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KANSAS GEOLOGICAL SOCIETY

# BULLETIN

Volume 95 Number 1

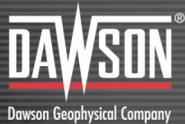
January - February 2020

## IN THIS ISSUE

**KGS Annual Banquet and Awards Ceremony  
January 24, 2020 5:30 -9:00 PM  
Wichita Petroleum Club**

**Honorary Membership to Dr. Sal Mazzullo**





# THE TOTAL PACKAGE

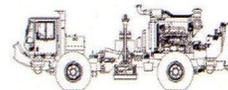
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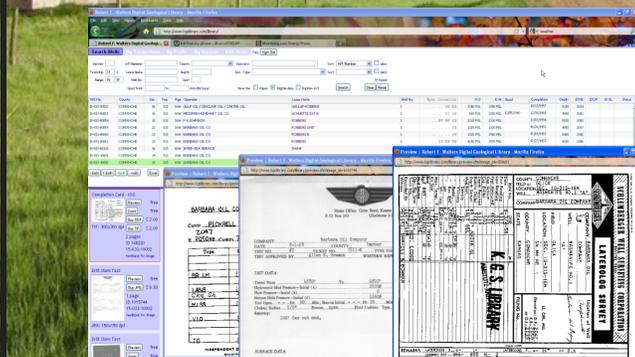
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## ON THE COVER:

**Angular Uncomformity**

**Grand Canyon, AZ**

**Photo by Marli Miller**

## CALL FOR PAPERS

The Kansas Geological Society Bulletin, which is published bimonthly in electronic format, seeks short papers dealing with any aspect of Kansas geology, including petroleum geology, studies of producing oil or gas fields, and outcrop or conceptual studies. Maximum length of papers is 6 pages as they appear in the Bulletin, including text, references, figures and/or tables, and figure/table captions. Inquiries regarding manuscripts should be sent to [manager@kgslibrary.com](mailto:manager@kgslibrary.com) or mailed to 212 N. Market, Ste. 100, Wichita, KS 67202. Specific guidelines for manuscript submission appear in each issue of the Bulletin, which can also be accessed on-line at the Kansas Geological Society web site at <http://www.kgslibrary.com>

# SOCIETY Technical Meetings

January 29, 2020 Dr. Tony Walton's KU Petroleum Geology Class

Matt Kelly and Niyi Ajobiewe - Demand NW and Bison Cliffs Fields in Lane County

Razan Alzayer and Hasan Karaimi - Triangle Field in Thomas County

Romesha Abimbola - Lela South Field in Pratt County

February 12, 2020 Dr. William Coffey - Managing Director of Chimney Hill Energy Partners  
*"Geology is Now a New Concept"*

February 26, 2020 Dr. Michael Smith - President of Advanced Hydrocarbon Survey - Title TBA

Save the Date  
KGS 2020 Golf Tournament  
September 28, 2020  
Terradyne Country Club  
Wichita, KS

Please remember to check the website for the most up to date information on Technical Talks  
<http://www.kgslibrary.com/techtalks.cfm>

Tech Talks are held at Landmark Square  
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*Note: For those geologists who need 30 points to renew their licenses, there will be a sign-in sheet at each presentation and also a certificate of attendance.*



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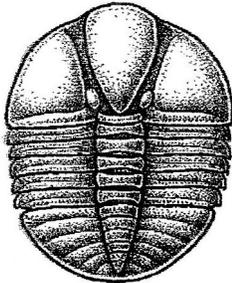
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**Randy Lilak correctly identified  
The last one as: Harpides**

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Paleontology are prohibited from entering.



### *Kansas Geological Society (KGS) Medallion for Scientific Distinction and Excellence*

The Kansas Geological Society (KGS) Medallion for Scientific Distinction and Excellence may be given annually for peer-recognized, sustained significant scientific contributions to all facets of applied Kansas geology, including work either in Kansas or in surrounding states if the latter contributions pertain directly and significantly to Kansas geology. No more than one award may be given each year, an award does not have to be given every year, and members of the KGS Awards Committee that handle nominations for this award cannot nominate themselves for this award. The candidates need not be active KGS members, and they must be living at the time of selection. The primary consideration in the selection of a candidate shall be his or her sustained, published, significant contributions to any facet of Kansas geology. Contributions may be varied in form such as development of geologic concepts, advancement in discovery thinking, and recognized leadership in exploration concepts. Oral and/or written publications in peer-reviewed geological venues is a requisite criterion for any candidate for this award. The name of a candidate shall be presented by the Awards Committee to the KGS Board of Directors for their approval. Once approved, the recipient shall be presented an appropriate award in the form of a medallion or plaque recommended by the Awards Committee and approved by the Board of Directors at the annual business meeting of the society. This is a new award given by the KGS for distinction and achievement in Geological research in Kansas.

