



Established 1925

KANSAS GEOLOGICAL SOCIETY

# BULLETIN

Volume 86 Number 2

March—April 2011

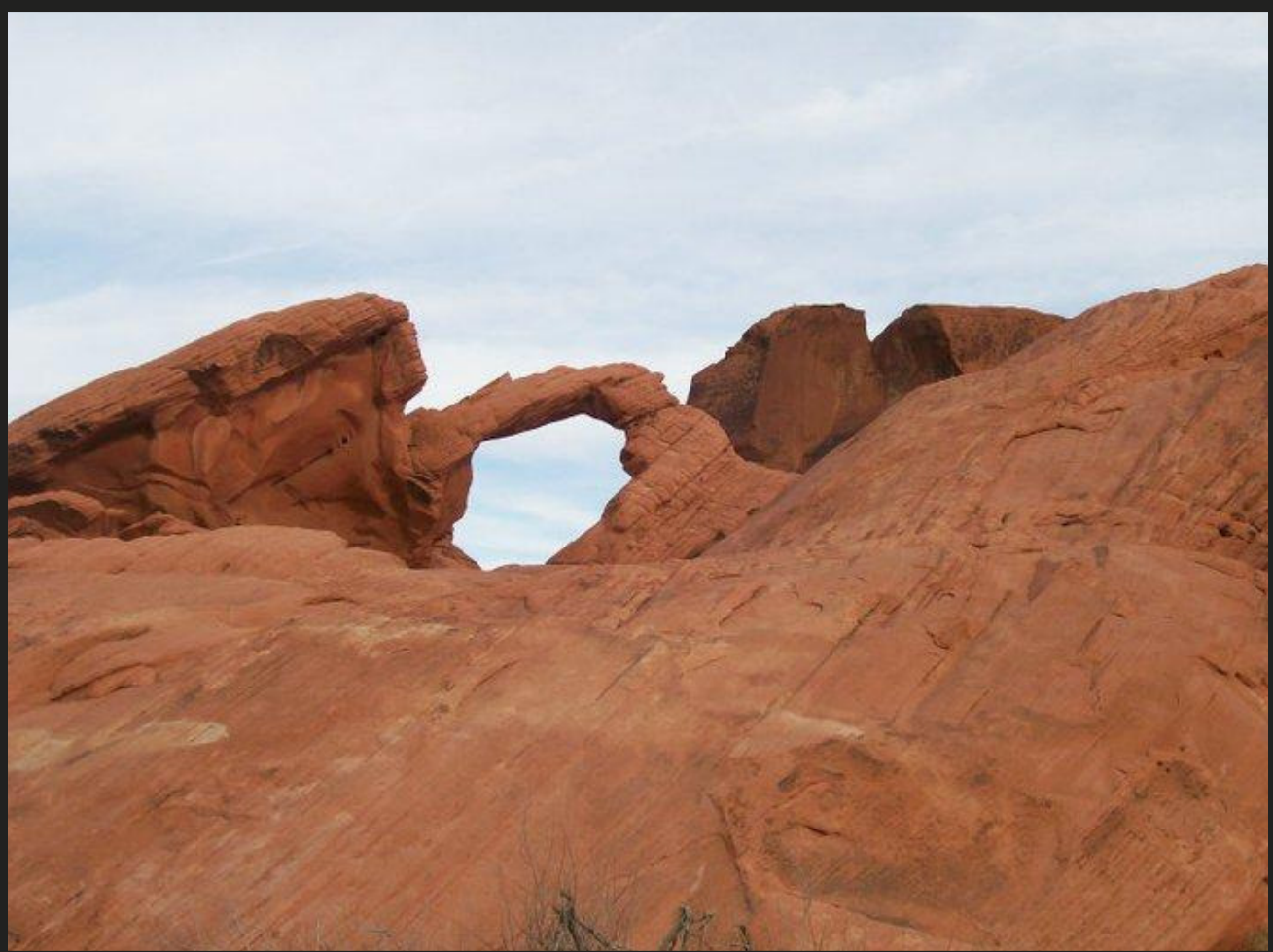
## IN THIS ISSUE

*Banquet Photos*  
*Page 18*

## GEO-SCENES

Devonian and Mississippian exposures

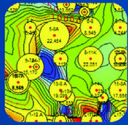
PG. 21



# Get Ahead of the Game



Directional Survey Plus



Production Data



Digital Well Logs



## With High Quality Well Data From TGS

Need an extra edge on the competition? TGS' high quality well data, comprehensive coverage and dedicated customer support can get you to the finish line.



### Directional Survey Plus

Beyond simple directional survey data capture, Directional Survey Plus data are thoroughly researched, reprocessed and standardized.



### US Production Data

TGS' nationwide production database features a visualization tool, leading industry exports and daily incremental updates.



### Complete Curve LAS

Over 500,000 LAS well logs are now available in North America. Over six million well logs available in 30+ countries worldwide.

Find out more at [www.tgsnopec.com/welldata](http://www.tgsnopec.com/welldata) or contact TGS Well Data at 888-LOG-LINE or [WellData@tgsnopec.com](mailto:WellData@tgsnopec.com)



Geophysical  
Products



Geological  
Products



Imaging  
Services



[www.tgsnopec.com](http://www.tgsnopec.com)

# Table of Contents

---

Features: Geo-scenes .....21  
    Banquet Photos .....18

## Departments & Columns:

KGS Tech Talks .....4  
President’s Letter .....7  
