



KANSAS GEOLOGICAL SOCIETY

BULLETIN

Volume 96 Number 5

September - October 2021

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Mergerie Glacier, Alaska

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 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

All Technical Meetings will be on Zoom

- September 14-15 Midcontinent Carbonate Research Virtual Symposium - Kansas Geological Survey
16 Presentations
- September 22 Dr. Nicholas Hayman, Director , Oklahoma Geological Survey - *“Using Mechanical Experimentation to Explore Reservoir Response and Bringing the Oklahoma Geological Survey into a Blue-Green Economy”*
- October 27 Dr. Katie Stack Morgan, JPL NASA: *“Seeking Signs of Ancient Life in Jezero Crater with the Mars 2020 Perseverance Rover: Revisited”*
- December 8 Jaime Jimenez, Paragon Geophysical - *“Past. Present and Future of Seismic”*

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
212 N. Market—4th floor
In the Wisdom Center*



Note: For those geologists who need 30 professional development hours (pdh) to renew their licenses, there will be a sign-in sheet at each presentation and also a certificate of attendance.

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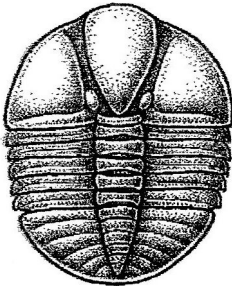
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**Randy Lilak correctly identified
The last one as: Harpides**

**Bulletin committee members and PhD's in
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

Editor's Note:

President Brian Fisher has been on vacation. A president's letter may be added later, but with KGS events for shooting and golf scheduled, it was imperative that this issue be posted to the website. The print addition of the bulletin will be sent out later.

Please RSVP quickly for the Shooting and Golf Tournaments. It is essential that we as a society support those that are willing to put these events together, as well as those entities that are willing to sponsor these events.



Also, note the Carbonate Symposium that is being held virtually on September 13 and 14 by the Kansas Geological Survey.

In addition, the MCS of the AAPG is being held in Tulsa from October 3-5. There are short courses and field trips before and after these dates.

Thanks for your support.

Wes Hansen

AAPG ACE and Section Meeting Updates For 2021

IMAGE 2021 September 26-October 1, 2021
Denver, CO

AAPG MCS October 3-5, Tulsa, OK

Mid-Continent Biennial Field Conference
Postponed until Fall of 2022 Rolla, MO

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For one-time ads, call Kent Scribner at 316-264-8378

Preliminary Notice

Prior to the 2022 billing for KGS membership, an email will be sent for Members to **OPT IN** for a printed version of the KGS Bulletin. The plan is that the Bulletin will be digital online for viewing or printed and mailed for those that choose that path. Those that choose to have a print version will have an additional charge added to their membership renewal. The estimated cost for a printed and mail copy of the Bulletin is in excess of \$25.00 per year,

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Memorial

George N. Mueller



George Nelson Mueller was born in Wichita on March 19, 1927. He passed away at home on August 4, 2021. He grew up on a family farm that was on the grounds of what is now the Cessna Aircraft Company. His mother Lillian was from Illinois and his father Wilhelm was from Missouri and had a farming background. He is preceded in death by a sister, Ruth Marten of Concordia, KS.

George attended a one room school located on what is now McConnell Air Force Base. He went on to attend Roosevelt Intermediate and East High School. At East High, George had many classmates who were later to become distinguished geologists. After graduation from Wichita East High in 1945, George spent two years in the Marine Corp. His entire tour of duty was at Camp Pendleton, Oceanside, California, where he worked in the Engineering Office as a surveyor and draftsman.

After his discharge from the Marine Corp in 1947 he enrolled at Wichita University. He was a member of the Men of Webster fraternity, where he made many lifelong friends. In his sophomore year, he made the decision to major in geology. His decision was influenced, in part, by his knowledge of his first cousin George Miller's successful activities in the oil industry. While attending WU, George found employment at Magnolia Oil Company in the position of "sample boy", and later as a draftsman.