Awards Committee members are Sal Mazzullo, Mike Dealy and Alfred James.

# President's Letter

Greetings fellow Society members!

I hope you all had a safe and blessed holiday season and now are ready to tackle the New Year with its challenges and opportunities! As I write this it is Jan 1, 2020. This is a good time to review and plan, just like every day this year.

As we start the year it is also a good time to reflect on who we are. We are the Kansas Geological Society. We are a voluntary association of individuals working together on behalf of our profession. Do we work together always? Should we? As a society what does that cover? Do we look at rocks only? Do we define our science or does our scientific mind define us?

In my mind we are so much more. We are optimists, dreamers, and explorers. We are educators, businessmen, and competitors. We act primarily as scientists but frequently wear the hat of accountant and engineer. We are students of nature, cheerleaders, and near the top of the list, survivors.

We are also part of 600 strong members driving an industry that is crucial to our states' economy. Our efforts create wealth, jobs, and opportunities. Our efforts fund communities, counties, and our state. It is our ideas first that drive the investment to follow. We recommend, demonstrate, map, and sometimes coerce, and hopefully the funds to chase our dreams follows.

We live in a state that encourages our business. In surrounding states our peers sometimes face a hostile environment. Against this backdrop is a much larger society that runs on fossil fuels. It is likely to stay that way for the next 50 plus years.

Wherever we are today, we are at our peak of cumulative knowledge and oil finding skills. Next year we will know and understand even more. I believe I will find more oil in the next 10 years than I found in the first 30. I believe we all share that same dream. It's why we do what we do.

We love looking at rocks 250 million years old. As rare as moon rocks as to how many people will see them. We do it every month when we watch a well or pull samples from the survey.

We are also part of an organization that will help us more individually, than we are able to help it. That is something that must change as we prepare for the future.

We need to be more than the professional society that we belong to. We must be mentors to each other. We should be whetstones for each other, sharpening one another, pushing us to a fine edge.

We must be forward looking. We must be willing to get things done. It means stepping up. We need to prepare for our future and our profession. What are we doing today to make it possible for future geologists to continue doing the work we do? We must make the decision to lead and using all our abilities, build a society that can flourish in the future.

As we tackle the New Year with its challenges and opportunities I would like to thank Doug Louis and Kevin Davis who accepted the role as my advisors. Please thank them and if you want to get word to me please feel free to use them as conduits.

As our membership continues to age I challenge you to look ahead at the next 50 years. Rather than retire and step away from what you love, make the decision to step up and lend your wisdom to our Society.

I view this coming year as full of excitement and opportunity for all of us. Do you want to watch us, or join us? We enrich others and ourselves when we flex our minds. For more of my ideas please join me at the KGS annual banquet Jan 24th as we together, lay out a vision for our future.

Come listen to the story I can tell you.

With best regards to all of my fellow society members!

Tim Lauer  
President, 2020



## AAPG Section Meeting Updates For 2020

<b>Pacific Region</b>	<b>April 4-8</b>	<b>Oxnard, CA</b>
<b>Southwest</b>	<b>June 23-26</b>	<b>Ruidoso, N.M.</b>
<b>Eastern</b>	<b>Sept. 13-15</b>	<b>Champaign, IL</b>
<b>RMAG</b>	<b>Sept. 13-15</b>	<b>Grand Jct., CO</b>
<b>Gulf Coast</b>	<b>Sept. 30-Oct 2</b>	<b>Lafayette, LA</b>

