IN THIS ISSUE

Memorials:

James F. Dilts
Walter “Flip” Phillips
Gerald Pike
Burt Schmidt

GEO-SCENES
Accreted (Exotic) Terranes
Page 20

WSU Field Camp Photos
Page 22
Missing Well Data?

Let TGS complete the picture.
TGS adds hundreds of complete LAS everyday to the world’s largest LAS library, with well logs in 29 countries.

And since you asked for it, we now have nationwide US Production Data.

Our well data is online, available immediately, with a team of dedicated customer support specialists there for you.

If your own proprietary well files are piling up, our new team of well data solutions experts can build a custom solution suited to your needs.

Learn more at www.tgsnopec.com/welldata
888-LOG-LINE | WellData@tgsnopec.com
Table of Contents

Features:

Memorials ................................................................. 14
Geo-Scenes ............................................................... 20
WSU Field Camp Photos ............................................. 22

Departments & Columns:

KGS Tech Talks .......................................................... 4
President’s Letter ......................................................... 7
Advertiser’s Directory ............................................... 8
From the Manager ....................................................... 9
KGS Board Minutes ..................................................... 17
Professional Directory ............................................... 23 & 24
Exploration Highlights ............................................... 26
Kansas Geological Foundation ................................. 28
KGF Memorials .......................................................... 30

ON THE COVER:

Many of you may recognize this syncline from Lime Creek Colorado. This photo was taken by Kyle Day during WSU Field Camp this June. More photos of this year’s field camp are on page 22.

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 Technical Editor Dr. Sal Mazzullo at salvatore.mazzullo@wichita.edu, whose mailing address is Department of Geology, Wichita State University, Wichita, Kansas 67260. 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
There are no technical meetings scheduled for the summer

We will resume meetings on September 7th

Sept. 7th—Sal Mazzullo & Brian Wilhite, “Mississippian Outcrop Lithostratigraphy & Depositional Architecture as Models for Subsurface Petroleum Exploration”

Sept. 21st—Lynn Watney & Saibal Bhattacharya “Collaborative Efforts in Geologic, Geophysical, and Engineering Modeling to Evaluate Carbon Sequestration Potential in Kansas”

Sept. 24, 25, 26—KGS Field Trip (see inserted flyer for details)

Sept. 28th—TBA

Location for Technical Meetings

All KGS technical presentations are held at 12:30 p.m. at the Wichita Bar Association, located at 225 N. Market, ground floor conference room, unless otherwise noted.

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.
BOARD OF DIRECTORS

PRESIDENT
Rick Saenger

PRESIDENT-ELECT
Doug V. Davis

SECRETARY
Marjorie Noel

TREASURER
David Clothier

DIRECTORS
Lynn Watney
Robert O’Dell
Ken Dean

ADVISORS
Jon Callen
Ernie Morrison

COMMITTEE CHAIRMEN

Advertising
Kent Scribner

Advisory
Jon Callen

Annual Banquet
Ernie Morrison

Budget Committee
Doug Davis

Bulletin
Sal Mazzullo

Continuing Education
Robert Cowdery

Distinguished Awards
Lynn Watney

Directory
Larry Richardson

Environmental
Kent Matson

Field Trip
Larry Skelton

Fishing Tournament
Randy Teter

Future Plans
Tim Pierce

Golf
Paul Gunzelman

Historian
David Barker

Investment
Larry Skelton

Library
David Clothier

Membership
Roger Martin

Nomenclature
Ted Jochems

Picnic
Larry Friend

Public Relations
Robert Cowdery

Shooting Tournament
Larry Richardson

Technical Program
Robert Cowdery

Ticket Sales
Bill Shepherd

A.A.P.G. DELEGATES

Ernie Morrison 2010
Robert Cowdery 2012
Doug Davis 2012

K.G.S. LIBRARY

PHONE 316-265-8676   FAX 316-265-1013
email: frontdesk@kgslibrary.com or
Web: www.kgslibrary.com

LIBRARY MANAGER
Rebecca Radford 265-8676
manager@kgslibrary.com

The KGS Bulletin is published bi-monthly by the Kansas Geological Society, with offices at 212 North Market, Wichita, Kansas 67202 Copyright 2006, The Kansas Geological Society. The purpose of the Bulletin is to keep members informed of the activities of the Society and to encourage the exchange and dissemination of technical information related to the Geological profession. Subscription to the Bulletin is by membership in the Kansas Geological Society. Limited permission is hereby given by the KGS to photocopy any material appearing in the KGS BULLETIN for the non-commercial purpose of scientific or educational advancement. The KGS, a scientific society, neither adopts nor supports positions of advocacy, we provide this and other forums for the presentation of diverse opinions and positions. Opinions presented in these publications do not reflect official positions of the Society.
**CAN YOU NAME THE CRITTER?**

Sponsored by Trilobite Testing, Inc.

Is your paleo up to date?

If you know the name of the trilobite, submit your guess via e-mail to manager@kgslibrary.com

Remember that Trilobite Testing is sponsoring your efforts, so be sure to thank Paul Simpson the next time you see him.

Bulletin committee members and PhD’s in Paleontology are prohibited from entering.
Dear Members;

Welcome to the premature Dog Days of Summer! After the unusual Monsoons of May and early June, our weather pattern has definitely turned. The Dog Days of Summer usually refers to the hot, sultry of mid July and August, but thanks to global warming and the unrestrained use of fossil fuels, we are having it early this year. But we won’t pursue that discussion at this time.

Last issue we announced the all member survey that we initiated to help evaluate the direction of the KGS for the future. I am especially concerned about our dwindling membership and the economic viability of the library over the next decade. We received a good response in the first 4 to 6 weeks, but the rate that we are now receiving completed surveys has slowed to a trickle. We have begun collating the data and have some preliminary results and observations. Of 692 members, we have received only 89 responses or about 13% of the membership. While I do not believe that 13% is an accurate representation of our total membership, I do believe that it provides some meaningful trend information. The age histogram below shows the age distribution of the respondents.

Ninety-one percent are above the age of 50, and over 1/5 are 75 years or older. A third of the 50-55 age group indicated that they plan to retire within the next 10 to 14 years. Considering the fact that 11 of our members have passed away this year, and our aging membership, our Society will be markedly affected as indicated by the statistics.

