

KANSAS GEOLOGICAL SOCIETY

BULLETIN

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IN THIS ISSUE

First Annual KGS Brewery Meet Pics	page 10
AAPG Mid-Continent Section Forth Annual Biennial Field Conference	page 12
Memorial Gary Stuart Sandlin	page 22
Memorial Gary Wilkins	page 23





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Table of Contents

Features

First Annual KGS Brewery Meet AAPG Mid-Continent Biennial Field Conference

Departments & Columns:

KGS Tech Talks	4
President's Letter	7
Advertiser's Directory	8
Professional Directory	17
Kansas Geological Foundation Cornerstone and News	20 & 21
Memorials: Gary Sandlin and Gary Wilkins	22 & 23
Exploration Highlights	25 & 26
Kansas Geological Foundation Memorials	27

ON THE COVER:

Bay of Fundy New Brunswick, Canada

CALL FOR PAPERS

The Kansas Geological Society Bulletin, which is published bimonthly both in hard-copy and 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 printed length of papers is 5 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 <u>manager@kgslibrary.com</u> 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 <u>http://www.kgslibrary.com</u>

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SOCIETY Technical Meetings

		KGS 2018 Technical Taiks
September	12	Robert Davis-Schlumberger Retired - "Identification and Characterizations of Faults & Folds Using Borehole Electrical Images"
	21	"Rock Stars - Pioneering Women in Petroleum Geology" Wichita State University Geology Department Room 101
	26	Frank Mize - "The Arbuckle Story - Sooner Waters Return"
October	5	Dr Karin Goldberg - KSU - TBA
	12-14	AAPG Mid-Continent Field Conference - University of Nebraska Lincoln
	17	Jacob McCallie Diamond Testing "Digital Testing"
		Other activities

KGS Fishing Tournament September 14, 2018 Marion County Lake

KGS Shooting Tourney - October 12 - Lynbrooke Sporting Clays

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 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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Ernie Morrison **Douglas Davis** 2018 2018

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CONGRATULATIONS!! 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

Society and Library Members,

This letter finds us almost in the fourth quarter of 2018. Seems impossible! Summer has flown by, and here we are with fall just around the corner. Oil is hovering just below the \$70/barrel mark, which is significantly better than one year ago at this time. Not only do the charts show the increase, but if you are scheduling wells to be drilled, one better get the rigs, loggers and drill stem testers lined up well in advance.

Doug Davis has agreed to be the Continuing Education and Technical Program Chairman. He has an excellent schedule of technical talks already lined up, so please check the KGS Bulletin and we will continue to email reminders. He is also involved in the upcoming Mid-Continent AAPG Field Conference being held in Lincoln, Nebraska, October 12-14th.

Both the KGS Golf Tournament and the 1st Annual KGS Brewery



Meet were successful with members and guests attending each. I believe all had a great time at both events. I would like to thank Dave Barker again for chairing the Golf Tournament. This takes so much time in organizing and running the tournament, and he did a great job. I would also like to thank Brent Reinhardt in helping organize the Brewery Meet. Brent and I had fun planning this new event. We had around 75 people attend so we believe it was a success. We heard the food was good, the beer better, and the company superb. We will definitely have a 2nd Brewery Meet next summer. I would also like to thank all of the sponsors for the generous donations of both events. Your sponsorship helps our society do the fun stuff! And lastly, I would like to thank the employees of the KGS library. There is so much 'behind the scene work' that goes into the planning and carrying out of the social events that most of us do not see. The KGS library staff gets it done and we do all appreciate it, so thank you very much from the membership. Please plan on attending the 34th Annual Fishing Tournament on September 14th, and the 25th Annual Shooting Tournament on October 12th. Once again, your participation is greatly appreciated.

Even with the price of oil in an upswing over the past year, the KGS Library as a whole is losing money. Membership income has decreased in both the paper library and the digital library. We have an aging membership and the younger and new members have not replaced the memberships we have lost over the past several years. The sales of logs and data cannot sustain the paper library financially without memberships. This is a problem that is very difficult to solve, not only for the current Board, but will be for future KGS Boards – **and members** - for the next years to come. We have organized a Future Plans Committee to help with our aging membership, help deal with the vast amounts of paper data being stored in the library, help understand the always new and changing technology within our industry and help lead our members into the future. The next few years will encounter changes within the KGS on many levels, no doubt. I have been approached by several members with various ideas how to approach the problems we are faced with, and all are very welcome. I urge all members to please use the library for all of your geological needs and please keep up your memberships if possible.