**Mid-Continent Biennial Field Conference**  
**October 9-11, 2020    Rolla, MO**

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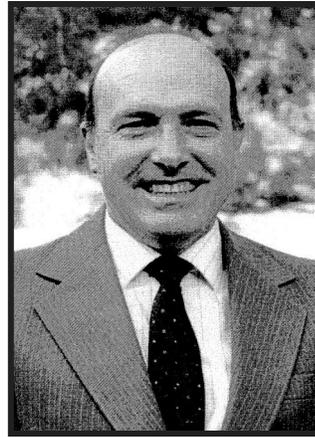
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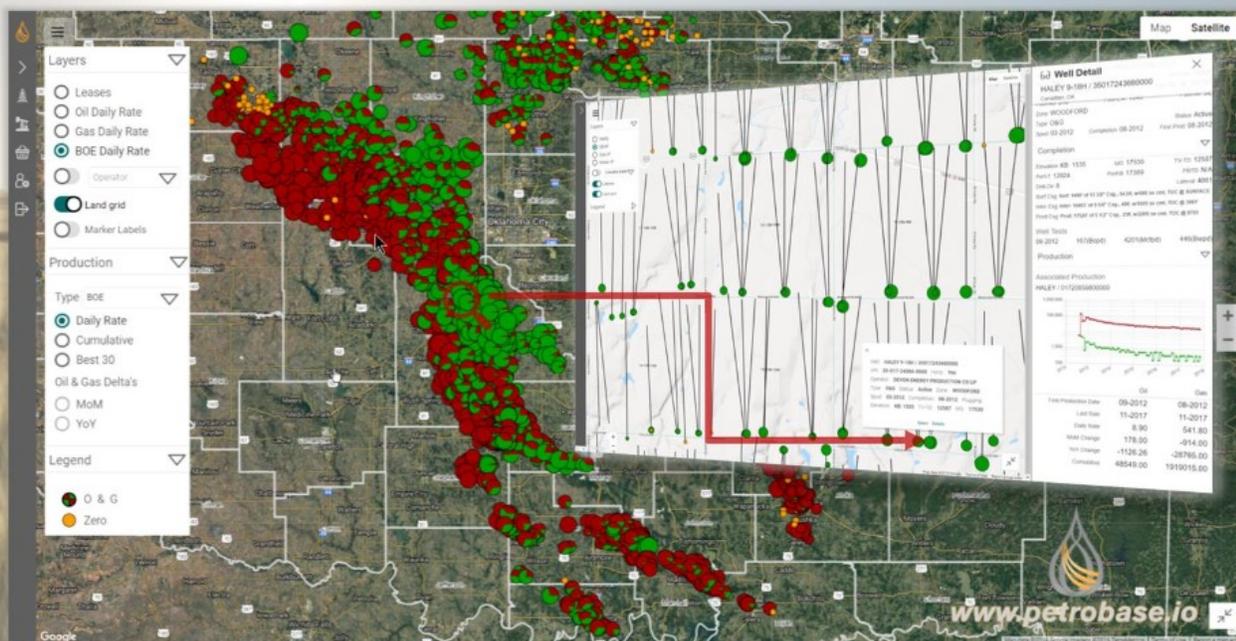
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# An Open Invitation to Young Geologists to Join AAPG

I would like to extend a special invitation to recent graduates and other young geological professionals to join AAPG. There are many young geologists outside the Wichita area that I have never met. They may work out of Great Bend or Hays, Kansas working with smaller oil and gas producers or working on their own as well site geologists. Kansas does have a future for the foreseeable future. The time is now to meet others from larger regional companies to forge a relationship for future employment. Young minds will be needed to replace those retiring and that other bad option.

I joined AAPG late in my career, much to my regret. I now serve voluntarily as a delegate for the Mid-Continent Section representing the Kansas Geological Society.

Respectfully yours,

Wesley D. Hansen  
Bulletin Editor and AAPG Delegate

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## Honorary Member Profile of Salvatore “Sal” Mazzullo

Sal was born in Brooklyn, New York in 1948. He was the oldest of three boys and one girl. Sal, Louis, James, and Georgia were born to Joseph and Mary Mazzullo.

Sal went to Brooklyn College and graduated with a BS in Geology in 1969 and a MS degree in 1971. He enrolled at Rensselaer Polytechnic Institute where he studied under Dr. Gerald Friedman. He graduated with a PhD in 1974.

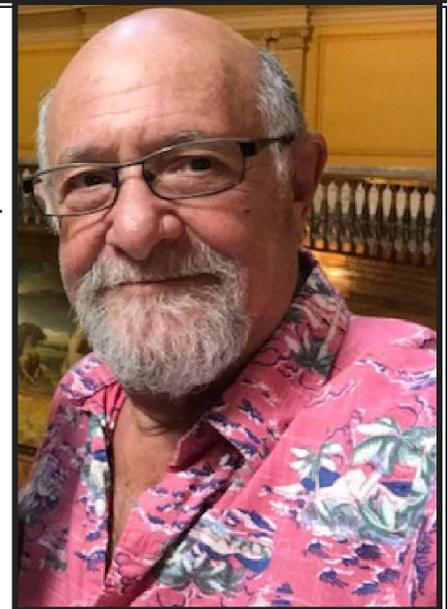
In 1975, he was hired at Texaco Research Laboratory in Houston, as the Senior Research Geologist. There he learned the “Texaco Way”. What he learned was he did not enjoy Houston, the “Way” or Texaco.

Later that same year he took a position as an Assistant Professor of Geology at the University of Texas Permian Basin, in Odessa, Texas. He taught at Odessa for three years. While there he ran field trips for Chevron teaching their employees carbonate deposition. Phillips Petroleum had him work on the Central Basin Platform. These field trips got him noticed by a number of geologists and companies. One of those was a VP for Union Texas Petroleum who hired him in 1978 for nearly six times what he was making at the university. He worked on stratigraphic trap prospects in Pennsylvanian and Permian rocks in the Permian Basin. In 1979, he studied carbonate depositional environments in the Gulf of Mexico and the Caribbean, which included the coastal waters of Belize.

