



KANSAS GEOLOGICAL SOCIETY

BULLETIN

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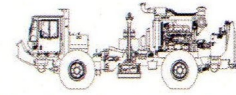
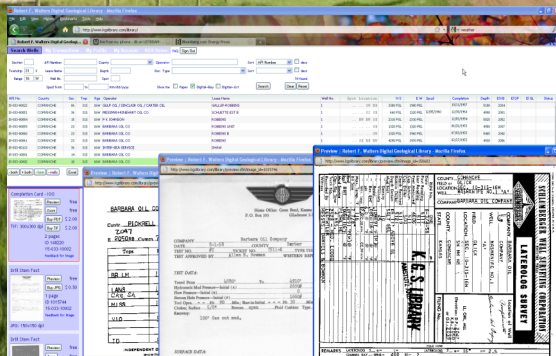
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Photo by Marli Miller

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 1704 S. Baehr, Wichita, KS 67209. 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 18, 2024 **Dr. Henry Agbogun, Fort Hays State Univ.: Discussing the AAPG MCS Field Conference October 18-20, Hays, KS**
- September 27, 2024 **Dr. Johnson, OGS - “Salt Plains & Brines in Western Oklahoma”**

Please remember to check the website for the most up to date information on Technical Talks

<http://www.kgslibrary.com/techtalks.cfm>

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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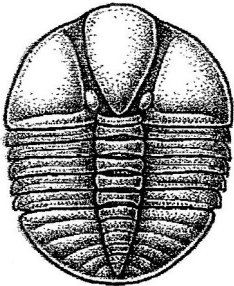
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2025

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**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 and Mike Dealy

AAPG IMAGE and Section Meeting

6th Biennial Field Conference
Mid-Continent Section of AAPG
October 18-20, 2024
Fort Hays State University
Hays, KS

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Editor's Page

Dear KGS members and friends,

Two events are scheduled for September and October. Dave Barker has set up the KGS Golf Tournament at Rolling Hills CC on September 26, 2024. There will be 6 man teams. Please see registration and other info on pages 16-17. A big thanks to Dave for stepping up to preserve this event. Seth Evenson is planning to stage the next Annual Larry Richardson Memorial Shooting Tournament on October 25, 2024. Details are to follow. Thanks to Seth for handling this event.



I want to also remind the membership and other interested parties of the AAPG MCS field conference from October 18-20 in Hays, Kansas. Fort Hays State University is hosting the event. Full information is on pages 12-15.

Respectfully,
Wes Hansen



Save the Date October 25, 2024
KGS Larry Richardson Memorial
Shooting Tournament

An Up-To-Date West and East range card file set is up for offers.

This is the **Koch Oil Company's** set.

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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



2024 AAPG Midcontinent Section

Biennial Field Conference

"The Cretaceous Western Interior Seaway: Depositional Environments and Paleontology"



**DEPARTMENT OF GEOSCIENCES,
FORT HAYS STATE UNIVERSITY, HAYS KS, 67601**



18 - 20 October, 2024

**THE SIXTH BIENNIAL FIELD CONFERENCE
MID-CONTINENT SECTION AAPG
OCTOBER 18-20, 2024
GEOSCIENCES DEPARTMENT
FT. HAYS STATE UNIVERSITY
*“THE CRETACEOUS WESTERN INTERIOR SEAWAY:
DEPOSITIONAL ENVIRONMENTS AND PALEONTOLOGY”***