One of the interesting statistics that reflected the level of satisfaction towards our profession is in the response to the number of years that the members planned to work. Forty percent of the answers given are along the lines of: “Until they close the lid”, “until they carry me out feet first”, or “when I keel over”. Of course, I should mention that 11 of the members with that mindset are over 75 years old. I firmly believe that this is a response to the love of our chosen profession and the desire to continue working as long as we receive enjoyment from the work. More information will be forthcoming as Tim Pierce, Paul Gunzelman and I continue to review the survey data. The
GRADUATE EDUCATION

for active professionals

Through:             Leading to:
Workshops           Academic credits
Field Trips          Certificates (pending)
Distance Education   M.S. degree

With specializations in:
Petroleum Geology
Groundwater
Exploration Geophysics
Environmental Geochemistry

Information:
KSU Continuing Education: www.dce.ksu.edu
KSU Geology Department: www.ksu.edu/geology
KSU Graduate School: www.ksu.edu/grad
or e-mail George Clark, interim dept. head: <gro@ksu.edu>

NEW CD’s—DVD’s AVAILABLE
Alaska Oil and Gas Opportunities April 2010  - State of Alaska Dept of Natural Resources
Dispelling the Alaska Fear Factor  - Petroleum News
Oil and Gas Basin Resource Series North Slope of Alaska Updated April 2008  - State of Alaska Dept. of Natural Resources
The National Coal Resource Assessment  - USGS
Overview
Fischer Assays of Oil Shale Drill Cores and Cuttings from the Greater Green River Basin, Southwestern Wyoming  - USGS
Fischer Assays of Oil Shale Drill Cores and Rotary Cuttings from the Piceance Basin, Colorado – 2nd Update  - USGS
Preliminary Geologic Map of the Cook Inlet Region, Alaska - USGS
Total Petroleum Systems and Geologic Assessment of Oil and Gas Resources In the Powder River Basin Province, Wyoming and Montana - USGS
Reservoir Characterization Studies  - Core Lab
2D and 3D Proprietary Coverage  - PacSeis Inc.
Our Reservoir Integrated Suite  - BeicipFranlab
Coring Handbook  - Diamond Oil Well Drilling Company
Reservoir Solutions 2010  - Ryder Scott Company

ADVERTISER’S DIRECTORY

Allied Cementing Company, Inc  22
Duke Drilling  22
GeoCare Services AAPG  13
Kansas Geological Foundation  32
Kansas State University  21
Lockhart Geophysical  22
LogSleuth-MJ Systems  33
MBC Well logging  22
Murfin Drilling Company, Inc  22
Oneota Resources  11
PARAGON Geophysical Services, Inc  13
Professional Directory  23
Sunrise Oilfield Supply  22
Weatherford  35
Well Enhancement Services, LLC  12

ADVERTISER’S RATES: 2010

<table>
<thead>
<tr>
<th></th>
<th>B&amp;W</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Page</td>
<td>$2,000</td>
<td>$2,500</td>
</tr>
<tr>
<td>6 issues</td>
<td>$1,080</td>
<td>$1,325</td>
</tr>
<tr>
<td>3 issues</td>
<td>$480</td>
<td>$525</td>
</tr>
<tr>
<td>1 issue</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>B&amp;W</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 Page</td>
<td>$1,000</td>
<td>$1,500</td>
</tr>
<tr>
<td>6 issues</td>
<td>$540</td>
<td>$825</td>
</tr>
<tr>
<td>3 issues</td>
<td>$225</td>
<td>$350</td>
</tr>
<tr>
<td>1 issue</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>B&amp;W</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 Page</td>
<td>$600</td>
<td>$900</td>
</tr>
<tr>
<td>6 issues</td>
<td>$325</td>
<td>$525</td>
</tr>
<tr>
<td>3 issues</td>
<td>$150</td>
<td>$250</td>
</tr>
<tr>
<td>1 issue</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>B&amp;W</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8 Page</td>
<td>$300</td>
<td>$500</td>
</tr>
<tr>
<td>6 issues</td>
<td>$175</td>
<td>$325</td>
</tr>
<tr>
<td>3 issues</td>
<td>$75</td>
<td>$185</td>
</tr>
<tr>
<td>1 issue</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>B&amp;W</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Ad (Business Card)</td>
<td>$90</td>
<td>$180</td>
</tr>
</tbody>
</table>

For one-time ads, call Rebecca at 316-265-8676

www.kgslibrary.com
Dear Members,

It seems everyone is staying busy and you are keeping us busy here at the library which is a very good thing.

We had a record setting attendance at our annual KGS Golf Tournament this year. It was a perfect day, a little on the warm side but everyone seemed to have a good time. Thank you to Dave Barker and his committee, Jerry Mason and Chuck Latham—great job guys!

Our next event will be the KGS Picnic at All Star Sports West. I hope you can plan on attending and enjoying the evening with colleagues and friends. Bring your children and/or, as in my case, grandchildren, and enjoy all of the fun activities. The picnic will be on Friday, August 13th.

Also that next week is KIOGA’s annual meeting here in Wichita at the Airport Hilton. Hope to see some of you ‘out- of - towners’ at that as well.

The Kansas Geological Foundation has started ramping up on the “Accelerated Integration Project” and they are making great headway in the basement. I will have some photos of the progress posted in this bulletin so you can see what’s going on down there. We are still trying to raise funds to keep some students employed on that project so please keep the Foundation in mind if you can give towards the project.

Another note of interest, Board Secretary Marjorie Crane Noel gave birth to a healthy baby girl on May 24th, Jillian Imogene Noel. She’s a cutie!

Respectfully submitted,

Rebecca Radford
Manager
low response of the “under 40” members to the survey compels me to admonish this group with the following: In 10-15 years, the Kansas Geological Society and Library will be in your hands if not sooner. Please get involved in the Society Organization to ensure its perpetuity.

Last Friday the annual KGS Golf Tournament was held at Hidden Lakes. Please thank Dave Barker, Jerry Mason, and Chuck Latham for their hard work in organizing this event. Of course we could not play golf on a hot summer day without the liquid refreshment that was delivered by Rebecca, Rhonda, Tammy and Janice. Thank you ladies and Doug Davis for your diligent quality control of the beer, hamburgers, and brats!

Do not forget to mark the KGS Picnic on your calendar. It will be held again in the cool evening of Friday, August 13th, at Allstar Sports on west 21st Street. Don’t miss out on this fun and well attended annual event. Marj Noel is the Chairperson, so she deserves a big “Thank you”! If you would like to volunteer to help her out, please contact her at 650-3058. And when you talk to her about volunteering, congratulate her on her new baby and future lady geologist, Jillian!

Until next month, keep cool and best regards;

Rick Saenger

---

Recognition of KGS Members

Sal Mazzullo, Brian Wilhite and Wayne Woolsey have received the AAPG Presidential Award for their paper, published in the December 2009 issue of the AAPG Bulletin, entitled “Petroleum Reservoirs within a Spiculite-Dominated Depositional Sequence: Cowley Formation (Mississippian: Lower Carboniferous), South-Central Kansas”
Below is a screen shot of the KGS website where you now access the Robert F. Walters Digital Library

www.kgslibrary.com
WOULD YOU LIKE TO INCREASE YOUR PRODUCTION AT A FRACTION OF THE COST OF HORIZONTAL DRILLING?

Well Enhancement Services, LLC is jetting laterals utilizing new technology and coiled tubing. We now have the ability to place hundreds of gallons of acid hundreds of feet away from the well bore. This allows us to not only enhance existing production but to produce reserves previously unreachable. It has established itself by repeatedly increasing production in both new and existing wells. Contact us for more information, questions or to schedule your next well with WES.