From 1981 to 1987, he worked in Midland, as a petroleum consulting geologist for many domestic and international oil companies.

In 1987, a position opened at Wichita State University teaching courses in carbonate sedimentology and petroleum geology. He was working with Dr. James Gundersen, Dr. John Gries, Dr. Collette Burke and Dr. Bill Bischoff. He worked at WSU until 2012 when he retired. Since leaving WSU he has been working as a petroleum consulting geologist for a number of both large and small companies trying to determine the Mississippian stratigraphic architecture, depositional environments, and outcrop to subsurface correlations.

Since retiring, Sal and Chellie have been traveling extensively to many locations in the U.S. as well as in Europe and Belize. Sal has two children from a previous marriage: Joseph Mazzullo, a nurse practitioner in Bakersfield, California, and Lainie Hart of Wichita, working at Strategic Communications at WSU; and he has 4 grandchildren, all girls. Sal's hobbies include fishing, gardening, traveling, wine and micro-brew tastings; and most recently, playing and singing early rock and roll music with Dave Clothier as half of The Elderly Brothers. He has studied Korean Tae Kwon Do for 40 years and holds a 5th degree black belt in the art.



# *Annual Banquet*



Friday, Jan 24, 2020  
at the Petroleum Club

5:30-7:00pm.....Happy "Hour"  
7:00-8:00pm.....Buffet Dinner

.....8:00pm.....

Installation of Officers & Directors  
Presentation of Awards  
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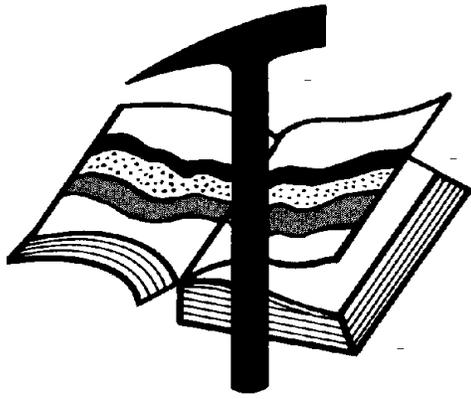
  
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- promote geology and earth science
- preserve geological records
- establish memorials and endowments
- support field trips and seminars
- financial aid and grants to students

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## **Kansas Geological Foundation Services**

The Kansas Geological Foundation provides the following services as a part of the organization's commitment to educate the public regarding earth science.

### **Speaker's Bureau**

A list of speakers available to talk about various aspects of geology may be obtained by contacting Wes Hansen at the KGS Library, 265-8676. This service is free to the public.

### **DVD/Videotape Library**

The KGF maintains a DVD & videotape library focused primarily on the various fields of earth science. These tapes may be checked out without charge by the public. To obtain a list of tapes, please contact the KGS Library, 212 N. Market, Ste. 100, Wichita, KS 67202, or call Wes Hansen at 265-8676.

The Kansas Geological Foundation was founded in March, 1989 as a not-for-profit corporation under the guidelines of section 501(c)(3) of the tax code to provide individuals and corporations the opportunity to further the science of geology. It is dedicated to providing charitable, scientific, literary and educational opportunities in the field of geology for the professional geologist as well as the general public.

KGF can receive in-kind donations through which the donor may receive a tax deduction. Of equal importance, the KGF provides the financial resources to sort, process and file this data at the KGS library. If you have a donation to make, please contact the KGF at 265-8676.

Your tax-deductible membership donation helps to defray the cost of processing donations and to support public education programs about the science of geology. Annual membership begins at \$50.00 per year. Donations of \$100.00 or more are encouraged through the following clubs:

<b>Century Club</b>	\$ 100 to \$ 499
<b>\$500 Club</b>	\$ 500 to \$ 999
<b>Millennium Club</b>	\$1000 to \$5000
<b>President's Club</b>	\$5000 and over

# *Kansas Geological Foundation*

## *Cornerstone*

### *Kansas Geological Foundation News*

#### Spring 2020 Scholarship Recipients

Applicant	University	Scholarship	Amount
		KGF Scholarship	\$500
		KGF Scholarship	\$750
		Robert Cowdery KGF Scholarship	\$1000
		KGF Scholarship	\$750
		KGF Scholarship	\$750

**Editor's Note:** The KGF Board has not released the Spring 2020 Scholarship recipients or and grant recipients names as yet.

### **The Kansas Geological Foundation Needs You!**



The KGF provides the financial resources to sort, process and file, in-kind donations of geological data at the KGS library. Due in large part to the KGF this unique and rare well of information is being made available to all. Please consider telling your company management and colleagues about the benefits of a library that continues expanding in part because of the KGF.