In 1950, George married Bonnie Moore of Wichita. George and Bonnie celebrated their 70th wedding anniversary in December. They had two sons, both of whom followed George into the oil business. Randall is a retired petroleum engineer, and Scott is a retired petroleum geologist along with four grandchildren and four great grandchildren.

After graduation from Wichita University in 1952, George went to work for Mid-States in San Antonio and a year later had an opportunity to transfer back home to Wichita. In 1955 he went to work for NCRA. During his time at NCRA, he was involved in numerous oil prospects that resulted in significant oil discoveries. Most notable were the Elrick Field in Graham County, Kansas, and the Start Field in Ness County, Kansas. When NCRA announced that they were closing the Wichita office and move to Denver, George decided to commence a petroleum consulting business, which he operated it until his retirement. He provided wellsite geological supervision for hundreds of wells over his career, spending several weeks a month in the field. Over the decades of his career, he trained many younger geologists in wellsite geology.

In 1972, George purchased a farm near Peck, Kansas and pursued his love of farming on a part time basis. He maintained a large vegetable garden and a fruit orchard, and raised a wheat crop every year. When he was not working, "farm days" were his favorite recreation.

George was a longtime member of the American Association of Petroleum Geologists and an honorary member of the Kansas Geological Society. He served as Secretary/Treasurer in 1973, Vice President in 1983, and as President in 1984.

Survived by his wife, Bonnie J. Mueller; sons, Randall N. Mueller (Darla), D. Scott Mueller (Barbara); grandchildren, Brian Mueller, Aimee Norris (Jason), Justin Mueller, Evan Mueller (Danielle); great-grandchildren, Jonathan, Connor, Elisha Norris and Abram Mueller.

Private Family Graveside Service to be held. A memorial has been established with Wounded Warrior Project, P.O. Box 758516, Topeka, KS 66675-8516. Downing & Lahey Mortuary East Chapel.

In conversation with current KGS president, Brian Fisher, he asked that I place an announcement for any KGS members that seek wellsite geologic work to send their names and info to me at: manager@kgslibrary.com

If calls come in to the KGS seeking a consulting geologist, names will be given on a rotating basis through Rhonda.

Preference will be given to geologists who have professional ads in the KGS Bulletin.

Please be advised, that the KGS has not had calls, of this nature, for many years. Brian did, however, want interested parties to be in line for such work.

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**Friday, October 1, 2021
12:00 Noon to 4:00 p.m.**

**Shady Creek Sporting Clays Range
1252 N Oliver Rd., Belle Plaine, KS**

100 shot Sporting Clays

BBQ Lunch will be provided

As the cost of ammunition has increased, we are unable to provide shells
as we have done in the past and still keep our entry fee low.

Prizes awarded to top four overall in each of four flights. The breaks between flights will be determined
after the match is over. A drawing for door prizes will also be held after the match.

Entrants may include KGS members and supporters.

RULES

1. Eye and ear protection required.
2. Bring your own shells. They will be available to purchase onsite. (Only 7½, or smaller shot sizes are permitted.)
3. Shooters must provide own gun.
4. No pistol or rifle shooting permitted
5. No alcoholic beverages may be consumed prior to or during any shooting.

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Your half page ad would look great here.

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KANSAS GEOLOGICAL SOCIETY ANNUAL GOLF TOURNAMENT

Monday October 11th, 2021

Terradyne Country Club

1400 Terradyne Drive Andover, KS



4 Man Scramble
(Capped at 88 Golfers)

\$100 Entry Fee

\$5 Mulligans
(Limit 2 per Person)

Check in: 8:00 AM

Coffee & Donuts: 8:00 AM

Shotgun Start: 9:00 AM

Flighted Payout

Individual Hole Prizes



Registration Form

ALL ENTRIES MUST BE RECEIVED BY MONDAY, OCT 4th

Player 1 & team captain: _____

Email: _____ Phone: _____

Player 2: _____

Player 3: _____

Player 4: _____

Check here if you are registering as a single player and need to be placed on a team.