“Tap into success…..with WES”

Please Contact Us:

Phone: (785) 625-5155
Fax: (785) 625-4151
Field: (785) 259-4638
wesofhays@hotmail.com
Box 87, Schoenchen, KS 67667

Robert F. Walters Digital Library
View Millions of Documents!

NEW SOFTWARE HAS ARRIVED!!

We have a new address

www.kgslibrary.com

Membership Details

If you are a member in good standing of the Kansas Geological Society Library, you can purchase a yearly membership to the WDL for an additional $600.00/yr.

If you do not belong or qualify to belong to the KGS library, you can purchase a yearly membership to the WDL for $1500.00 /yr.
Security for AAPG Members & Their Families Through Group Insurance

- Life
- Health
- Dental
- Disability
- Auto and Homeowner
- Supplemental Plans

AAPG’s GeoCare Benefits Insurance Program
P. O. Box 189
Santa Barbara, CA 93102-0819
800-337-3140
E-mail: geocarebenefits@agia.com
www.geocarebenefits.com

Kansas Geological Foundation Video / DVD Collection

The KGF has an extensive collection of videos available for check-out at no charge. Only pay for shipping back.

These are ideal for classroom or general public viewing.

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

Call 316-265-8676
Ask for Janice to check out videos

KANSAS GEOPHYSICS IN THE 21ST CENTURY

A symposium to be held in Wichita in the fall of 2010.

An update of the Kansas Geological Survey’s Bulletin 137 (1959)
Symposium on Geophysics in Kansas

Sponsored by:

Kansas Geological Society
Kansas Geophysical Society
Kansas Geological Survey

Watch for time & venue

~The TOP CHOICE for 3D SEISMIC~


PHONE (316) 636 - 5552  FAX (316) 636 - 5572
3500 N. Rock Rd., Bldg 800, Suite B
Wichita, KS 67226
paragon@paragongeo.com

www.kgslibrary.com
Memorials

James (Jim) Flavius Dilts, age 60, died at his residence in Garden City, Kansas on May 14, 2010. He was the son of KGS past President Robert L. Dilts, deceased, and survived by his sister, KGS member Christine (Chris) Dilts Knighton and son Derek Dilts of Wichita. A memorial fund has been established with the Kansas Geological Foundation for scholarships for WSU Geology majors.

The Kansas geological community lost a hard working field and exploration geologist. Jim was employed by American Warrior, Inc. in Garden City and sat wells for this company and conducted extensive exploration projects using 3D seismic and detailed mapping. Jim was an extremely capable petrophysicist utilizing his extensive knowledge of the rock columns in his areas of interest and an uncanny ability with electric logs.

Jim graduated from WSU with a degree in geology. He began his career working for Charlie King at APC, later branching off on his own as a consultant. Jim, Chris and Bob Dilts had a consulting firm prior to the “bust” in 1985 that sent our industry into a horrific tailspin and saw Jim transition into computer work and geological mapping. He excelled at these. Ultimately he found employment with American Warrior. Jim was thriving in this element and very happy with all the varied work there. Many may not have known Jim’s other accomplishments because he was “so quiet”. Jim grew up on a farm 2 ½ miles west of Hesston, Kansas. He could do anything with machinery. He was active in Boy Scouting and attended an International Jamboree in Sweden. He worked on glacial research with the Juneau Ice Field Research Program in Alaska. He was Flotilla Commander in the US Coast Guard Auxiliary at Cheney Reservoir. And, more importantly he was a staunch friend who would help anyone in his beloved profession of geology with advice and assistance.

“We are at a loss for words at this untimely and sudden loss. This was totally unexpected. We will miss him immensely,” Phil & Chris Knighton.

Jerry Pike, one of Kansas' most outstanding geologists and a pillar of the industry passed away on Saturday, May 22 at the age of 90. Jerry was a great "oil finder" and respected by his fellow geologists. He was born on a farm 10 miles west of Wichita in January of 1920. He attended schools in the area and graduated from Goddard High School in 1938. He then enrolled in Friends University with the goal in mind of becoming a CPA.

Jerry applied and was accepted for pilot training in the Air Force and received his commission and wings in 1943. While stationed at Hobbs, New Mexico he became interested in the nearby oilfields and when he was discharged in 1945 and arrived back in Wichita he enrolled in geology. With graduation in 1948, he continued his former part-time employment with Derby Oil Company as a full time employee. In 1950 he joined Pickrell Drilling and was heavily involved in the development and exploitation of Spivey Grabbs and Glick Oil Fields. After departing from Pickrell he worked as an Independent geologist and developed other successful prospects. During his career, Jerry gave back a great deal to his profession including, but not limited to: Vice-President and President of the Kansas Geological Society. He also served as a director of the Kansas Geological Foundation.

Jerry developed a tree farm near Atlanta, Kansas with over 15,000 trees. He later phased out of the "trees-for-sale" business. He is survived by his wife, Ruby Pike, children; John Pike, Jane McHugh, step-children; Kaye Martin, Elizabeth Kaelson, Francis Mayer, Carol Kaelson and Gary Kaelson, 4 grandchildren and 6 step-grandchildren. The family has designated the First Presbyterian Church of Wichita as a memorial. A memorial has also been established with the Kansas Geological Foundation.
**Burt Schmidt** a retired Petroleum Geologist, passed away Monday, May 17, 2010 at the age of 76. Burt was born in Freeman, South Dakota in 1934, but was raised in Newton, Kansas where he graduated from high school. He attended Kansas State University and played on the football team in 1953-55. He graduated in 1956. After graduation he worked for a period for Louis Kahn, but most of his geological career was spent working as a consultant. He married Judy Dockum and they had been married 46 years at the time of his passing.

As a result of his being a former player he was an avid fan of K-State Football and also he greatly enjoyed golf. Besides his wife, Burt is survived by a son; Robert Schmidt, and daughter; Tracy Harrelson, three grandchildren, and 2 great grandchildren. Burt was a member of Holy Cross Lutheran Church for over 50 years. A memorial service was held on Saturday May 22, 2010 at Lakeview Funeral Home Chapel. The family has designated the Kansas Humane Society, 3313 N. Hillside, Wichita, KS 67219 as a memorial.

---

**Walter I. “Flip” Phillips, Jr.** was a Valentine baby born on February 14, 1961 in Wichita, Kansas and was adopted by Innes & Patsy Phillips. He attended the University of Kansas from 1980 until he graduated in 1984 with a degree of BS in Geology. In his early years until university, he spent as much time as possible hunting and fishing. On October 3, 1987 he married Joni Mcclendon and adopted her son Jarrod. On August 5, 1988 they had a daughter Jessica.

Upon his graduation from college, Flip started his oil field training under the supervision of Bo Darrah. Flip learned many production and exploration lessons under Bo’s loose supervision, learning to use his own wits to solve problems. Flip also did geology, wellsite work and mapping in the many areas that Bo worked, ie Colorado, Kansas, Wyoming, Montana, and North Dakota. Flip soon realized that he loved Kansas and Eastern Colorado work, but that the cold north was too far away. From 1985 on he became a Kansas explorer, including buying others existing production to develop. His many field contacts allowed him to have an exceptional talent to purchase production economically and to develop its potential. From 1988 until his death on May 28, 2010, he was the Exploration Manager and Production Supervisor for Pintail Petroleum, Ltd. Flip’s excellent track record allowed him to sell his many 3-D seismic ideas to management and partners. Their success enhanced both Pintail’s and Flip’s reputation as Explorers.