**We very much value and need your financial support.**

#### **KGF Officers and Board Members**

**President- Dennis Hedke**  
**Vice President - Michel Runnion**  
**Treasurer - Ryan Dixon**  
**Secretary - Ted Jochems**

#### **Board Members**

**Dave Callewaert**      **Mark Galyon**  
**Larry Friend**        **Corey Baker**  
**Mark Thompson**

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**Scholarships - Maurice Korphage**  
**Publicity - Wes Hansen**

# *Kansas Geological Foundation News*

Students: The KGF awards scholarships each December and May. Check with your department chairs for applications. You must submit complete applications by the deadline.

**Scholarship Applications for the Fall semester will be due by May 1, 2020.**

Grants to help with research on Kansas related geology are also considered for aid.

If you are in the KGS Library and see Ted Jochems or any of the integrators, give any of them a great big thanks for their efforts in continuing the tedious process of examining, scanning and integrating new logs and geologist's reports etc. into our library and the WDL.

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As of January 1, 2020, the Foundation has **two full time employees** working on well log integration: Helen Cruz and Shuyao Li (a.k.a. Emily) along with Ted Jochems. They work forty hours per week, with Ted Jochems putting in 20-30 hours. More than a dozen other part-time integrators have worked on the project since 2010.

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## **Grant Request Recipients**

### **Integration Update as of September 30, 2019**

From 01 January to 30 September of 2019, 21,900 well logs were examined by the integrators. 5,889 were new logs for the Walters Digital Library. 1,818 logs were re-scanned to replace poor existing digital images.

Over the nine year history of the integration project, 216,487 well logs have been examined. 62,934 (29.1%) were new to the WDL, with 6,288 logs re-scanned to replace poor existing images.

**PLEASE SUPPORT THE INTEGRATION PROJECT BY DONATING  
FINANCIALLY TO THE KANSAS GEOLOGICAL FOUNDATION**

Submitted by Ted Jochems

## *Kansas Geological Foundation Memorials*

KGS Member	Date Deceased	Memorial Established
Dan Bowles	09/89	1990
John Brewer	10/89	1990
George Bruce	08/89	1990
Robert Gebhart	01/90	1990
Ray Anderson, Jr.	11/90	1990
Harold McNeil	03/91	1991
Millard W. Smith	08/91	1991
Clinton Engstrand	09/91	1991
M.F. "Ted" Bear	10/91	1991
James & Kathryn Gould	11/91	1991
E. Gail Carpenter	06/91	1993
Benton Brooks	09/92	1992
Robert C. Armstrong	01/93	1993
Nancy Lorenz	02/93	1993
Norman R. Stewart	07/93	1993
Robert W. Watchous	12/93	1993
J. George Klein	07/94	1994
Harold C.J. Terhune	01/95	1995
Carl Todd	01/95	1995
Don R. Pate	03/95	1995
R. James Gear	05/95	1995
Vernon Hess	06/95	1995
E. K. Edmiston	06/95	1995
Jack Rine	07/95	1995
Lee Cornell	08/95	1995
John Graves	10/95	1995
Wilson Rains	10/95	1995
Heber Beardmore, Jr.	09/96	1996
Elmer "Lucky" Opfer	12/96	1996
Raymond M. Goodin	01/97	1997
Donald F. Moore	10/92	1997
Gerald J. Kathol	03/97	1997
James D. Davies	08/88	1997
R. Kenneth Smith	04/97	1997
Robert L. Dilts	05/97	1997
Delmer L. Powers	06/72	1997
Gene Falkowski	11/97	1997
Arthur (Bill) Jacques	01/98	1998
Bus Woods	01/98	1998
Frank M. Brooks	03/98	1998
Robert F. Walters	04/98	1998
Stephen Powell	04/98	1998
Deane Jirrels	05/98	1998
William G. Iversen	07/98	1998
Ann E. Watchous	08/98	1998
W.R. "Bill" Murfin	09/98	1998
Donald L. Hellar	11/98	1998
Joseph E. Rakaskas	01/99	1999
Charles W. Steincamp	02/99	1999
Robert and Betty Glover	10/96	1998
Howard E. Schwerdtfeger	11/98	1999
W. W. "Brick" Wakefield	03/99	1999
V. Richard Hoover	01/00	2000
Warren E. Tomlinson	01/00	2000
James A. Morris	01/00	2000
Eric H. Jager	03/00	2000
Kenneth W. Johnson	03/00	2000