Amount Enclosed for Golf: \$ _____

All participants must adhere to the Terradyne Country Club dress code.
Collared shirts – no jeans

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(Phone: 316-265-8676)

For Questions contact Kevin Davis at kevincdavis56@gmail.com



Carbonate sedimentary rocks of the Midcontinent region of the United States have been studied for many decades and contributed to the development of fundamental concepts in sedimentology and stratigraphy. In addition to hosting active and mature hydrocarbon reservoirs, the carbonate intervals have more recently been targeted for CO₂ sequestration, and outcrops have served as analogs for emerging carbonate plays.

The organizing committee at the Kansas Geological Survey invites you to attend a virtual KGS Carbonate Symposium that will be held **14-15 September 2021**. The symposium program will feature multidisciplinary presentations from leading scientists and industry experts from across the Midcontinent region. The goal is to have an interactive session to share new research, learn best practices, recent developments, exchange ideas, and explore opportunities for future collaboration.

https://maps.kgs.ku.edu/kgs_web/mcr.html

[Day 1](#) and [Day 2](#)

For any questions regarding registration please contact: Blair Schneider (blair.schneider@ku.edu).

Listed below are some of the talks that will be presented.

Other talks still being finalized.

- C. Robertson Handford *“Tectonically Controlled Patterns of Contour-Current Deposition and Erosion in Outer Shelf, Lower Mississippian, Arkansas-Missouri-Oklahoma”*
- Abbas Seyedolali, Kurt Rottmann, Emilio J. Torres Parada, William Full, Brittany V. Stroud *“Geological Influences upon the Mississippian Pitkin Limestone/Caney Shale Formations in the Arkoma Basin”*
- Valerie L. Smith *“Static Earth Modeling and CO2 Storage Resource Estimates for Lansing and Kansas City Groups, Huffstutler Field, Kansas, USA”*
- Yaghoob Lasemi *“Paleokarst Development and Controls in the Cambrian Potosi Dolomite and Eminence Formation, Illinois Basin”*
- Phillip A. Bailey, Britney J. Temple, Jay M. Gregg - *“Early and Late Diagenetic Dolomitization of Arbuckle Group Carbonate Rocks, North Central Oklahoma and Southwestern Missouri”*
- Regina F. Dunseith, Jay M. Gregg, G. Michael Grammer - *“Fluid Histories of Middle Ordovician Fault-Fracture Dolomite Oil Fields of the Southern Michigan Basin”*
- Stephan C. Oborny, Franek J. Hasiuk - *“Regional stratigraphic analyses of a mixed carbonate-clastic setting in the Cherokee-Forest City Basin”*
- Michael P. Smith, Christopher Smith, Patrick Gordon, Timothy Smith *“Logging Reservoirs, Petroleum Systems, Wettability and CCS Viability of Midcontinent Carbonates Using Gentle Extraction Cryo-Trap Mass Spectrometry of Drill Cuttings’ and Cores’ Present-Day Volatiles”*
- Yulun Wang, Julie Cains, G. Michael Grammer, Jack Pashin, Jim Puckette, Mileva Radonjic - *“Facies Architecture and Reservoir Characteristics of the Caney Shale, Ardmore Basin, Southern Oklahoma, USA”*
- Steven Tedesco *“Low Temperature Hydrothermal Dolomitization of Mississippian and Ordovician Carbonates in the Denver and Forest City basins: a review”*
- Niyi Ajobiewe and George Tsouflias - *“Assessment of the Arbuckle in Western Kansas Using Inversion of 3D Seismic”*
- Robert Goldstein *“Paleozoic Brine Reflux: Its Impact on Diagenesis and Basin-Brine Composition in Major Onshore Oil-and-Gas Basins of the United States”*
- Andrew Hollenbach, Sahar Mohammadi, Robert Goldstein, Andreas Möller, Jay Gregg - *“Multiple Episodes of Hydrothermal Fluid Flow in the Midcontinent Revealed by U/Pb Dating, Petrography, and Fluid Inclusions”*
- Ibukun Bode-Omoleye, Evan K. Franseen - *“Understanding Pore Heterogeneity in Karst Carbonate Reservoirs”*
- Franek J. Hasiuk *“Rock Properties and Chemistries of Kansas Carbonate Aggregates: A Review of Data from Construction Material Inventories”*
- Diana Ortega-Ariza, Evan K. Franseen - *“Distribution Patterns of Low-Latitude, Shallow-Water Heterozoan and Photozoan Facies during Mississippian (Osagean-Meramecian) in Continental US, with Emphasis on Midcontinent Region”*

For further information about the symposium reach out to any of the conveners below.