On February 21, 2009, Flip married his long time friend and soul-mate, Lana Hanzlick, in the Bahamas surrounded by their many friends and family. The two of them loved to watch wells together while staying at their lake house at Cedar Bluff. They also loved to hunt all kinds of game together. They had planned a number of hunts for the fall of 2009, which they were able to enjoy prior to his feeling too ill to continue. Flip and Lana also started building a house at The Moorings at Crystal Lake which was their dream home. They finished that home in time for them to live there together for his last few months. Flip’s passions were his family, his geology, and his hunting. He is survived by his wife Lana, children Jarrod & Jessica Phillips of Derby, step-children Chelsea and Courtney Hanzlick of Wichita and Justin Hanzlick of Augusta, grandson Kamren Loch of Wichita, sister Julie of Kansas City, and father Innes Phillips. Memorials include the American Cancer Society, Ducks Unlimited, and the Rocky Mountain Elk Foundation.
The Foundation’s Accelerated Integration Project is well underway. Being headed up by Ted Jochems, we have enlisted the help of Gracie Crisler, Nolan Mans, Seun Olaosebikan & Patrick Wilson. This team has already processed over 3 tons of trash in the way of duplicate documents, miscellaneous paper, and empty boxes. They are busy integrating logs and geology reports and other pertinent data into what is referred to as the “married set” which puts it into Section, Township, Range for further comparison against the library’s files upstairs. This set will be accessible to the membership for research. They are processing tens of thousands of such documents. Below are some before and “where we are today” photos. I will keep updating this information for the members to see what is getting accomplished.

This project is still in need of funding. We had some very generous donations come in at the beginning but this will be an ongoing project and we would like to keep at least one student employed during the school term so if you are inclined to do so, please consider donating $$ to this project. Remember, anything you donate is tax deductible.
Mr. Rick Saenger called the meeting to order at 11:40 A.M.

FINANCIAL REPORT/MANAGERS REPORT

A. Treasurer’s Report - Mrs. Radford gave the Treasurer’s report in the absence of Mr. Clothier. The report showed total interest on investments for the period of $1,015.26 with a total of all accounts, including two bank accounts, at $560,193.84. There was not a quorum present so motion to approve the report was postponed until the June board meeting.

B. Manager’s Report - Mrs. Radford presented the Manager’s Report as of April 30, 2010. Monthly income was $33,346.40 with expenses of $46,717.06. The Walters Digital library income was $12,442.50 with expenses of $21,490.33. The bulk of the expense on the Digital Library was a payment made to the Kansas Geological Survey for programming of $20,114.50. The Society has 685 members with 180 paper library members. The Digital library has a total of 177 members.

OLD BUSINESS

A. Membership Survey - Survey has been distributed and so far has seen a good response.

B. Employee Review Process - Will focus on employee reviews after the membership surveys are finished

C. Geo-Tech Membership Category - This topic will be tabled until October and then will be included on the ballots for the next election.

NEW BUSINESS

A. Oklahoma City Geological Society Library - Reciprocity request. Mr. Callen noted that due to a purely financial reason, we cannot afford to lose the $17,000/year or the membership at this time.

B. KGS Server

• NetSystems does not have email service, so the choice is between Microsoft Exchange and Constant Contact.
• How will we be able to exchange large files, such as extensively long logs?
  o FTP server?
  o Currently, the server (new) will not handle the load.
  o Could have designated station (work station) to help with these files instead of using server
  o Could we have Eileen write the program?
  o Mr. Callen suggests possibly making the FTP part of WDL instead of paper library.

C. LAS Files

• It has been brought up by multiple members to look into LAS files. Right now, we need to check with Eileen to see what the demand is for these specific files through the Survey to see if it would be worth pursuing.

ADJOURNMENT - Meeting adjourned at 1:15 pm.

June 8, 2010  Mr. Rick Saenger called the meeting to order at 11:40 A.M.

FINANCIAL REPORT/MANAGERS REPORT

A. Treasurer’s Report - Dave Clothier presented the Treasurer’s Report and noted that the formula for totaling the interest accrued for the month and for the year was incorrect. The interest for the month of May should have totaled $665.68. The year to date interest for 2010 should have totaled $2,644.82. The problem with the formula for totaling interest did not affect total values of the CD and bank balances. It was noted that a CD at Kanza State Bank matures on June 23rd. Upon a motion by Dave Clothier, seconded by Doug Davis, the treasurer was directed to renew the CD with a local financial institution at the best possible interest rate in a term not to exceed 18 months.

B. Manager’s Report - Rebecca reported that the Kansas Geological Society and Library showed net operating loss of $1,280.06 for the month of May. The library also paid for new computer hardware, software and training to replace the failing server system, in the amount of $10,119.95. The WDL report indicated 177 members as of May 5th and a net income of $9,214.96 for May. Rebecca reported that she had received a check from our attorneys in the amount of $1,601.26 to close out the trust account. This should formally close out the legal action related to prior reprogramming efforts of the WDL.

Rick handed out a listing of the net income reported on the Manager’s report beginning with January 1, 2007, which is actually a report of cash flow rather than income. The listing showed a disturbing trend of negative monthly income beginning with September, 2007. He explained that he had made to effort to analyze the reports to separate out operating versus non-operating charges that might affect the trends. Considerable discussion followed with recognition that this will require further analysis.

OLD BUSINESS

A. Membership Surveys - Rebecca reported that they have received a good number of survey of membership demographics and that it is probably time to begin tabulating the results. It was noted that this information will be helpful in further analyzing Library cash flow trends. Rick agreed to move the process along.

B. Employee Performance Review - Rick stated that he was continuing to work on the process with a goal to have this project completed by October.

NEW BUSINESS

Rick reported that he has received several complaints about the images in the preview mode from a few users. It was noted that the Survey is in the process of reprocessing the images to improve this, but the number of images means this will take some time to accomplish. Rebecca also noted that she has responded to viewer complaints, but that with the new software, we can now respond and correct errors that are brought to our attention, the first time we have a process to make corrections. She mentioned that she has found that all of the scout cards in Pratt County have been incorrectly linked to the well records. She has been personally correcting the links and has completed about 4 townships to date. The problem appears to be related to problems with the original scans and links from the initial creation of the WDL.

ADJOURNMENT - Meeting was adjourned at 1:15 pm.

Respectfully submitted,
Marjorie Noel, Secretary and Jon M. Callen, For the Secretary
KGS Golf Tournament was held again this year at Hidden Lakes Golf Course in Derby.

Food was provided by Pat Kane of Tucker Wireline Services and Kolby Nye of Jayhawk Oilfield Supply.