## *Kansas Geological Foundation Memorials*

KGS Member	Date Deceased	Memorial Established
Dean C. Schaake	03/00	2000
Fred S. Lillibridge	05/00	2000
Jerry A. Langrehr	07/00	2000
Clark A. Roach	07/00	2000
Floyd W. "Bud" Mallonee	10/00	2000
Ralph W. Ruuwe	09/00	2000
Robert L. Slamal	02/01	2001
Jerold E. Jespersen	06/01	2001
William A. Sladek	06/01	2001
Harlan B. Dixon	06/01	2001
Edward B. Donnelly	08/01	2001
Richard P. Nixon	02/02	2002
Robert W. Frensley	12/01	2002
Gerald W. Zorger	01/02	2002
Don L. Calvin	03/02	2002
Claud Sheats	02/02	2002
Merle Britting	2002	2002
Harold Trapp	11/02	2002
Donald M. Brown	11/02	2003
Elwyn Nagel	03/03	2003
Robert Noll	09/03	2003
Benny Singleton	09/03	2003
Jay Dirks	2003	2003
J. Mark Richardson	02/04	2004
John "Jack" Barwick	02/01	2004
Richard Roby	03/04	2004
Ruth Bell Steinberg	2004	2004
Gordon Keen	03/04	2004
Lloyd Tarrant	05/04	2004
Robert J. "Rob" Dietterich	08/96	2004
Mervyn Mace	12/04	2004
Donald Hoy Smith	04/05	2005
Richard M. Foley	06/05	2005
Wayne Brinegar	06/05	2005
Charles B. Moore	09/96	2005
Jack Heathman	05/06	2006
Charles Kaiser	09/06	2006
Rod Sweetman	08/06	2006
Karl Becker	10/06	2006
Frank Hamlin	10/06	2006
Marvin Douglas	12/06	2006
Robert W. Hammond	04/07	2007
Eldon Frazey	04/07	2007
Pete Amstutz	05/07	2007
Charles Spradlin	05/07	2007
Donald R. "Bob" Douglass	09/07	2007
Vincent Hiebsch	11/07	2007
Glen C. Thrasher	03/08	2008
Peg Walters	06/08	2008
Theodore "Ted" Sandberg	07/08	2008
James Ralstin	11/08	2008
Earl Brandt	04/09	2009
Walter DeLozier	05/09	2009
Don D. Strong	1/10	2010
John Stone	02/10	2010

## *Kansas Geological Foundation Memorials*

KGS Member	Date Deceased	Memorial Established
Craig Caulk	03/10	2010
Joseph E. Moreland, Jr.	03/10	2010
Gene Garmon	03/10	2010
James F. Dilts	05/10	2010
Jerry Pike	05/10	2010
Donald Hollar	06/10	2010
Delbert Costa	08/10	2010
John Tanner	08/10	2010
William (Bill) Owen	09/10	2010
Harold (Hal) Brown	10/10	2010
Edmund G. Lorenz	11/10	2010
Thomas E. Black	05/11	2011
Wayne E. Walcher	07/11	2011
Henry F. Filson	07/11	2011
Thomas Ray	07/11	2011
Edgar E. Smith	09/11	2012
Marilyn Messinger	06/13	2013
Micheal Mitchell	09/13	2013
Orvie Howell	11/13	2013
James Thompson	11/13	2013
Dick Rowland	09/13	2014
Robbie Thompson	12/13	2014
Kris Kennedy	04/14	2015
Annette Hedke	02/15	2015
James Devlin	04/15	2015
Robert Gensch	09/15	2015
Jerald Rains	05/16	2016
Max Houston	05/16	2016
Robert "Gus" Messinger	01/17	2017
Jimmy Wayne Gowens	04/17	2017
Walter H. Martz Jr.	01/18	2018
Gary Sandlin	01/17	2018
Douglas McGinness	12/16	2018
Allen Siemens	06/18	2018
Ernest R. "Ernie" Morrison	09/18	2018
E. G. "Elbie" McNeil	12/18	2018
Robert Maxwell (Bob) Euwer	1/19	2019
J. Fred Hambright	12/18	2019
W. Lynn Watney	7/19	2019

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**The KGS Bulletin is now published in digital format only. One may view the pdf on the Kansas Geological Society website. It can be read online or printed on your printer.**



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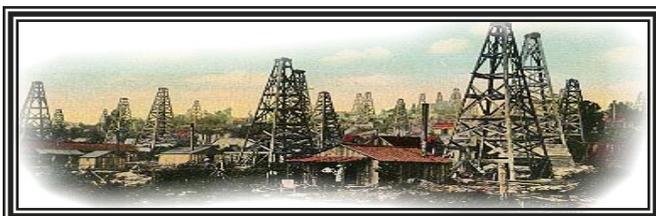
The logo for Duke Drilling Company features the word "DUKE" in large, bold, black letters at the top. Below it, a silhouette of a drilling rig is centered. The words "DRILLING" and "COMPANY" are written in bold, black letters on either side of the rig. Below the rig, the text "ROTARY DRILLING CONTRACTOR" is written in a smaller, bold, black font. At the bottom, contact information is provided in two columns: "620 Hubbard PO Box 823 Great Bend, KS 67530 Phone 620-793-8366" on the left and "100 S. Main, Ste. 410, Wichita, KS 67202 Phone 316-267-1331 Fax 316-267-5180" on the right.