Technical Committee

Dr. Diana Ortega-Ariza dianalo@ku.edu Dr. Ibukun Bode-Omoleye ibukun.bode@ku.edu

Dr. Franek J. Hasiuk franek@ku.edu Dr. Sahar Mohammadi sahar@ku.edu

Dr. Evan K. Franseen evanf@ku.edu

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OCTOBER 3-5, 2021



MID-CONTINENT
SECTION OF AAPG



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TECHNICAL THEMES FOR POSTER AND ORAL SESSIONS

- Geology of the Mid-Continent
- Geophysics of the Mid-Continent
- Energy Evolution: Future of Energy- 21st Century and Beyond
- Next Age of Making a Profit in the Mid-Continent
- Insights from the Permian Super Basin

FIELD TRIPS

- Depositional complexities of U Penn fluvial-dominated deltaic deposits, Skiatook Lake, *Lee Krystinik*
- The OZTrails Geology (Mountain Bike Tour) of Benton County, Arkansas, *Shane Matson*
- Geology of Redbud Nature Preserve and Stratigraphy of an Upper Pennsylvanian Cyclothem near Catoosa, *Whitney Campbell, John McLeod, and Doug Jordan*
- Tectono-Stratigraphic Evolution of the southern Mid-Continent Margin, *Mac McGilvery*

SHORT COURSES INCLUDE

- Fundamentals of Carbon Capture, Utilization, and Storage
- Machine Learning and Data Analytics
- Petroleum Systems Analysis/Geochemistry
- Geosteering Fundamentals

EXHIBITOR AND SPONSORSHIP OPPORTUNITIES STILL AVAILABLE!

FOR ADDITIONAL INFORMATION, CONTACT: Tara Benda, General Chair - aapgmcs2021@outlook.com

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Overlaid on the bottom left is a 'Completion Card - IOG' for Barbara Oil Co. with details for well 2047, including a price of \$2.00 and a 2-page PDF download option.

Overlaid on the bottom right is a 'Well Log' for well 2047, showing a depth of 1,890 feet and a completion depth of 1,910 feet. The log includes sections for 'TEST DATA' and 'SURFACE DATA', and is signed by Allen E. Bowman. The log also features the KGS Library logo and contact information for Barbara Oil Co.

In Memoriam

KGS and Industry Members Lost in 2020 and 2021

2020

**Lloyd K. Parrish, Jr.
Bruce A. Reed
Bob Scull
Thornton E. Anderson
Ronald S. Schraeder
Billy Gene Ree
Philip L. Hart**

2021

**Lee Banks
Richard “Dick” Smith
Timothy J. Lauer
Walter Innes Phillips
George N. Mueller
Jack W. Gabbert**

Attention:

**The KGF has several empty completion card cabinets for sale.
The price is \$50/cabinet with buyer responsible for pick up.**

**Also, many empty file cabinets are available as well.
Please contact Ted Jochems or Tyler Sanders through
the KGS at 316-265-8676**



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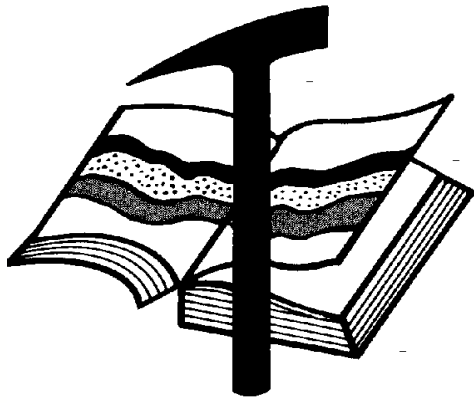
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Kansas Geological Foundation