Friday Oct. 18

Registration 10:00 AM - 6:00 PM

Tours of Geosciences Department 10:00 AM - 4:00 PM

Student poster presentation and competition 10:00 AM - 4:00 PM

Keynote Speakers: 1:30 - 4:30 PM

Nathan A. Randolph, President MCS AAPG

Deborah K. Sacrey, President AAPG

Dr. Laura Wilson, Chief Curator Sternberg Museum

Other Speakers

Ice Breaker: 5:00 - 7:00 PM. Hors d'oeuvres will be served. Cash Bar

Saturday Oct. 19

Loading buses (designated area) 7:30 - 8:00 AM, box lunch provided

Field excursion 8:00 AM - 5:00 PM return to Hays, KS

Cretaceous Outcroppings

Monument Rocks

Little Jerusalem Badlands State Park

Conference Dinner 7:00 - 8:30 PM

Sunday Oct. 20 Sternberg Museum of Natural History 7:45 AM- 12:00 Noon

Additional info to follow

6TH BIENNIAL AAPG MID-CONTINENT SECTION FIELD CONFERENCE FORT HAYS STATE UNIVERSITY OCTOBER 18 - 20, 2024

**THE CRETACEOUS WESTERN INTERIOR SEAWAY:
DEPOSITIONAL ENVIRONMENTS AND PALEONTOLOGY**



Niobara Formation, Montrose, Jewel County KS



Dakota Formation, Dorrance, Russell County KS



Greenhorn Formation, Russell, Russell County KS



Niobara Formation, Castle Rock, Gove County, KS

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FHSU DEPARTMENT OF GEOSCIENCES: [GEOSCIENCES@FHSU.EDU](mailto:geosciences@fhsu.edu)**



AAPG Mid-Continent Field Conference 2024

The Cretaceous Western Interior Seaway: Depositional Environment and Paleontology

The Department of Geosciences at Fort Hays State University and Kansas Geological Society invites you to the 6th biennial field conference of the American Association of Petroleum Geologists Midcontinent Section (AAPG MCS) from October 18 - 20, 2024

Fort Hays State University

Fort Hays State University was founded in 1902 and was originally located on the grounds of Fort Hays, a Nineteenth-Century frontier military outpost. It is a regional comprehensive public university located in Hays, KS in the great plains of the American Midwest.

Conference General Information

The conference is designed for professional geologists in the industry and government agencies as well as students and faculty in academia.

Downloadable Announcement Flyer

please share with those who may be interested.

--- Schedule ---

Friday October 18th, 2024, 12:00 noon - 8:00 pm

- Arrival
- Registration and Check-in
- Poster Session
- Keynote Addresses
- Vendors Exhibition
- Tour of Department of Geosciences at FHSU
- Welcome and Icebreaker

Saturday October 19th, 2024, 8:00 am - 8:00 pm

- Field Trip
- Guest and Spouse Activities
- Dinner

Sunday October 20th, 2024, 8:00 am - 12:00 noon

- Tour of the Sternberg Museum of Natural History
- Departure

--- Registration ---

Early bird registration (before September 25th, 2024)

- Industry and Government Professional: \$350.00
- Faculty/Academic: \$250.00
- Guest /Spouse: \$175.00
- Student: \$100.00
- Vendors/Exhibitor: \$.... (Friday events only)

Late Registration after September 25th, 2024

- Industry and Government Professional: \$450.00
- Faculty/Academic: \$350.00
- Guest /Spouse: \$275.00
- Student: \$200.00
- Vendors/Exhibitor: \$...(Friday events only)

--- Field Conference Committee ---

- Henry Agbogun, FHSU – General Event Chair, hmagbogun@fhsu.edu
- Doug Davis President, Kansas Geological Society- Event Co-Chair
- Jonathan Sumrall, FHSU - Event Co-Chair/Field Trip Leader, jbsumrall@fhsu.edu
- Jonathan Schueth, University of Nebraska – Field Trip Leader
- Richard Lisichenko, FHSU – Chair, FHSU Department of Geosciences
- Patricia Duffey, FHSU – General Secretary
- Olumide Ajulo, FHSU Geosciences Graduate Student – Logistics
- Oluwaseun Omoyemi, FHSU Geosciences Graduate Student - Logistics

IT'S TEE OFF TIME!

Kansas Geological Society's Annual Golf Tournament

100th

Thursday, September 26th

at *Rolling Hills Country Club*

223 S. Westlink, Wichita, KS 67209

Check in: 7:30 A.M.

Coffee & Donuts: 7:30 A.M. - 8:30 A.M.

Tee Off Shot Gun Start: 8:30 A.M.