*Your Company*

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### BULLETIN CONTENT POLICY

Effective January 1, 2018, only ads for service companies and geologists offering their services will be permitted in the KGS Bulletin. Furthermore, only content of geologic interest or official KGS functions (technical talks, annual banquet, golf tourney, picnic etc.) will be permitted in this bulletin. This policy is in keeping with maintaining a professional standard for this publication. Any interpretation of this policy rests solely with the editor of this bulletin.



### **AAPG Needs You!**

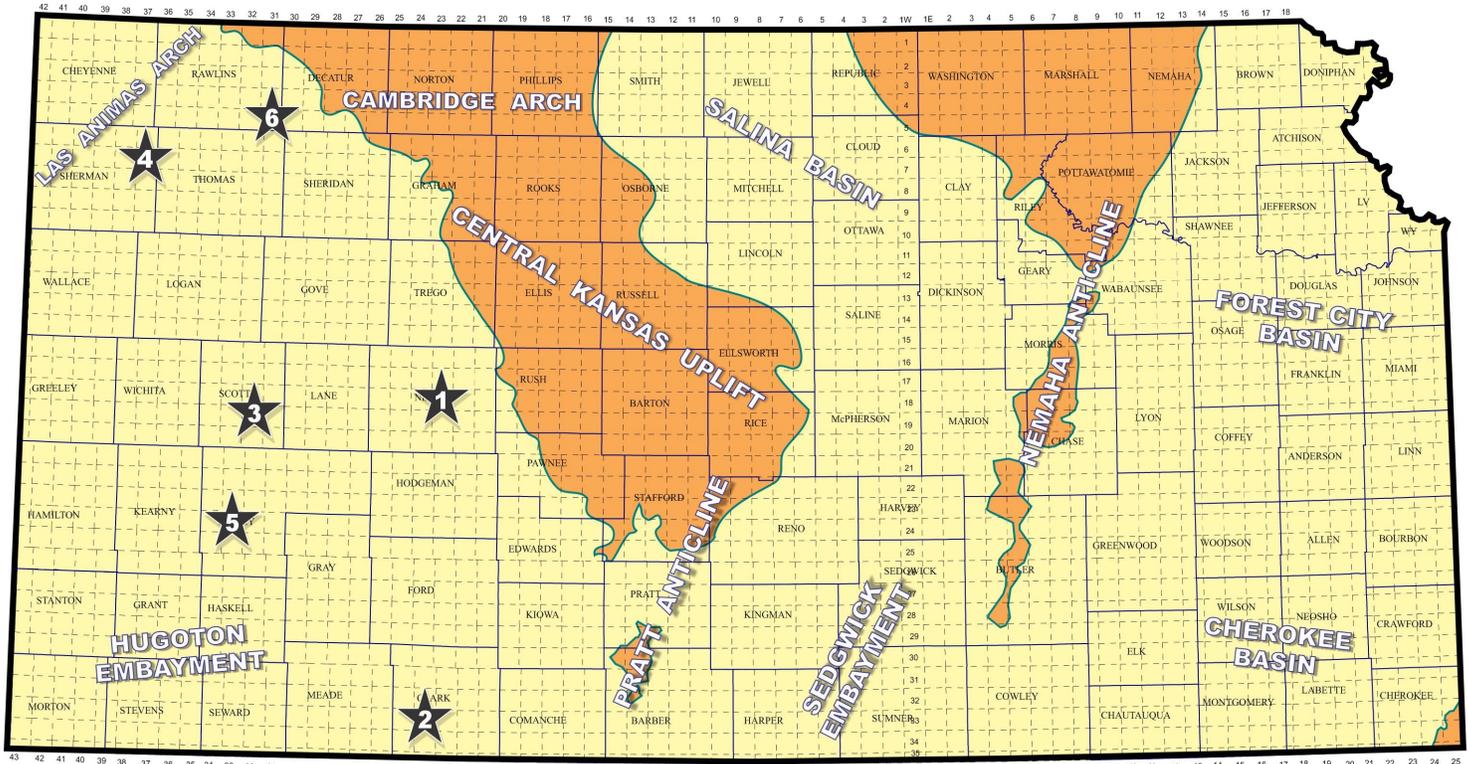
**Professional geoscientists, share your world!**

The Mid Continent Section has 17 AAPG Student Chapters, but only 3 Visiting Geoscientists...which makes it almost impossible to have a professional geoscientist visit to each school at least once a year or even once every two years. The aim of AAPG's program is to give students a flavor of a professional life in energy resources. It also hopes to encourage dialog between industry and academia.

To be a Visiting Geoscientist bearing the AAPG flag, you are asked to have at least 5 years of experience and make at least one visit per year to a university. It can be a school with an AAPG Student Chapter, or a college/university without one. Your choice.