Thanks to these two guys for cooking up some excellent grub which was served at the turn. Some folks got longer brats than others…….ask Don Beauchamp
Geo-Scenes

Accreted (Exotic) Terranes

Being in Kansas we are accustomed to thinking about sediment deposition and stratigraphic development during the Phanerozoic (= Paleozoic, Mesozoic and Cenozoic) as having occurred in tectonically quiescent settings. For the most part, the lithostratigraphy of Phanerozoic rocks in Kansas reflects mainly slow subsidence or mild uplift, and slight to considerable sea-level fluctuations; and the geological history of the state was interrupted only briefly at times by somewhat more pronounced tectonism along the Nemaha Uplift, Central Kansas Uplift, and the Pratt Anticline. As a result, the rocks in the state are in “normal” stratigraphic context (that is, oldest to youngest in ascending order), and normal provincial context – that is, the siliciclastics (conglomerates, sandstones, siltstones, and shales) were derived from erosion of local highlands, and the carbonates represent in-situ deposition in shallow-marine seas that periodically covered the state. In other words, on the gross scale all of the Phanerozoic sedimentary rocks in Kansas were “born” here.

Figure 1 is a photo looking south along the Oregon coastline. Here, the Pacific plate is being subducted (to the east) beneath the North American plate. In contrast to Kansas, the rugged hills along this coastline comprise both ocean-floor sediments (mainly deep-sea turbidites of interbedded sandstone and shale) and large and small islands mainly of basaltic composition that were scraped off the eastward subducting plate and accreted onto the leading edge of the North American plate. Such rocks, particularly the basaltic islands, represent “exotic terranes” that formed somewhere other than on the North American continent. It took many years for geologists to recognize the existence of such exotic terranes and to unravel their complex geologic history. Here in Kansas we have it considerably easier. The only time that Kansas may have been involved in such exotic terrane accretion was during the early to middle Precambrian, when the North American craton was being assembled.

Unconformity Beneath Marine Sands

Unconformities are common components of the stratigraphic record. Petroleum geologists in Kansas, for example, are keenly aware of the significance of unconformities not only in regard to their formation and temporal significance, but also to their relevance to petroleum exploration. Figure 2 is a view of the Oregon coastline that shows seaward-dipping, erosionally-truncated Tertiary rocks that are in the process of being buried beneath modern beach sands – a modern example of the formation of subunconformity truncation traps that commonly are associated with subsurface accumulations of oil and gas in the Paleozoic rocks of Kansas.

Submitted by Sal Mazzullo
Geo-Scenes (continued)

Figure 1. – View of the Oregon coastline looking toward the south. Basaltic islands and accreted deep-sea turbidites are indicated. Photo by Sal Mazzullo.

Figure 2. – Seaward-dipping, erosionally-truncated Tertiary rocks (arrow) being buried unconformably beneath modern beach sands along the Oregon coast. Photo by Sal Mazzullo.
Wichita State Field Camp 2010

The Society has two WSU geology students working at the library, Kyle Day and Tom Dudgeon. Both attended WSU Field Camp this spring and below are some photos Kyle shared with us.

The students investigated sedimentary, igneous, and metamorphic sequences from the eastern flank of the Wet Mountains and the western San Juans to collapse structures of the Paradox Basin; all whilst camping and enjoying the infamous talents of Dr. Gries around the camp fire.
Kirk Rundle
Consulting Geophysicist
3D Seismic Design, Acquisition to Processing QC.,
Interpretation and Analysis, Subsurface Integration
7340 W. 21st. N., Ste. 100
Wichita, Kansas 67205
Office: 316-721-1421               Fax: 316-721-1843
Email:kirk@rundlegeo.com

DON V. RIDER
Consulting Petroleum Geologist
Well Site Supervision
Geological Studies
Completions
8910 W. Central Park Ct.
Wichita, KS 67205
Office PH: 316-729-4445      Cell PH: 316-706-7199

LANG J. FUQUA
Certified Petroleum Geologist
4201 Tanglewood Ln.
Frisco, Texas  75035

WESLEY D. HANSEN
Consulting Geologist
Well site Supervision
Geologic Studies
212 N. Market, Ste 257
Wichita, Kansas 67202
Off: (316) 263-7313
Mobile: ( 316) 772-6188

M. Bradford Rine
Honorary Life Member—Kansas Geological Society
Licensed Geologist—KS. # 204
Registered Professional Geologist—Wyo. # 189
Certified Geologist—A.A.P.G. # 2647
S.I.P.E.S. # 1584 - S.P.E. #108933-4
PROSPECT EVALUATION • PROSPECT GENERATION
WELL SITE SUPERVISION • EXPERT TESTIMONY • OPERATIONS
PROPERTY EVALUATION • RESERVOIR STUDIES
DELEG. COMP. CONSULTATION
SUTA 415
305 S. Main
Wichita, KS 67202
Office (316) 267-7592
alfred.james55@yahoo.com

ROGER L. MARTIN
Independent Petroleum Geologist
200 E 1st St, Ste 405, Wichita, KS 67202
Office 316-833-2722    Cell: 316-250-6970
KS Field Cell: 316-655-1227
Fax: 316-425-3829
Email: rogermartingeo@yahoo.com

ALFRED JAMES III
Petroleum Geologist
Kansas - Colorado - Utah
200 W. Douglas, Ste. 525, Wichita, Kansas  67202
SIPES # 1111
Office (316) 267-7592
alfred.james55@yahoo.com

WESLEY D. HANSEN
Consulting Geologist
Well site Supervision
Geologic Studies
212 N. Market, Ste 257
Wichita, Kansas 67202
Off: (316) 263-7313
Mobile: ( 316) 772-6188

MELLAND ENGINEERING
Petroleum Engineering & Geological Consulting
James E. Melland, P.E.
Owner
Office: (620) 241-4621  Fax: (620) 241-2621
Cell Phone: (661) 319-5950
Email: jemelland@sbcglobal.net
Jamesm@mellandengineering.com

ROBERT J. GUTRU
Geologist
300 Farmers & Bankers Bldg.
200 East First Street
Wichita, Kansas 67202
Off: (316) 265-3402

MELLAND ENGINEERING
Petroleum Engineering & Geological Consulting
James E. Melland, P.E.
Owner
Office: (620) 241-4621  Fax: (620) 241-2621
Cell Phone: (661) 319-5950
Email: jemelland@sbcglobal.net
Jamesm@mellandengineering.com
P.O. Box 841, McPherson, KS  67460

KGJ ENTERPRISES
Contract Oil & Gas Accounting & Office Management
Kathryn G. James, MBA
4278 SW 100th ST.
Augusta, KS 67010
(316) 775-0954 (316) 250-5989
kgjames@onemain.com
Help Wanted!
Integration Project

If you have any time you could give to the Library, we have projects that could move a little faster with some Expert Professional Geologists.

Just a few hours a week would make such a difference.