To close, I have to say how sorry I was to learn of Ernie Morrison's passing. He will be greatly missed and leave a huge void in our Society. Thank you for everything you did, Ernie.

Thank you, KGS Society, for all of your support.

Beth A. Isern 2018 KGS President

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	page
Allied Cementing Company, Inc	24
Dawson Geophysical Company	2
Duke Drilling	24
Kansas Geological Foundation	19
Kansas State University	8
Lockhart Geophysical	24
Murfin Drilling Company, Inc	24
PARAGON Geophysical Services, Inc	2
Professional Directory	17
Trilobite Testing	6
Walters Digital Library	15/26

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Missing reference books and periodicals from the KGS Resource Room

I'm channeling the spirit of my dear departed friend Bob Slamal. Bob was determined to organize all of the text books, survey bulletins and various publications that are in the resource room at the KGS Library. He spent countless hours on his own time to accomplish this task. Many years back, before his untimely death, he instituted a checkout policy for these materials. Cards were filled out with the borrowers name and publication, then placed in an envelope on the shelf where the publication was removed.

Recently I noticed many of these envelopes on the shelves and began to peruse them. Many items have been gone for years. I'm asking that each member check your reference materials for these missing items. I'm sure they will be marked as KGS property.

Please help me in this endeavor. This is my FOURTH appeal to the membership. Thus far there has been no response.

Wes Hansen Editor





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First Annual KGS Brewery Meet at Aero Plains Brewery



Angela, Tammy and Emily holding the sponsor list for the Brewery Meet

A big thanks to the sponsors And to all who attended making this event a success.

Thanks to Sweet Willy's BBQ for the food and the staff of Aero Plains for the great beer.









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Lincoln 🖌 🗡

The Fourth Biennial Field Conference of the AAPG Mid-Continent Section

"New insights into Carboniferous Cyclothems"

Cornhusker Marriott Hotel, Lincoln, NE October 12-14th, 2018

Come to Nebraska to catch up on the latest research into Carboniferous cyclothems in the Midcontinent and their petroleum potential. If you care about the Miss. Lime, Oswego, STACK, SCOOP, or other Carboniferous plays, this is for you!

REGISTER TODAY! http://aapgmcs.org/field-conferences/2018

For more information: Christopher R. Fielding cfielding2@unl.edu, 402-472-9801 R.M. (Matt) Joeckel rjoeckel3@unl.edu, 402-472-7520 Hosted by the Nebraska Geological Society







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Schedule of Events

<u>Friday, October 12</u>		
10:00am-1:00pm	Exhibitor and poster setup	
12:00pm-6:00pm	Registration	
1:00pm-7:00pm	Exhibit hall open	
1:00pm-5:00pm	Symposium - Technical and poster sessions	
5:00pm-7:00pm	Welcome Reception	
<u>Saturday, October 13</u>		
6:00am-7:00am	Breakfast	
7:00am-5:00pm	Field Trip (lunch provided)	

The field trip, led by Drs. Christopher Fielding and R.M. "Matt" Joeckel, will see participants traveling through southeastern Nebraska to examine a series of Pennsylvanian exposures, comprising thick fluvial and estuarine sandstones overlain by thin-bedded sandstones-mudrocks that are incised into the limestone-mudrock cycles typical of the latest Pennsylvanian (Virgilian) succession of SE Nebraska. Participants will gain an appreciation for the diagnosis of sedimentary environments in these strata, their stacking patterns, and their capacity to act as reservoirs of natural fluids. The ndian Cave Sandstone is a producing oil reservoir horizon in southern Kansas.

6:00pm-10:00pm Dinner (Keynote) and Cocktail Reception

Sunday, October 14

7:00am-8:00am	Breakfast
7:00am-12:00pm	Exhibit hall open
8:00am-12:00pm	Core workshop and poster session
12:00pm C	onference ends

Proposals for oral or poster presentations, drillcore displays and commercial exhibitors are welcome!

Guests are Welcome!

Guest registration will include the welcome reception on Friday evening and Saturday night dinner featuring a guest speaker.

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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 Section Meeting Updates

Gulf Coast - Sept. 30-Oct. 2 Shreveport, LA

Eastern - Oct. 7-11 Pittsburg, PA

Mid-Continent - Oct. 12-14 Lincoln, NE "New Insights Into Carboniferous Cyclothems"



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Ammunition and lunch will be provided.