6 Member Teams, Best Ball Scramble,
Lunch provided

Entry Fee = **\$125.00** (payable to KGS)

Prizes awarded to 1st, 2nd, 3rd, 4th & 5th place teams in 4 flights
Additional prizes awarded for: Closest to the Pin and Longest Putt for various holes

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Donuts & Coffee	\$300	_____
"19" Hole Open Bar (Limit 1)	\$500	_____
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4 Players in Tournament	\$1,000	_____
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6 Players in Tournament	\$1,750	_____
Logo on Signage		
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REGISTRATION FORM

***ALL ENTRIES MUST BE RECEIVED BY WEDNESDAY,
SEPTEMBER 25TH, 2024***

Player 1 & team captain: _____

Phone: _____

Email: _____

Player 2: _____

Player 3: _____

Player 4: _____

Player 5: _____

Player 6: _____

Mulligans \$5.00 each, limit 2 per player. Can be added to registration. 😊

Total Enclosed for Golf & Mulligans: _____

Invoice Requested (check here):

All participants must adhere to the *Rolling Hills Country Club* dress code.

Collared shirts are required.

No denim or cut-off shorts are allowed on the course.

**Tournament Questions: David Barker (316) 259-4294 //
2barker@sbcglobal.net**

Send Registration & Payments to:

Kansas Geological Society

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Wichita, KS 67209

Memorial

Arden Ratzlaff

September 10, 1934 – July 21, 2024

Arden D. Ratzlaff, age 89, passed away on July 21, 2024. Arden grew up on a farm in Oklahoma, eventually relocating to Wichita, KS. Arden graduated from WSU with a degree in geology. While at WSU, he met and fell in love with Margaret Ann Hartman. Arden was a well respected oil and gas geologist for more than 60 years. He loved and was proud of his work. He was a long time member of the Kansas Geological Society and Library.

Arden was quite an athlete. Baseball was his first love, but he enjoyed watching all sports. WSU Shocker sports, KC Royals and the grandkids Burlington Wildcats have lost a huge fan. Arden loved to swim, bowl, and fish, especially for rainbow trout in Branson, MO.

He was preceded in death by Margaret Ann, his wife of 62 years, and grandson Jake Sagerty. He is survived by his sons, Monty of Wichita, Terry of Kansas City and Lanny (Sandy) of Burlington, KS; daughter Shelly Sagerty (Curtis) of Wichita; 7 grandchildren, 15 great-grandchildren; sister DeMar Regier; brother, Gordon (Francoise); several nieces and nephews.

Memorial to First United Methodist Church, c/o Arden Ratzlaff, 330 N. Broadway, Wichita, KS 67202

Memorial

Richard Stephen “Steve” Davis

May 1, 1957 – August 16, 2024

Steve Davis, often called “Junior” by those closest to him, passed away peacefully on August 16, 2024, at the age of 67. He was born and raised in Wichita, KS. Steve was a man whose warmth, wit and wisdom touched everyone he met. His infectious laughter and charm made him the kind of person who could brighten any room, leaving a lasting impression with his humor and genuine kindness.

Steve had a keen intellect that made him both a deep thinker and a respected geologist. His curiosity and ability to grasp complex ideas were evident in both his professional achievements and personal interactions. Despite his intellect, Steve was never without his quirks—he could be ornery, known for his playful mischief and a stubborn streak that only added to his endearing personality.

Steve’s academic journey began at the University of Kansas, later graduating from Wichita State University in geology. This led to a successful career in geology where he was admired for his expertise and camaraderie.

Steve was preceded in death by his parents, Richard S. Davis Sr. and Valerie Davis. He is survived by his sister Donna; his niece Lauren and children; his nephew Chase (Morgane) and children; cousins, Jan, Peggy, Dan and Stanley; and many close friends. Steve will always be remembered as a loving brother, uncle, cousin and friend who brought joy and laughter into the lives of all who knew him.

Steve’s life is a testament to the power of kindness, humor and the joy of living life on his terms. He will be missed dearly by his friends and family. May he rest in peace, knowing he made the world a brighter and more joyful place.

