrotter as he rode the highs and lows of the industry that built America into the powerhouse she is today."

-Todd Staples, President, Texas Oil & Gas Assoc., former Texas Agriculture Commissioner

"Based on the title, I thought the book would be filled with technical language and scientific data only to discover a very well written story of the life of an interesting man who came from extremely modest beginnings and accomplished great things in his business and his life. Al is a big part of America's 'greatest generation' and his book is a tribute to the boys of his generation." —Frank Palamara, former CEO, New York Stock Exchange

"For the experienced oilman, traveler or historian, this is a remarkable and intriguing guided journey through some of the most interesting and significant exploration ventures of the last six decades. For the student contemplating a geoscience career, or a newly-minted graduate, it's an invaluable handbook of knowledge and wisdom about what an exciting career in the industry can be." —Jim Gibbs, President, AAPG Foundation, Past President, American Assoc. of Petroleum Geologists (AAPG)

"A well-told story of one man's unique experiences in oil and gas exploration. Very few in the industry have the opportunity to be involved in so many international projects. A must read for those interested in the oil and gas business."

-Jere McKenny, former President, Kerr-McGee

"Mr. Hrubetz is no stranger to innovation in the pursuit of oil and gas."

-New York Times



GEOLOGY POST

ARTICLES, PAPERS or NEWS?

ATTENTION!!!!! Industry, Professors and Students:

I am adding a dedicated section that includes more content from the industry and our schools.

Submissions can include anything from professional papers, thesis abstracts, job opportunities to pictures. Anything!!!!

If you have any information or news you would like to share with the Society **PLEASE** email them to the MGS Editor at:

mcaton@tellusoperating.com

Thanks & Regards,

Matt Caton Editor



OIL & GAS FUTURES









THE 2017 ANNUAL GEM AND MINERAL SOCIETY ROCK SHOW David T. Dockery III, RPG, MDEQ Office of Geology

The annual Gem and Mineral Society Rock Show is a must-see for all MGS members, and this year's 81st Show, held on February 25th and 26th, was no exception. My only warning for this event is to leave some of your money at home. Figure 1 shows three pricey items at the 2017 Rock Show: a freshwater stingray from the Eocene Green River Shale of Wyoming, large crinoids from the Devonian of Morocco, and the internal mold of *Campanile*, the largest gastropod of the Eocene, from France. So, which one did I purchase at a large price? The answer to come.



Figure 1. Fossil freshwater stingray from the Eocene Green River Shale (left), crinoids from the Devonian of Morocco (middle), and the internal mold of *Campanile*, a large gastropod from France.



The rock show is also a great family event. Figure 2 shows MDEQ Office of Geology families, those of Barbara Yassin and James Starnes, working the Office of Geology booth. Figure 3 shows MGS members Jack Moody and Maurice Birdwell with their families at the Rock Show.



Figure 2. Families working the Office of Geology booth. Left are Barbara Yassin and her daughter Nadia; at right are James Starnes and daughters Gracie (in middle) and Abby. Pictures taken on February 25, 2017.

Figure 3 shows MGS members Jack Moody and Maurice Birdwell with their families at the Rock Show



Figure 3. MGS member families in front of the Office of Geology booth at the 2017 Rock Show. Left, the family of Jack Moody. Right, the family of Maurice Birdwell.





Universities geology departments (Figure 4) represented at the event included the University of Mississippi, Mississippi State University, and the University of Southern Mississippi.

Figure 4. University Geology Departments represented at the 2017 Mississippi Gem and Mineral Society Rock Show: the University of Mississippi (top), Mississippi State University (middle), and the University of Southern Mississippi (bottom).



Students from a Forensic Geology at Tulane's Madison Campus (Figure 5) and from a Physical Geology class at Hinds Community College's Rankin County Campus (Figure 6) visited the Office of Geology Booth (for extra credit).



Figure 5. Forensic geology students at Tulane University's Madison Campus, Wesley Perry (left) and Kimberly Hawkins (right) at the Office of Geology booth. Pictures taken on February 25, 2017.



Figure 6. Physical Geology students at Hinds Community College's Rankin County Campus visiting the Office of Geology booth. James Ross is at left, and Richard Goodwin at right. Pictures taken on February 25, 2017.



Each rock show has its own set of interesting items. This year at the tables of *Stone and Bones* was a fossil skull specimen of the Oligocene sabre-tooth cat *Dinictus squalidens*



Figure 7. Oligocene sabre-tooth cat *Dinictus squalidens* at the *Stones and Bones* dealer at the 2017 Mississippi Gem and Mineral Society Rock Show.

I had seen one of these at an earlier rock show; the dealer told me that of every thousand skulls found in the Badlands of South Dakota, one would be a sabre-tooth cat. That impressed me; when I collected fossils there, I was happy to find a piece of any skull. The price of the skull in Figure 7 was in the thousands of dollars (a price much cheaper that spending a lifetime looking for one). To answer the question above, I bought one of the large Moroccan crinoids. Crinoid stem segments are common fossils in the pebbles of Mississippi's chert gravel deposits. Complete body fossils (known as lagerstätte) from Morocco show the rest of the animal.



BOLAND SCHOLARSHIP WATCH

Faculty & Students,

Next month the Mississippi Geological Society along with the Boland Scholarship Fund want to honor the most outstanding overall students for the 2016-2017 year.

Each year, the Boland Scholarship awards 1 student from each institution a check that rewards students for their hard work and dedication to the Geosciences and their community.

We look forward to a great year and hope to see you at our monthly meetings.

Best Regards,

Matt Caton











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

GEO LINK POST

USGS TAPESTRY OF TIME AND TERRAIN <u>http://tapestry.usgs.gov</u> The CCGS is donating to all of the 5th and 6th grade schools in the Coastal Bend. Check it out—it is a spectacular map. You might want a framed one for your own office. The one in my office has glass and a metal frame, and it cost \$400 and it does not look as good as the ones we are giving to the schools. Call Owen 510-6224 if you want one for your office for \$150. Duncan, Mike, Chris, Dave, Bob Randy, Seb., Kevin, Ken, Craig, Patrick, Robert.

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<u>http://www.fs.fed.us/gpnf/volcanocams/msh/</u> This is a live cam of Mt. St. Helens refreshed every 5 minutes. At the bottom are old videos of past eruptions in this cycle. It is worth a watch especially now.



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Petroleum Geologist

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1992-1993	Michael Noone/Stanley King
1993-1994	Brian Sims
1994-1995	C. W. "Neil" Barnes
1995-1996	Lester Aultman
1996-1997	Jack S. Moody
1997-1998	George B. Vockroth
1998-1999	Rick L. Ericksen
1999-2000	Stanley King
2000-2001	John C. Marble
2001-2002	Andrew T. Sylte
2002-2003	Aaron Lasker
2003-2004	John G. Cox
2004-2005	James E. Starnes
2005-2006	Todd Hines
2006-2007	Bob Schneeflock
2007-2008	Tony Stuart
2008-2009	Lisa Ivshin
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