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RULES

1. Eye and ear protection required.

2. Only shells provided will be permitted (specify gauge on entry form).

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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See the web for titles & descriptions www.kgfoundation.org

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> The WSU Geology Club is participating And YOU can help them!

When ordering pizza from Papa John's, Use this code: **WSU004** (those are zero's, not letter O)

With this code, the customer will receive 40% off their entire online order and WSU's AAPG Student Chapter will receive 10% of the money spent on the order.

Eating pizza tonight? Let's help WSU Geology Club!

Monies raised will be used towards gas money to travel to local schools when they promote the geosciences to grade schools, registration costs for workshops, seminars and AAPG Student Expos, and social and academic events like an upcoming "Lunch and Learn" series next fall.

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- support field trips and seminars
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The Kansas Geological Foundation provides the following services as a part of the organization's commitment to educate the public regarding earth science.

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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 Janice Bright 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:

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\$ 500 to \$ 999
\$1000 to \$5000
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Kansas Geological Foundation Cornerstone

Kansas Geological Foundation News

Fall 2018 Scholarship Recipients

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Keelan Umbarger	KU	\$500.00
Isaac Allred	KU	\$500.00
Caroline Nazworth	KU	\$500.00
Deserae Jennings	KU	\$500.00
William Swanson	WSU	\$500.00
Lauren Haga	KU	\$250.00
Julie Sophis	KU	\$250.00

Grant Request Recipients

Dr. Hendratta Ali	FHSU	\$1000.00
Nina Ataee	KSU	\$500.00
KayLeigh Rogers	KSU	\$500.00
Luke Rijfkogel	KSU	\$500.00

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**

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Ernie Morrison Marc Summervill (Grants) Brian Fisher (Membership) Ken Leblanc Ken Wallace

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 Spring semester will be due by December 1, 2018.

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.

Currently, the Foundation has four students working on well log integration: Kyle Lawson, Helen Cruz, Shuyao Li (a.k.a. Emily) and David Bruce. They work between ten and thirty hours per week. More than a dozen other part-time integrators have worked on the project since 2010.

Is it Time for the KGS Bulletin to go Only Digital?

The readers of the KGS Bulletin have no doubt noticed the gradual decrease in advertising in our society bulletin. We have lost two 1/2 page color ads in the last couple of months. The costs for printing and mailing the bulletin far exceed the ad revenue. Currently, one can view the bulletin online from the Kansas Geological Society website and print from one's own computer.

One concern expressed to me is that some members may not be able to receive a pdf of the bulletin in their email program due to the file size. It has also been suggested to me that a link to the current issue could be emailed to the membership that would take them to the currents issue.

Express your concerns to me at whansen4651@sbcglobal.net

Thanks, Wesley D. Hansen, editor

Memorial

Gary Stuart Sandlin By Kathie Sandlin

Gary Stuart Sandlin was born June 10, 1933, and passed away on January 5, 2017, at St. Anthony's North Hospital, Westminster, Colorado. He is survived by his wife Kathie Sandlin, daughter, Laura Rodriguez Sandlin and her husband, Paul Rodriguez, stepson, Billy Kimbrough, sister, Karen Summers, brother, Steve Sandlin, and his wife Cathy, many nieces and nephews, previous wife, Betty Keiswetter Higbie, and her husband, Lee. He was preceded in death by his parents, Edwin and Mary (Dorman) Sandlin, son Jeff Sandlin, brother, Arlen Sandlin, and brother, Curtis Sandlin.

Gary worked as a geologist in the oil industry for more than 50 years. Raised on a farm in Graham County, Kansas, he began working in the oil fields of western Kansas after graduation from high school in 1951 and continued working on drilling rigs during



summers through 1955, when he earned his bachelor's degree in geology from K-State

Upon graduating from K-State, he worked for Dowell, Inc. as a junior service engineer until 1956, when he returned to K-State as a graduate student. After earning his master's degree in geology in 1957, Sandlin worked as a geologist with Pubco Petroleum in Casper, Wyoming. He then transferred to Albuquerque, N.M. in 1959 to work as a district geologist in the mid-continent and Denver Basin regions.

In 1961 he was transferred to Denver, Colorado, where he worked in the same capacity until 1965, when he began his career as an independent geologist. In 1977, Sandlin incorporated Sandlin Oil Corporation, which his wife and daughter still own and operate.