A memorial service will be held at 10:00 AM on Sunday, September 22, 2024 at Downing & Lahey Mortuary, 6555 E Central Ave., Wichita, KS.

A memorial has been established with the Kansas Geological Foundation, 1704 S. Baehr St., Wichita, KS 67209

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In Memoriam

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Dean Britting

Robert Llewellyn

Willis Nigh

Richard Cornett

Jim Reilly

Robert “Bob” Cowdery

Chuck Latham

I. Wayne Woolsey

2024

Paul Ramondetta

George Jones

Cecil O’Brate

Bob McCann

Arden Ratzlaff

Gary Griffith

Steve Davis



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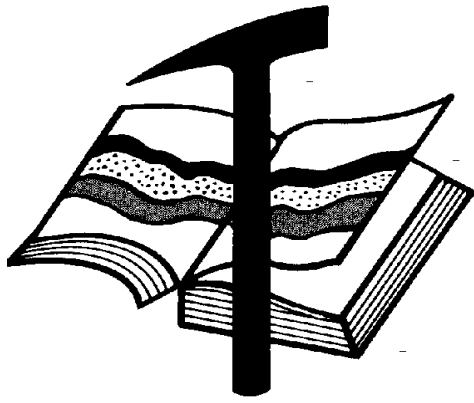
Contact Kent Scribner at 316-640-1154

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



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, 1704 S, Baehr Wichita, KS 67209 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

Kansas Geological Foundation News

Fall 2024 KGF Scholarship Recipients

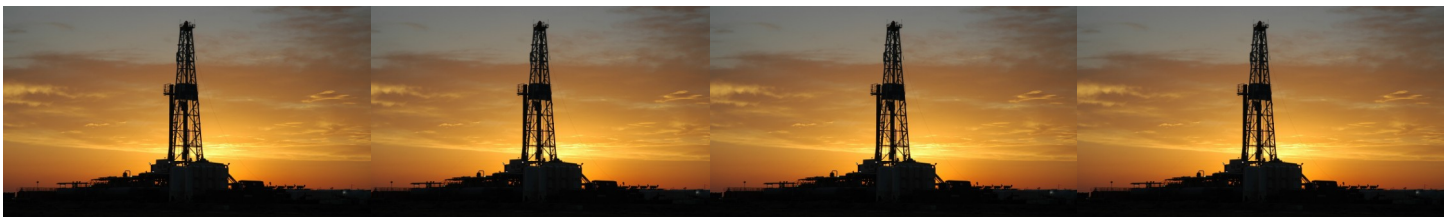
Name	University	Scholarship	Amount
Gyasi Kobina	Kansas State University	KGF Scholarship	\$1000.00
Deborah Agbamu	Kansas State University	KGF Scholarship	\$1000.00
Samantha Villasana	Kansas State University	KGF Scholarship	\$500.00
Makenna Roths	Wichita State University	KGF Scholarship	\$1000.00
Mitchell Baker	Wichita State University	KGF Scholarship	\$500.00

KGF Grants

Sarah Lamm, PhD candidate at KU

\$2500.00 for Rocks and Rockets Event in Colby

August 2024



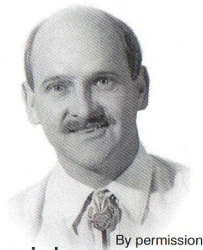
Kansas Geological Foundation News

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, 2024.

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

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.

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Robert Gebhart	01/90	1990
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Norman R. Stewart	07/93	1993
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Carl Todd	01/95	1995
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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
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Elmer "Lucky" Opfer	12/96	1996
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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
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Howard E. Schwerdtfeger	11/98	1999
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Warren E. Tomlinson	01/00	2000
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Eric H. Jager	03/00	2000
Kenneth W. Johnson	03/00	2000

Kansas Geological Foundation Memorials

KGS Member	Date Deceased	Memorial Established
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Gerald W. Zorger	01/02	2002
Don L. Calvin	03/02	2002
Claud Sheats	02/02	2002
Merle Britting	2002	2002
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Donald M. Brown	11/02	2003
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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
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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
Fredrick Stump	09/21	2021
Larry J. Richardson	10/21	2021
Robert Cowdery	12/23	2023

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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.