Web Site: www.kgfoundation.org

**212 North Market
Wichita, Kansas 67202**

A not-for-profit educational and scientific corporation

GOALS:

- promote geology and earth science
- preserve geological records
- establish memorials and endowments
- support field trips and seminars
- financial aid and grants to students

PLEASE HELP SUPPORT THE FOUNDATION

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:

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

Kansas Geological Foundation

Cornerstone

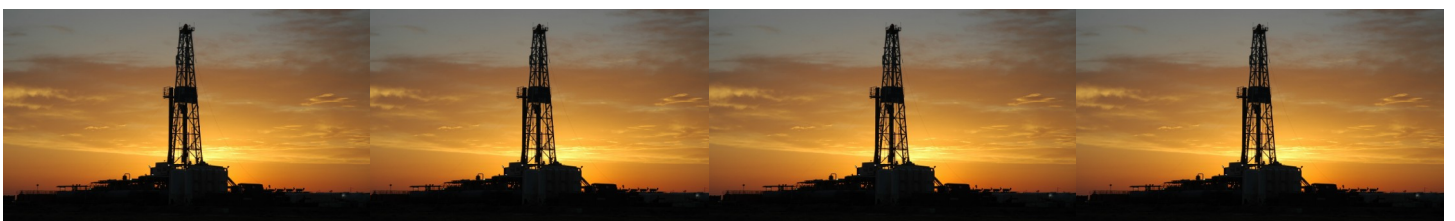
Kansas Geological Foundation News

Fall 2021 KGF Scholarship Recipients

Name	University	Scholarship	Amount
Skylar Kaminski	Kansas State University	Robert Cowdery Scholarship KGF Scholarship	\$1000
Riley Allen	Fort Hays State Univ.	KGF Scholarship	\$500
Riley Sanford	Fort Hays State Univ.	KGF Scholarship	\$500
Bryan Wooten	Fort Hays State Univ.	KGF Scholarship	\$500
Carrie Brooks	Kansas State University	KGF Scholarship	\$500
Rowdy Farris	University of Kansas	KGF Scholarship	\$500
Nicholas Ferry	University of Kansas	KGF Scholarship	\$500
Dustin Heese	University of Kansas	KGF Scholarship	\$500

KGF Grants

\$1000 to Vidhesh Shukla
Graduate Student from Kansas State University



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 Spring semester will be due by December 1, 2021.

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.

KGF Officers and Board Members

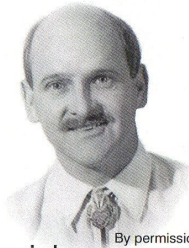
President - Michel Runnion
Vice President - Chris Steincamp
Treasurer - Corey Baker
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Board Members

Dave Callewaert **Mark Galyon**
Ryan Dixon **Mark Thompson**
Will Darrah

Scholarships - Maurice Korphage
Publicity - Wes Hansen

The Kansas Geological Foundation Needs You!



By permission

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.

Integration Update as of May 31, 2021

From January 1 through May 31, 2021, a total of 13,092 documents were examined by the integrators. A total of 1925 new documents were added to the WDL along with 1499 rescanned documents to replace poor images. This represents a 14.7% increase to the WDL.

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

Submitted by Ted Jochems

Thank you to the Current KGF Members

The Kansas Geological Foundation gratefully acknowledges the generous contributions from the following Individual and Corporate Donors during our yearend 2020 fundraising. From the Basic Membership up through the Millennium Class Members, we are deeply appreciative of your generosity in one of the most challenging times in our history. We wish you every success in the years and decades ahead.

Millennium Club

Steve Frankamp

Richard Jordan

Murfin Drilling Company, Inc.