Gary was a member of the Kansas Geological Society, American Association of Petroleum Geologists, Rocky Mountain Association of Petroleum Geologists, and a member of the Kansas State Geology Advisory Board at Kansas State University. Gary was very supportive of the geology department at K-State and created the Gary and Kathie Sandlin Geology Scholarship to help those interested in geology. He also contributed to the proposed K-State Geosciences Building. The Alumni Fellows Program sponsored by the President's office, the Dean's Council and the K-State Alumni Association honored Gary as a Fellow in April, 2014. Gary enjoyed traveling to he K-State football bowl games following his "Wildcats" and enjoyed talking geology and football with his many friends and their wives.

A memorial has been established with the Kansas Geological Foundation.

Memorial

MEMORIES OF GARY WILKINS From Gary Penley, Petroleum Geologist

Gary C. Wilkins, geologist, mentor, and forever friend, passed from this life on January 24, 2017. In a successful career of fifty-plus years, Gary held various positions—both technical and managerial—in Magnolia Petroleum, Mobil, Lear Petroleum, Mesa Petroleum, Calvin Exploration, and Hawkeye Exploration.

Gary's work took him to residences in Mt. Vernon, Illinois; Wichita, Kansas; Oklahoma City, Oklahoma; and Denver, Colorado. His exploration experience extended through an impressive number of geologic basins: the Anadarko Basin, Arkoma Basin, Texas Panhandle, Illinois Basin, Michigan Basin, Great Valley of California, Santa Barbara Channel, Southern California offshore, the North Slope of Alaska, and all of Kansas.

In a manner reminiscent of his entire life, Gary planned his own funeral—chose the flowers, the music, picked out his casket, and wrote his own obituary.

Surprisingly, Gary admitted an inability to write this "Blurb"—his word, not mine—to be published after his death. He honored me by asking me to write it. I do hope this blurb proves satisfactory, lest my outspoken friend give me a final chewing out from his current residence—a place largely unknown to us except for the undeniable fact that Gary is surely influential up there—at least second in command.

Personality wise, Gary Wilkins was a walking contradiction—a living dichotomy.

The man was velvet and steel. The steel being the side he generally chose to present to the world; the velvet being the one revealed only to those of us who knew him well.

The persona that Gary presented—tough, fearless—was not an empty facade. Unlike many who act like tough guys, Gary really was a tough guy.

Gary had a unique professional philosophy—one that he expressed often. "If you keep your eyes and ears open and pay attention for a few years, you will no longer be a geologist, a geophysicist, or an engineer; you'll be an oil man."

Godspeed, Oil Man. We miss you.



Exploration Highlights

By John H. Morrison, III Independent Oil & Gas



Map courtesy of Marc Summervill

Editors Note:

Dear readers,

John Morrison informed me that he was undergoing a back surgery that would entail no activity for several weeks with an additional recovery of several weeks to a few months. There will be no *Exploration Highlights* for the foreseeable future. His many friends may wish to convey their thoughts for a rapid and successful recovery

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Kansas Geological Foundation Memorials