To volunteer, please contact Ted Jochems or Rebecca at the Library 265-8676

PROFESSIONAL DIRECTORY

BRUCE GOLOB
Geophysical Consultant

- 3D Seismic Interpretation, Mapping & Depth Conversion
- Well Log-to-Seismic Integration, Phase Matching
- Processing / Re-Processing Guidance & QC
- World-Wide Experience, Kansas Focus

Cell: 303-618-0972 Email: BruceGolob@yahoo.com

Blue Ribbon Drilling, LLC
PO Box 279, Dewey, OK 74029

Phone and Fax: 918-534-2322
John’s Cell Phone: 918-440-9639
Larry’s Cell Phone: 918-440-9638
Jeff’s Cell Phone: 918-440-9647
Email: johnrountree@bratco-operating.com

KGS Picnic
Friday, August 13th
All Star Sports West
Bring the kids and grandkids
Come out and enjoy the evening!

www.kgslibrary.com
10 Drilling Rigs
For contract information, please contact:
Blaine Miller / Drilling Department
316-858-8607 (Direct) or 316-267-3241
250 N. Water #300—Wichita, KS 67202

10 Well Service Rigs &
Roustabout Services
For contract information, please contact:
Alan Hays, Well Service Sprvsr.
785-421-2103 or 785-567-8739 (cell)
East Highway 24—Hill City, KS 67642

Duke Drilling
ROTARY DRILLING CONTRACTOR
620 Hubbard, PO Box 823
Great Bend, KS 67530
Phone 620-793-8366

Lockhart Geophysical Company
Call (303) 592-5220 FAX (303) 592-5225
Or E-mail lockden@xpert.net
2D & 3D Seismic Acquisition
Vibroseis Specialists
JAPEX GDAPS-4 Distributed System
We’ll give you seismic excellence

Tomcat Drilling
3 Rotary Rigs - Rotary Drilling Contractor
Southwest Kansas • Oklahoma & Texas Panhandles
Tim Sanders
316-259-1652 Cell
316-262-8554 phone
316-267-5180 Fax
100 S. Main, Suite 508—Wichita, KS 67202
tjsanders@tomcat.kscoxmail.com

Allied Cementing Co., Inc.
Acidizing Available at Medicine Lodge District
Russell
(785) 483-2627
Oakley
(785) 672-3452

MBC
WELL LOGGING & LEASING
UNMANNED GAS DETECTORS
MUD LOGGING
CERTIFIED INSTRUMENT TECH
SERVING THE KAN-O-TEC AREA SINCE 1990
AUSTIN GARNER MARLA GARNER
24-HOUR PHONE (620) 873-2953
MEADE, KANSAS

Sunrise Oilfield Supply
FULL LINE SUPPLY STORE
With Pump Shop Offering New & Used Pipe, Equip. & Fittings Employee Owned
SALES OFFICES
Wichita, KS 800-777-7672
Great Bend, KS 316-792-3130
New Office Hugoton, KS 620-428-6604

STORES
Ness City, KS 800-589-5733
El Dorado, KS 316-321-9323
Garden City, KS 877-976-1700
Spivey, KS 316-532-5261
McCook, NE 308-345-1542

www.kgslibrary.com
Exploration Highlights

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

(1) Vincent Oil Corp. has discovered Pennsylvanian and Mississippian oil and gas reserves at the McCarty No. 1-26, located in the SW/4 of section 26- T28s- R23W, in Ford county. The new Sodville North field lies over one mile east of the Mulberry Creek field where the Marmaton, Morrow and Mississippian zones all produce. The well was drilled to a total depth of 5440 ft. about four and one-half miles southwest of Ford, Kansas. No production details have been released.

(2) Samuel Gary Jr and Associates has opened the new Long Bow oil field in Barton county with the completion of the Stueder No. 1-5, SE/4 of section 5- T18s- R11W. The wildcat well was drilled to a total depth of 3470 ft. Well is on pump at an undisclosed rate with pay coming from Lansing-Kansas City perforations. Site is located three-quarters mile northwest of the Ames Northwest field (LKC and Arbuckle oil), about one mile southwest of Claflin, Kansas.

(3) H & C Oil Operating has opened two new oil fields in Graham county. First, the Ringneck No. 21-1 was drilled in the SW/4 of section 21- T6s- R23W to a total depth of around 3950 ft. The wildcat well is producing an undetermined amount of crude from the Lansing-Kansas City limestones. Discovery site lies over three-quarters mile northwest of known production in the Hansen field and is about ten miles northwest of Hill City, Kansas.

(4) In the SW/4 of section 6- T6s- R23W, H & C’s No. 6-1 Wyrill is on pump for an undisclosed rate with production coming from the Lansing-Kansas City formation. The well was bottomed at around 3950 ft at location nearly four miles southeast of Lenora, Kansas. Site lies almost two miles northwest of closest nearby production in the Norham South field. The new oil fields remain unnamed at this time.

(5) Landmark Resources, Inc. established the new Burris Draw field in southeastern Logan county in February, 2010. New information released corrects the pay zone from Morrow to Marmaton. The discovery well, No. 1-31 Ottley, SE/4 of section 31- T14s- R32W, was completed for 47 barrels of oil and 25 barrels of water per day. Though operator also tested shows in the Morrow, Cherokee and Pawnee zones, production was settled from the Altamont member of the Marmaton formation, perforated with four holes per foot from 4237 to 4243 ft. Log top of the Altamont was called at 4175 (-1347 KB) by geologist Terry L. McLeod. Rotary total depth is 4510 ft. Field area is located about sixteen miles southeast of Russell Springs, Kansas.

(6) H & M Petroleum Corp. is pumping 83 barrels of oil and 10 barrels of water per day at the Oil Creek No. 1, a new pool discovery located three miles southwest of Morland, Kansas in Graham county. Operator used WW Drilling LLC tools to drill the well to a total depth of 4068 ft in the NE/4 of section 3- T9s- R25W. The Lansing-Kansas City ‘D’ zone was perforated and acidized from 3837 to 3839 ft. First production commenced on March 4, 2010. Crude gravity is 31.5 degrees. Discovery site lies over one mile southeast of LKC production in the Knoll Northeast field. The new field has been named Shiloh West.

(7) McCoy Petroleum Corp. has a new oil discovery in Rooks county with the completion of the No. 1-3 Bellerive A, spotted in the SW/4 of section 3- T7s- R19W. The Riseley infield wildcat found the Lansing-Kansas City ‘A’, ‘I’, ‘J’ and ‘K’ limestones to be productive at an undisclosed potential. Sterling Drilling Company tools bottomed the well at a total depth of 3480 ft. Field area is located three-quarters mile east of multipay production in the Locust Grove field, about eight miles northwest of Stockton, Kansas.
(8) Raymond Oil Company, Inc. is producing an unknown amount of crude oil from the Cherokee Sandstone formation at the Habiger Living Trust No. 1, located in the NE/4 of section 28- T18s- R27W. The wildcat well was drilled less than one-quarter mile north of the town of Alamota, Kansas in Lane county. Rotary total depth is 4661 ft. L. D. Drilling served as contractor. Closest established production lies nearly three-quarters mile to the northeast of well site in the Alamota field (Cherokee and Mississippian oil). The new field was named Alamota Townsite.