Advertiser’s Directory .....8  
From the Manager..... 9  
KGS Board Minutes .....16  
Professional Directory .....23 & 24  
Exploration Highlights ..... 26  
Kansas Geological Foundation .....28  
KGF Memorials.....30

## ON THE COVER:

Valley of Fire State Park was the first state park for the state of Nevada, dedicated in 1935. The Valley gets it’s name from the bright red sandstone formations, which were formed 150 million years ago. This particular picture is of Arch Rock, the only natural arch found within the park.

Photo taken by Marjorie Noel

---

## 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](mailto: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>

# SOCIETY Technical Meetings

## Spring 2011 Schedule

Mar. 8—KU Students: The Wetzel Fields, The Little Valley Field, & The Winter North Field.

Mar. 15—Dr. Lynn Watney— “Horizontal Wells in the Hunton Group—Unger Field”

Mar. 22—Brian Wilhite—“Evidence for early Mississippian forebulge tectonics in the Mid-Continent based on outcrop studies; implications and considerations for subsurface Mississippian exploration” by Brian Wilhite, Sal Mazzullo, Beau Morris, Darwin Boardman

Apr. 5—Charles Smith— “Unconventional Reservoirs Require Unconventional Solutions—Granite Wash & Shale Reservoirs”

Apr. 19—Dr. James Puckette’s Class from Oklahoma State University

Apr. 26—Dr. Lynn Watney, et al - “Basement Tests in Wellington Field”

May 3—Alan DeGood—TBA

May 17—Kevin Evans, “Pre-Mississippian Tectonism on the Southern Margin of the Ozark Dome”