500 Club

Don Beauchamp
Paragon Geophysical Services, Inc.
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Gore Oil Company
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Kansas Geological Foundation Memorials

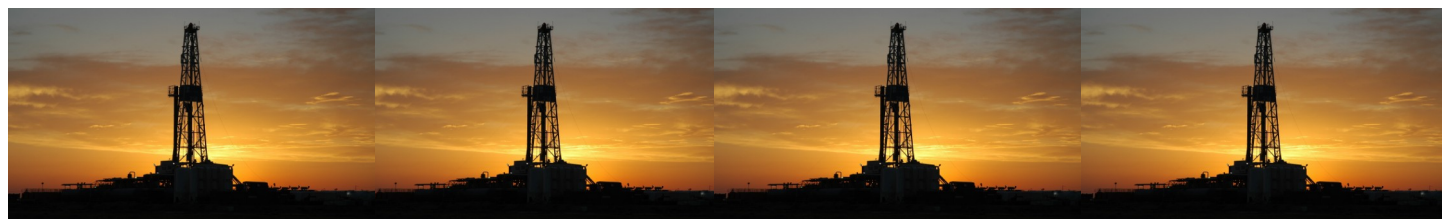
KGS Member	Date Deceased	Memorial Established
Dan Bowles	09/89	1990
John Brewer	10/89	1990
George Bruce	08/89	1990
Robert Gebhart	01/90	1990
Ray Anderson, Jr.	11/90	1990
Harold McNeil	03/91	1991
Millard W. Smith	08/91	1991
Clinton Engstrand	09/91	1991
M.F. "Ted" Bear	10/91	1991
James & Kathryn Gould	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
Craig Caulk	03/10	2010
Joseph E. Moreland, Jr.	03/10	2010

Kansas Geological Foundation Memorials

KGS Member	Date Deceased	Memorial Established
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
Byron Hummon	12/18	2019
Mike Raymond	11/19	2019
James Roberts, Jr.	3/19	2019
Herb Johnson	8/19	2020
Lloyd Parrish	2/20	2020
Bruce Reed	5/20	2020
Bob Scull	6/20	2020
Thornton E. Anderson	7/20	2020
Don Shawver	12/16	2020
Phillip Hart	12/20	2021
Timothy Lauer	05/21	2021



18 Drilling Rigs

To depth of 9,500 ft.



WESTERN KANSAS
SOUTHERN NEBRASKA
EASTERN COLORADO

For contract information contact:

William Murfin
Drilling Manager

316-258-8888 (Direct)
316-267-3241 (Main)

250 N. Water, Ste. 300
Wichita, KS 67202

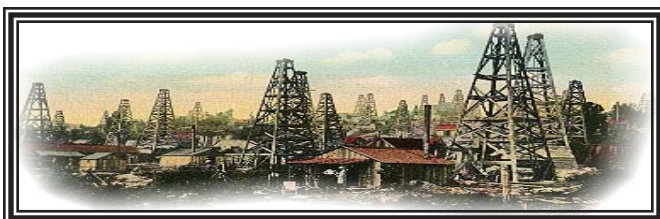
The logo for Duke Drilling Company features the word "DUKE" in large, bold, black letters at the top. Below it, a silhouette of a drilling rig is centered. The words "DRILLING" and "COMPANY" are written in bold, black letters on either side of the rig. Below the rig, the text "ROTARY DRILLING CONTRACTOR" 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.

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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 tournament, 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.