(9) Presco Western, LLC has established Mississippian oil and gas production over one mile west of Morrow and Mississippian wells in the Gooch field in Stevens county. The No. 4-B (12-35-36) Wiggains, NE/4 of section 12- T35s- R36W, is producing pay from the Chester formation. Production volume is unknown. Operator drilled the well to a total depth of 6700 ft. The Gooch field extension (infield discovery) is situated slightly over thirteen miles west of Liberal, Kansas.

(10) H & C Oil Operating, Inc. has completed their Campbell No. 18-1 for an undisclosed potential in Graham county. The new Uplands pool discovery is producing crude from the Lansing-Kansas City zones with total depth stopped at 3905 ft. American Eagle Drilling tools were used. Well site is located in the SE/4 of section 18- T6s- R23W, about six miles southeast of Lenora, Kansas, and is over two and one half miles northeast of the Hoosier field (LKC oil).

(11) EOG Resources, Inc. is producing an undisclosed amount of crude oil at the Kramer No. 1-1, drilled in the SW/4 of section 1 - T34s- R38W, in Stevens county. The Kramer discovery found significant oil deposits over one and one quarter miles northeast of the Verna field (Morrow gas and Mississippian oil), also discovered by EOG in 2006. Total depth was reached at 6700 ft. Producing zone has not been reported. The new Verna Northesat field is located almost five miles southwest of Hugoton, Kansas.

(12) Lario Oil & Gas Company has discovered Lansing-Kansas City and Cherokee oil deposits in Logan County with the successful completion of their No. 1-36 Krebs Credit Shelter. The wildcat well was placed on pump in mid March for an undisclosed potential. Well site lies in the NE/4 of section 36- T14s- R32W, about twenty miles southeast of Russell Springs, Kansas. Total depth stopped at 4414 ft. Closest known production is located over two miles to the east in Gove County. The new field has not been named.

(13) Larson Operating Company is producing an unknown amount of crude oil at the Cramer No. 1-22, spotted in the SW/4 of section 22- T17s- R30W, in Lane County. The Magie Southeast pool opener found new oil reserves nearly one and one-quarter miles northeast of Lansing-Kansas City and Marmaton pay in the Dowd Field which was established by Ritchie Exploration in 2007. H. D. Drilling tools bottomed the well at a total depth of 4620 ft. Production zone and well potential is not available. Field area is located about two and one-half miles southwest of the town of Healy, Kansas.