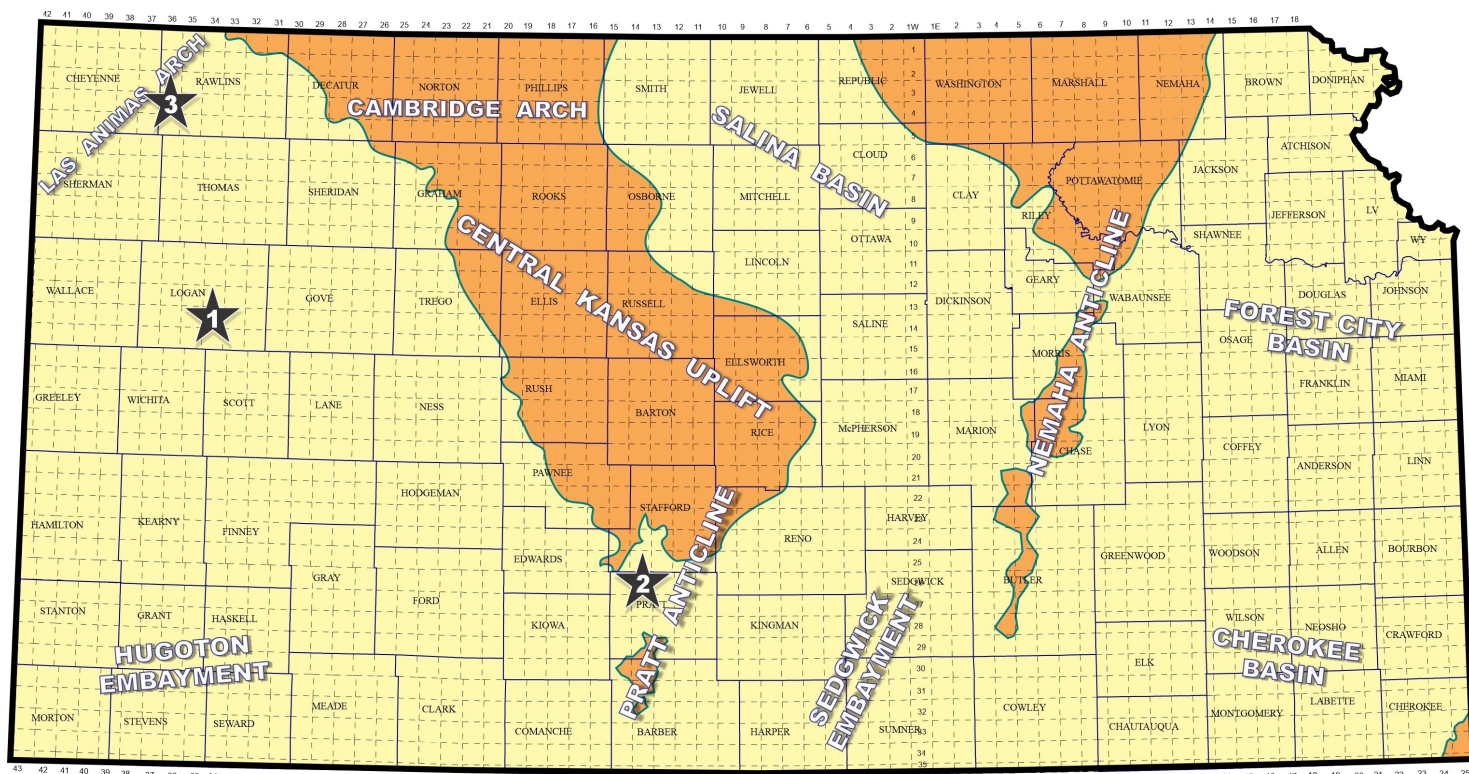
To be a Visiting Geoscientist bearing the AAPG flag, you are asked to have at least 5 years of experience and make at least one visit per year to a university. It can be a school with an AAPG Student Chapter, or a college/university without one. Your choice.