The Mid Continent schools with Student Chapters are: Missouri University, Fort Hays State University, Iowa State University, Kansas State University, Missouri State University, University of Nebraska, Northwest Missouri State University, Oklahoma State University, University of Oklahoma, University of Arkansas, University of Iowa, University of Kansas, University of Missouri, Columbia University of Tulsa and Wichita State University.

Contact Robbie Gries, co-Chair VGP committee, Denver, if you are interested in learning more. [rrgries@aol.com](mailto:rrgries@aol.com)



Map courtesy of Marc Summerville

1. L.D. Drilling, Inc., Great Bend (KS), has a new Mississippian (Osage) oil discovery in Ness County. The #1-13 Sampson Trust is producing an undisclosed amount of crude oil at site located in approximately NE SW NE in section 13- T18s- R23W. The wildcat found the new reserves almost two miles southwest of the Langer oil field (1974) where production began from the Osage formation until Cherokee oil was later discovered in the field in 2005. The Langer pool has produced nearly 218,000 bbls of oil to date. L.D. Drilling's latest oil field has not been named. (ref: 15-135-26077)

2. Jolen Operating Company, Oklahoma City (OK), has established the new Majestic oil field in Clark County with the successful completion of the #1-3 Philip Glen Trust, spotted in approximately SE NE SE in section 3- T33s- R24W. The new wildcat discovery well was drilled to a total depth of 7050 ft at site located seven miles west of Ashland, KS. Crude oil is being recovered from the Lansing - Kansas City formations. Details remain confidential currently. Other closest known production lies nearly three miles to the northwest in the Red Cliff oil field (1987), which produced around 7,700 bbls of oil from the Viola formation over a five-year period before being abandoned. (ref: API 15-025-21608)

3. Stelbar Oil Corporation, Wichita (KS), is producing oil from the Marmaton formation at the #1-2 Eaton in Scott County. The wildcat discovery well opens the new Range Rider oil field

about three miles south and four miles east of Scott City, KS. Sterling Drilling tools bottomed the well at a total depth of 4723 ft in the Mississippian formation. Drill site was chosen in approximately NE SE SW in section 2- T19s- R32W. Completion details are being held as confidential. The new reserves were discovered nearly two miles southwest of the Newby South oil field (1990), which also produced a small amount of oil from the Marmaton. (ref: API 15-171-21255)

4. Geosouthern Operating II LLC, of The Woodlands (TX), has discovered new oil reserves in the Lansing-Kansas City (K and L zones), upper Marmaton, and Pawnee formations at the #1-28 Cress new pool opener in Sherman County, northwest Kansas. The wildcat well was drilled to a rotary total depth of 5,000 ft at site located in approximately SW NW SE in section 28- T7s- R37W, about four miles north and thirteen miles east of Goodland, KS. Discovery well lies nearly two miles northwest of established production in the Gertrude West oil field (Marmaton and Cherokee - Johnson Zone oil), which was recently discovered by Chizum Oil LLC in section 35- T7s- 37W. Geosouthern's new oil field has not been named. (ref: API 15-181-20628)

5. Merit Energy Company LLC, Dallas (TX), has stepped nearly three-quarter mile northwest of existing oil production in the Cowgill Field (2015, Marmaton and Morrow Sand oil) to recover crude from the upper Morrow Sand at their #8 McWilliams (E) in Finney County. The infield discovery well was drilled to a total depth of 5146 ft at site located in approximately SE SW NW in section 21- T24s- R33W. No production details are available. The town of Holcomb lies about three miles northeast of the new discovery. (ref: API 15-055-22523)

6. Black Oak Exploration, Denver (CO), has discovered new oil reserves from the Marmaton (Fort Scott limestone) at the #1-29 Ryan, spotted in approximately SE NW NE in section 29- T5s- R31W, in Rawlins County. The new unnamed pool opener found the oil deposits one and one-half miles southeast of producing wells in the MJR East oil field, where the Marmaton (Pawnee limestone) and Shawnee (LeCompton limestone) formations have given up oil since 2012. No production information is available on Black Oak's new find. The 1-29 Ryan was drilled to a total depth of 4579 ft about seven and one-half miles south of the town of Achilles. The new oil field has not been named.



**CHANGE SERVICE REQUESTED**

KGS BULLETIN  
 January - February 2020

# January 2020

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 KGS Closed	2	3	4
5	6	7	8	9	10	11
12	13	14 KGS Board	15 KGF Board	16	17	18
19	20	21	22	23	24 KGS Annual Banquet	25
26	27	28	29 Tech Meeting	30	31	

# February 2020

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11 KGS Board	12 Tech Meeting	13	14	15
16	17 Library Closed Presidents Day	18	19 KGF Board	20	21	22
23	24	25	26 Tech Meeting	27	28	29