(14) H J, Inc. has a multiple zone oil discovery in Haskell County at the No. 1 Leonard 1-30, located in the SE/4 of section 30-T30s -R32W. The well establishes the new Arapahoe Field less than one mile north of producing wells in the older Victory East Field. Trinidad Drilling tools drilled the well to a total depth of 5800 ft. Operator had eight zones testing shows of hydrocarbons. The well was completed in the Lansing-Kansas City and Marmaton zones. Production depth and potential is confidential. The new field is located nearly five miles southwest of Sublette, Kansas.
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 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 Janice Bright 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 Janice Bright at 265-8676.
<table>
<thead>
<tr>
<th>KGS Member</th>
<th>Date Deceased</th>
<th>Memorial Established</th>
<th>KGS Member</th>
<th>Date Deceased</th>
<th>Memorial Established</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dan Bowles</td>
<td>09/89</td>
<td>1990</td>
<td>Floyd W. “Bud” Mallonee</td>
<td>10/00</td>
<td>2000</td>
</tr>
<tr>
<td>John Brewer</td>
<td>10/89</td>
<td>1990</td>
<td>Ralph W. Ruuwe</td>
<td>09/00</td>
<td>2000</td>
</tr>
<tr>
<td>George Bruce</td>
<td>08/89</td>
<td>1990</td>
<td>Robert L. Slamal</td>
<td>02/01</td>
<td>2001</td>
</tr>
<tr>
<td>Robert Gebhart</td>
<td>01/90</td>
<td>1990</td>
<td>Jerold E. Jesperson</td>
<td>06/01</td>
<td>2001</td>
</tr>
<tr>
<td>Ray Anderson, Jr.</td>
<td>11/90</td>
<td>1990</td>
<td>William A. Sladek</td>
<td>06/01</td>
<td>2001</td>
</tr>
<tr>
<td>Harold McNeil</td>
<td>03/91</td>
<td>1991</td>
<td>Harlan B. Dixon</td>
<td>06/01</td>
<td>2001</td>
</tr>
<tr>
<td>Millard W. Smith</td>
<td>08/91</td>
<td>1991</td>
<td>Edward B. Donnelly</td>
<td>08/01</td>
<td>2001</td>
</tr>
<tr>
<td>Clinton Engstrand</td>
<td>09/91</td>
<td>1991</td>
<td>Richard P. Nixon</td>
<td>02/02</td>
<td>2002</td>
</tr>
<tr>
<td>James &amp; Kathryn Gould</td>
<td>11/91</td>
<td>1991</td>
<td>Gerald W. Zorger</td>
<td>01/02</td>
<td>2002</td>
</tr>
<tr>
<td>E. Gail Carpenter</td>
<td>06/91</td>
<td>1993</td>
<td>Don L. Calvin</td>
<td>03/02</td>
<td>2002</td>
</tr>
<tr>
<td>Benton Brooks</td>
<td>09/92</td>
<td>1992</td>
<td>Claud Sheats</td>
<td>02/02</td>
<td>2002</td>
</tr>
<tr>
<td>Robert C. Armstrong</td>
<td>01/93</td>
<td>1993</td>
<td>Merle Britting</td>
<td>2002</td>
<td>2002</td>
</tr>
<tr>
<td>Nancy Lorenz</td>
<td>02/93</td>
<td>1993</td>
<td>Harold Trapp</td>
<td>11/02</td>
<td>2002</td>
</tr>
<tr>
<td>Norman R. Stewart</td>
<td>07/93</td>
<td>1993</td>
<td>Donald M. Brown</td>
<td>11/02</td>
<td>2003</td>
</tr>
<tr>
<td>Robert W. Watchous</td>
<td>12/93</td>
<td>1993</td>
<td>Elwyn Nagel</td>
<td>03/03</td>
<td>2003</td>
</tr>
<tr>
<td>J. George Klein</td>
<td>07/94</td>
<td>1994</td>
<td>Robert Noll</td>
<td>09/03</td>
<td>2003</td>
</tr>
<tr>
<td>Harold C.J. Terhune</td>
<td>01/95</td>
<td>1995</td>
<td>Benny Singleton</td>
<td>09/03</td>
<td>2003</td>
</tr>
<tr>
<td>Carl Todd</td>
<td>01/95</td>
<td>1995</td>
<td>Jay Dirks</td>
<td>2003</td>
<td>2003</td>
</tr>
<tr>
<td>Don R. Pate</td>
<td>03/95</td>
<td>1995</td>
<td>J. Mark Richardson</td>
<td>02/04</td>
<td>2004</td>
</tr>
<tr>
<td>R. James Gear</td>
<td>05/95</td>
<td>1995</td>
<td>John “Jack” Barwick</td>
<td>02/01</td>
<td>2004</td>
</tr>
<tr>
<td>Vernon Hess</td>
<td>06/95</td>
<td>1995</td>
<td>Richard Roby</td>
<td>03/04</td>
<td>2004</td>
</tr>
<tr>
<td>E. K. Edmiston</td>
<td>06/95</td>
<td>1995</td>
<td>Ruth Bell Steinberg</td>
<td>2004</td>
<td>2004</td>
</tr>
<tr>
<td>Jack Rine</td>
<td>07/95</td>
<td>1995</td>
<td>Gordon Keen</td>
<td>03/04</td>
<td>2004</td>
</tr>
<tr>
<td>Lee Cornell</td>
<td>08/95</td>
<td>1995</td>
<td>Lloyd Tarrant</td>
<td>05/04</td>
<td>2004</td>
</tr>
<tr>
<td>John Graves</td>
<td>10/95</td>
<td>1995</td>
<td>Robert J. “Rob” Dietterich</td>
<td>08/96</td>
<td>2004</td>
</tr>
<tr>
<td>Wilson Rains</td>
<td>10/95</td>
<td>1995</td>
<td>Mervyn Mace</td>
<td>12/04</td>
<td>2004</td>
</tr>
<tr>
<td>Heber Beardmore, Jr.</td>
<td>09/96</td>
<td>1996</td>
<td>Donald Hoy Smith</td>
<td>04/05</td>
<td>2005</td>
</tr>
<tr>
<td>Elmer “Lucky” Opfér</td>
<td>12/96</td>
<td>1996</td>
<td>Richard M. Foley</td>
<td>06/05</td>
<td>2005</td>
</tr>
<tr>
<td>Raymond M. Goodin</td>
<td>01/97</td>
<td>1997</td>
<td>Wayne Brinegar</td>
<td>06/05</td>
<td>2005</td>
</tr>
<tr>
<td>Donald F. Moore</td>
<td>10/92</td>
<td>1997</td>
<td>Jack Heathman</td>
<td>05/06</td>
<td>2006</td>
</tr>
<tr>
<td>Gerald J. Kathol</td>
<td>03/97</td>
<td>1997</td>
<td>Charles Kaiser</td>
<td>09/06</td>
<td>2006</td>
</tr>
<tr>
<td>James D. Davies</td>
<td>08/88</td>
<td>1997</td>
<td>Rod Sweetman</td>
<td>08/06</td>
<td>2006</td>
</tr>
<tr>
<td>R. Kenneth Smith</td>
<td>04/97</td>
<td>1997</td>
<td>Karl Becker</td>
<td>10/06</td>
<td>2006</td>
</tr>
<tr>
<td>Robert L. Dilts</td>
<td>05/97</td>
<td>1997</td>
<td>Frank Hamlin</td>
<td>10/06</td>
<td>2006</td>
</tr>
<tr>
<td>Delmer L. Powers</td>
<td>06/72</td>
<td>1997</td>
<td>Marvin Douglas</td>
<td>12/06</td>
<td>2006</td>
</tr>
<tr>
<td>Arthur (Bill) Jacques</td>
<td>01/98</td>
<td>1998</td>
<td>Eldon Frazeys</td>
<td>04/07</td>
<td>2007</td>
</tr>
<tr>
<td>Bus Woods</td>
<td>01/98</td>
<td>1998</td>
<td>Pete Amstutz</td>
<td>05/07</td>
<td>2007</td>
</tr>
<tr>
<td>Frank M. Brooks</td>
<td>03/98</td>
<td>1998</td>
<td>Charles Spradlin</td>
<td>05/07</td>
<td>2007</td>
</tr>
<tr>
<td>Deane Jirrels</td>
<td>05/98</td>
<td>1998</td>
<td>Glen C. Thrasher</td>
<td>03/08</td>
<td>2008</td>
</tr>
<tr>
<td>William G. Iversen</td>
<td>07/98</td>
<td>1998</td>
<td>Peg Walters</td>
<td>06/08</td>
<td>2008</td>
</tr>
<tr>
<td>Joseph E. Rakaskas</td>
<td>01/99</td>
<td>1999</td>
<td>Walter DeLozier</td>
<td>05/09</td>
<td>2009</td>
</tr>
<tr>
<td>Charles W. Steincamp</td>
<td>02/99</td>
<td>1999</td>
<td>John Stone</td>
<td>02/10</td>
<td>2010</td>
</tr>
<tr>
<td>Robert and Betty Glover</td>
<td>10/96</td>
<td>1998</td>
<td>Craig Calk</td>
<td>03/10</td>
<td>2010</td>
</tr>
<tr>
<td>Howard E. Schwertfeger</td>
<td>11/98</td>
<td>1999</td>
<td>Joseph E. Moreland, Jr.</td>
<td>03/10</td>
<td>2010</td>
</tr>
<tr>
<td>W. W. &quot;Brick&quot; Wakefield</td>
<td>03/99</td>
<td>1999</td>
<td>Gene Garmon</td>
<td>03/10</td>
<td>2010</td>
</tr>
<tr>
<td>V. Richard Hoover</td>
<td>01/00</td>
<td>2000</td>
<td>James F. Dilts</td>
<td>5/10</td>
<td>2010</td>
</tr>
<tr>
<td>Warren E. Tomlinson</td>
<td>01/00</td>
<td>2000</td>
<td>Jerry Pike</td>
<td>5/10</td>
<td>2010</td>
</tr>
<tr>
<td>James A. Morris</td>
<td>01/00</td>
<td>2000</td>
<td>Donald Hollar</td>
<td>6/10</td>
<td>2010</td>
</tr>
<tr>
<td>Eric H. Jager</td>
<td>03/00</td>
<td>2000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kenneth W. Johnson</td>
<td>03/00</td>
<td>2000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dean C. Schanke</td>
<td>03/00</td>
<td>2000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fred S. Lillibridge</td>
<td>05/00</td>
<td>2000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jerry A. Langrehr</td>
<td>07/00</td>
<td>2000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clark A. Rouch</td>
<td>07/00</td>
<td>2000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
All Around You

Weatherford has always been driven by your needs.

Now, with the addition of Precision Energy Services we’re continuing to build a world of skills, services and technologies that revolve – and evolve – around you.

The result?
An expanded global network of 25,000 people, 730 service bases and 87 manufacturing facilities in 100 countries. This increased local knowledge and service is there to support you anywhere, anytime. From midday in the Middle East to midnight in the middle of nowhere.

And with greatly strengthened capabilities in the critical evaluation skills of directional drilling and wireline logging, we can do even more to improve the profitability and productivity of your wells.

To see how our sphere of services can work for you, visit www.weatherford.com or contact either your Weatherford or former Precision Energy Services representative.

Drilling | Evaluation | Completion | Production | Intervention
# KGS Bulletin:
## July—August 2010

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td></td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>18</td>
<td>19</td>
<td></td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
</tr>
<tr>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
</tr>
</tbody>
</table>

### August 2010

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **KIOGA Annual Meeting—Wichita**

www.kgslibrary.com