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

Exploration Highlights

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



Map courtesy of Marc Summervill

(1) Darrah Oil Company, LLC, of Wichita (KS), has discovered Marmaton oil reserves at the #1-12 Younkin wildcat well in approximately NE NW SW in section 12- T14s- R34W in Logan County. The new unnamed pool discovery was placed on pump on May 30, 2024, at site located about four miles south and six miles east of Russell Springs, Kansas. Murfin Drilling tools drilled the well to a total depth of 4,540 ft. Completion details remain confidential. The new pool has not been named. (Ref: API 15-109-21672)

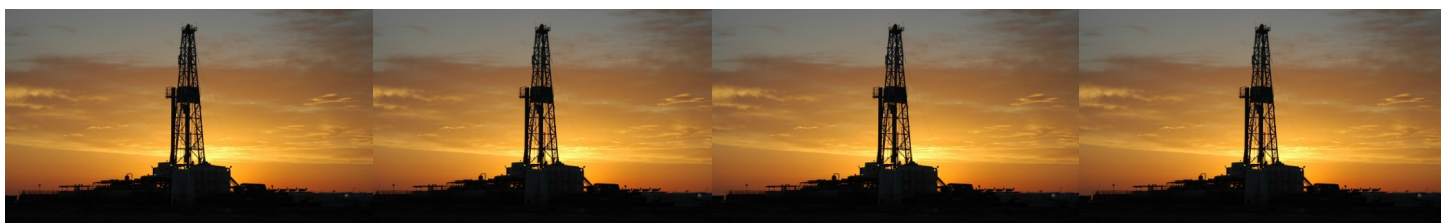
Darrah's new discovery lies over one mile to the north Marmaton pay in the "SHS" pool. Pioneer Oil Company, Vincennes (IN), completed the #12-13 Smoky Hill South for 73 BOPD, no water, on October 18, 2022. The well was drilled in approximately NE NW SW in section 13. Commingled production comes from the Marmaton (4,296 to 4,302 ft), Altamont (4,317 to 4,361 ft) and Fort Scott (4426 to 4437 ft) formations. The well has produced over 10,000 BO total to date. (Ref: API 15-109-21631)

(2) Independent oil producer Thomas Garner, Inc, of Saint John (KS), has found a new pay source within the "Livin Mound" pool in Pratt County. The #1 M & M Unit was drilled to a total depth of 4,500 ft at site in approximately SE NE NW in section 27- T26s- R14W, about

two miles south and one mile east of the town of Byers (KS). Sterling Drilling was the contractor. The well is producing an undisclosed amount of oil from the Arbuckle formation. (Ref: API 15-151-22590)

The “Livin Mound” pool was established in 1972 by Palomino Petroleum and Hellar Drilling, both from Wichita (KS). Their #1 Berg OWWO, NW/4 of section 27, was completed for 15 BOPD from the Lansing-Kansas City formation. In 1982, Pickrell Drilling Company, Wichita (KS), discovered Mississippian oil and gas reserves in the “Livin Mound” pool. The #1 Moore Trust A, SE/4 of section 27, was completed for 41 BOPD plus 64 MCFGPD. The “Livin Mound” pool produced 13,426 BO total during its active years.

(3) Carmen Schmitt, Inc, of Great Bend (KS), discovered Cherokee Limestone oil reserves that resulted in the establishment of the “Middle Beaver” oil field in Rawlins County. The #1-9 Hines Farms, spotted in the SW SE SE in section 9- T4s- R36W, was the discovery well. It was completed for 89 BOPD, no water, from perforations at 4,519 to 4,529 ft. Rotary total depth was obtained at 4,850 ft. Since the discovery, Schmitt has added three additional Cherokee development wells to the field. In addition, Schmitt discovered a new pay source from the Lansing-Kansas City formation at the #3-9 Hines Farms in the SW SE SE of section 9- T4s- R36W. The well was completed in August last year. Completion details are confidential. The “Middle Beaver” pool has produced nearly 59,000 BO from inception. The field area is situated about four miles south and one east of McDonald, Kansas. (Ref: API 15-153-21332)



September 2024

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

October 2024

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