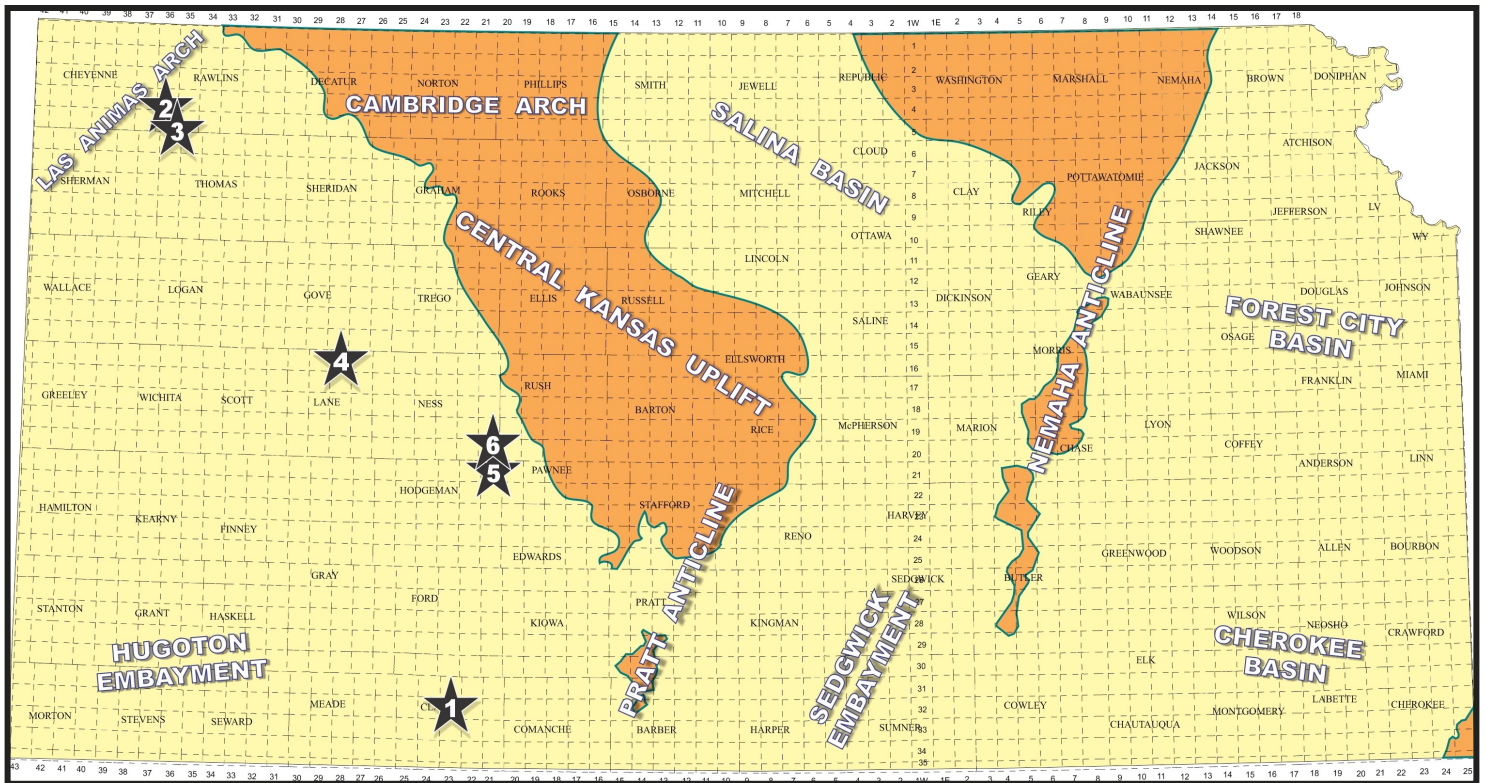
To be a Visiting Geoscientist bearing the AAPG flag, you are asked to have at least 5 years of experience and make at least one visit per year to a university. It can be a school with an AAPG Student Chapter, or a college/university without one. Your choice.

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

Exploration Highlights

By John H. Morrison, III
Independent Oil & Gas Service



Map courtesy of Marc Summerville

1. Mull Drilling Company, Wichita, KS., has discovered new oil reserves at a remote wildcat location in Clark County. The #1-30 Carter, spotted in approximately NE SE SW in section 30- T32s-R23W, is producing crude oil from an undisclosed formation over three miles northwest of closest recognized production in the Ashland Southwest field (1982, Lansing-Kansas City oil) in section 3-33s -23W. Viola oil production is also recognized four miles to the south of the Carter discovery in the Red Cliff (1987) and Red Cliff East (1987) oil fields. Completion information is being held confidential. Duke Drilling served as contractor and drilled the well to a total depth of 6,980 ft into the Arbuckle. The new unnamed field lies two miles north and four miles west of Ashland, KS. (ref: API 15-025-21617)

Downing-Nelson Oil Company, Hays, KS., has established two new oil fields in Rawlins County, northwest Kansas. Both fields are producing an undisclosed amount of crude from the Cherokee sandstone formation. Both remote wildcat wells lie between four to five miles west-southwest of recognized Cherokee oil production in the Minney and Mirage oil fields that were established in 2015 by Culbreath Oil & Gas Company, Tulsa, OK.