KGS Member	Date Deceased	Memorial Est.	KGS Member	Date Deceased	Memorial Est.
Dan Bowles	09/89	1990	Claud Sheats	02/02	2002
John Brewer	10/89	1990	Merle Britting	2002	2002
George Bruce	08/89	1990	Harold Trapp	11/02	2002
Robert Gebhart	01/90	1990	Donald M. Brown	11/02	2003
Ray Anderson, Jr.	11/90	1990	Elwyn Nagel	03/03	2003
Harold McNeil	03/91	1991	Robert Noll	09/03	2003
Millard W. Smith	08/91	1991	Benny Singleton	09/03	2003
Clinton Engstrand	09/91	1991	Jay Dirks	2003	2003
M.F. "Ted" Bear	10/91	1991	J. Mark Richardson	02/04	2004
James & Kathryn Gould	11/91	1991	John "Jack" Barwick	02/01	2004
E. Gail Carpenter	06/91	1993	Richard Roby	03/04	2004
Benton Brooks	09/92 01/93	1992 1993	Ruth Bell Steinberg	2004 03/04	2004 2004
Robert C. Armstrong Nancy Lorenz	02/93	1993	Gordon Keen Llovd Tarrant	05/04	2004 2004
Norman R. Stewart	07/93	1993	Robert J. "Rob" Dietterich	08/96	2004 2004
Robert W. Watchous	12/93	1993	Mervyn Mace	12/04	2004 2004
J. George Klein	07/94	1993	Donald Hoy Smith	04/05	2004 2005
Harold C.J. Terhune	01/95	1995	Richard M. Foley	06/05	2005
Carl Todd	01/95	1995	Wayne Brinegar	06/05	2005
Don R. Pate	03/95	1995	Charles B. Moore	09/96	2005
R. James Gear	05/95	1995	Jack Heathman	05/06	2005
Vernon Hess	06/95	1995	Charles Kaiser	09/06	2006
E. K. Edmiston	06/95	1995	Rod Sweetman	08/06	2006
Jack Rine	07/95	1995	Karl Becker	10/06	2006
Lee Cornell	08/95	1995	Frank Hamlin	10/06	2006
John Graves	10/95	1995	Marvin Douglas	12/06	2006
Wilson Rains	10/95	1995	Robert W. Hammond	04/07	2007
Heber Beardmore, Jr.	09/96	1996	Eldon Frazey	04/07	2007
Elmer "Lucky" Opfer	12/96	1996	Pete Amstutz	05/07	2007
Raymond M. Goodin	01/97	1997	Charles Spradlin	05/07	2007
Donald F. Moore	10/92	1997	Donald R. "Bob" Douglass	09/07	2007
Gerald J. Kathol	03/97	1997	Vincent Hiebsch	11/07	2007
James D. Davies	08/88	1997	Glen C. Thrasher	03/08	2008
R. Kenneth Smith	04/97	1997	Peg Walters	06/08	2008
Robert L. Dilts	05/97	1997	Theodore "Ted" Sandberg	07/08	2008
Delmer L. Powers	06/72	1997	James Ralstin	11/08	2008
Gene Falkowski	11/97	1997	Earl Brandt	04/09	2009
Arthur (Bill) Jacques	01/98	1998	Walter DeLozier	05/09	2009
Bus Woods	01/98	1998	Don D. Strong	01/10	2010
Frank M. Brooks	03/98	1998	John Stone	02/10	2010
Robert F. Walters	04/98	1998	Craig Caulk	03/10	2010
Stephen Powell	04/98	1998	Joseph E. Moreland, Jr.	03/10	2010
Deane Jirrels	05/98	1998	Gene Garmon	03/10	2010
William G. Iversen	07/98	1998	James F. Dilts	05/10	2010
Ann E. Watchous	08/98	1998	Jerry Pike	05/10	2010
W.R. "Bill" Murfin	09/98	1998 1998	Donald Hollar	06/10	2010
Donald L. Hellar	11/98 01/99		Delbert Costa John Tanner	08/10	2010
Joseph E. Rakaskas Charles W. Steincamp	02/99	1999 1999		08/10 09/10	2010 2010
Robert and Betty Glover	10/96	1999	William (Bill) Owen Harold (Hal) Brown	10/10	2010
Howard E. Schwerdtfeger	11/98	1998	Edmund G. Lorenz	11/10	2010
W. W. "Brick" Wakefield	03/99	1999	Thomas E. Black	05/11	2010
V. Richard Hoover	01/00	2000	Wayne E. Walcher	07/11	2011
Warren E. Tomlinson	01/00	2000	Henry F. Filson	07/11	2011
James A. Morris	01/00	2000	Thomas Ray	07/11	2011
Eric H. Jager	03/00	2000	Edgar E. Smith	09/11	2012
Kenneth W. Johnson	03/00	2000	Marilyn Messinger	06/13	2013
Dean C. Schaake	03/00	2000	Micheal Mitchell	09/13	2013
Fred S. Lillibridge	05/00	2000	Orvie Howell	11/13	2013
Jerry A. Langrehr	07/00	2000	James Thompson	11/13	2013
Clark A. Roach	07/00	2000	Dick Rowland	09/13	2014
Floyd W. "Bud" Mallonee	10/00	2000	Robbie Thompson	12/13	2014
Ralph W. Ruuwe	09/00	2000	Kris Kennedy	04/14	2015
Robert L. Slamal	02/01	2001	Annette Hedke	02/15	2015
Jerold E. Jesperson	06/01	2001	James Devlin	04/15	2015
William A. Sladek	06/01	2001	Robert Gensch	09/15	2015
Harlan B. Dixon	06/01	2001	Jerald Rains	05/16	2016
Edward B. Donnelly	08/01	2001	Max Houston	05/16	2016
Richard P. Nixon	02/02	2002	Robert "Gus" Messinger	01/17	2017
Robert W. Frensley	12/01	2002	Jimmy Wayne Gowens	04/17	2017
Gerald W. Zorger	01/02	2002	Walter H. Martz Jr.	01/18	2018
Don L. Calvin	03/02	2002			

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23/30	24	25	26	27	28	29
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