2. First, the #1-4 Poore was drilled to the Mississippian formation in April 2021. Total depth was 4,911 ft. The well was completed in mid-June at site located in approximately NW NE SE in section 4- T5s- R36W, about nine miles south of McDonald, Kansas. The new reserves were found over two miles from the Little Beaver Creek Southeast field (1978), which produced oil from the Lansing-Kansas City formation for 14 years prior to abandonment. Completion details remain confidential currently. Poore is the name of Downing-Nelson's new oil field. (Ref: API 15-153-21257)

3. In May this year, Downing-Nelson Oil also drilled the #1-16 Kramer-Scott Unit in approximately NW

SW NW of section 16- T5s- R36W. The wildcat well was drilled to a total depth of 4,870 ft. at location about two miles southwest of their Poore discovery well, and just over one mile northeast of the Tovrea Northeast field (2000, Lansing-Kansas City, Marmaton oil). Cherokee production in the vicinity comes from a depth around 4,460 to 4,560 ft. The new oil field is named the K-S field. (Ref: API 15-153-21258)

4. M G Oil, Russell, KS., is producing oil from the Lansing-Kansas City and Marmaton formations at the #15 Lawrence in Lane County. The new N & J East pool discovery well found reserves three-quarter mile west of similar production in the Demand Northwest field (1982), and one mile southeast of production in the N & J field (1972). Pickrell Drilling tools bottomed the well at a rotary total depth of 4,497 ft at site located in approximately NE NW SE in section 15- T16s- R28W, or one mile north and two miles east of Shields, Kansas. Completion detail is confidential. (Ref: API 15-101-22652)

5. Triple Crown Operating, LLC, Tulsa, OK., has discovered new Mississippian oil deposits just over one-half mile west from shallow Chase gas production in the Barrick field (2000) in Hodgeman County. The new deep pay discovery was made at the #1-5 Foreman Farm, approximately SE SE SW in section 5- T21s- R21W, about eight miles north and three miles east of Hanston, Kansas. Murfin Drilling tools were utilized to drill the well to a total depth of 4,317 ft. Completion details are being held confidential at this time. (ref: API 15-083-21983)

6. Elsewhere in Ness County, Triple Crown Operating, LLC has expanded Mississippian oil production in the Mount Carmel Southeast field one-half mile further south with the completion of the #1-34 Darlene. The step-out well was drilled to a total depth of 4,419 ft at site located in approximately NE NW SW NW in section 34- T20s- R21W.

KGS members please check your files

Fellow KGS members, please remember to check your files of elogs and geologist reports against the KGS paper library and the WDL before discarding them. I was contacted by John Morrison recently about a well I watched years ago that had some tops and DST info missing from his completion card. I took pics from my geo report of tops and DST results and sent them to John to update his card data. If I was to go through all of my files, I'm sure I have many logs and geo reports that are not in the files of either the KGS paper or the WDL. Before I hang things up in my career, I vow to go through all of my data and get it donated and scanned.

KCC rules allow an operator to hold information confidential for a two year period. As long as the well in question is older than the two year period, one can release the data. If one has concerns about alienating a client, of course, feel free to ask for permission.

Wes Hansen

CHANGE SERVICE REQUESTED

KGS BULLETIN
 September - October 2021

September 2021

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

October 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 KGS Shooting Tourney	2
3 AAPG MCS	4 AAPG MCS	5 AAPG MCS	6	7	8	9
10	11 KGS Golf Tourney Terradyne CC	12 KGS	13	14	15	16
17	18	19	20 KGF Board	21	22	23
24	25	26	27	28	29	30
31						