May 24—Larry Richardson’s Wichita State Class

### *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

Doug V. Davis

### SECRETARY

Rocky Milford

### DIRECTORS

Ken Dean  
Rick Saenger  
Ryan Dixon

### PRESIDENT-ELECT

Kent Scribner

### TREASURER

Marjorie Noel

### ADVISORS

Don Beauchamp  
Alan DeGood

## COMMITTEE CHAIRMEN

---

### Advertising

Kent Scribner

### Advisory

Don Beauchamp  
Alan DeGood

### Annual Banquet

Bob Bayer

### Budget Committee

Marjorie Noel

### Bulletin

Sal Mazzullo

### Continuing Education

Robert Cowdery

### Distinguished Awards

Rick Saenger

### Directory

Larry Richardson

### Environmental

Kent Matson

### Field Trip

Larry Skelton

### Fishing Tournament

Randy Teter

### Future Plans

Ernie Morrison

### Golf

David Barker

### Historian

Larry Skelton

### Investment

Marjorie Noel

### Library

Roger Martin

### Membership

Ted Jochems

### Nomenclature

Larry Friend

### Picnic

John H. Morrison, III

### Public Relations

Marjorie Crane-Noel

### Shooting Tournament

Robert Cowdery

### Technical Program

Larry Richardson

### Ticket Sales

Robert Cowdery

Bill Shepherd

## A.A.P.G. DELEGATES

---

Ernie Morrison	Robert Cowdery	Doug Davis
2013	2012	2012

## BULLETIN STAFF

---

### EDITOR

Sal Mazzullo  
salvatore.mazzullo@wichita.edu (316) 978-7211

### ADVERTISING

Kent Scribner  
Stelbar Oil Corp. (316) 264-8378

### PROFILES/MEMORIALS

Robert D. Cowdery  
Consultant (316) 267-9030

### EXPLORATION HIGHLIGHTS

John H. Morrison, III  
Independent O&G (316) 263-8281

### STATE SURVEY

Rex Buchanan  
KS Geological Survey (785) 864-3965

### SOCIETY NEWS

KGS Library (316) 265-8676

### EDITOR EMERITUS

Wes Hansen (316) 863-7313

## K.G.S. LIBRARY

---

PHONE 316-265-8676 FAX 316-265-1013

email: [frontdesk@kgslibrary.com](mailto:frontdesk@kgslibrary.com) or

Web: [www.kgslibrary.com](http://www.kgslibrary.com)

### LIBRARY MANAGER

Rebecca Radford 265-8676

[manager@kgslibrary.com](mailto: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 2010, 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.

# TRILOBITE TESTING INC

Eleven Trucks Serving  
Kansas - Colorado - Texas  
Nebraska - Illinois

Slickline services using the same  
Alpine Electronic Pressure  
Guages as used on DST's

Back pressure testing (G1 & G2)

DST's

**1-800-728-5369**

**FAX: 1-785-625-5620**  
**trilobite @eaglecom.net**

### SHOPS LOCATED IN:

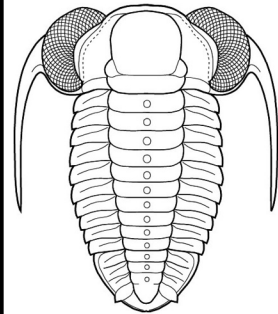
Hays, KS

Scott City, KS

Pratt, KS

Hugoton, KS

Clay City, IL



## ***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.**

## **THE LATEST IN OIL FINDING EQUIPMENT!!! IT WORKS!!!!**



If you see this man on the street.....go the other way.

***This is our latest in interesting tidbits from the oil field***

# President's Letter

---

Dear Members,

First, I would like to thank Bob Bayer for his work as the Chairman for the Annual Banquet. It was well attended and enjoyed by all. But his jokes were awful. (See photos from Banquet).

The chairman for the Fishing Tournament has decided to move the event to September, so as to have better weather conditions.

On Friday March 11<sup>th</sup> the WSU Geology Department in connection with the KGS is having a Career Day. This event is for geology students who want to become employed as Geo Techs to meet with potential employers. All Petroleum and Environmental companies are urged to attend. This event will be located in the Reagents Room 203 of the Ratigan Student Center from 8 AM to 1 PM. There will be assigned parking for this event.

Later this month or early in April we will try to get students from the University of Kansas, Kansas State, and other universities to do the same.

The Tulsa Geological Society is having a Spring Field Trip to SW Missouri, NW Arkansas, and NE Oklahoma to view the Mississippian outcrops of the region. The trip will be led by Sal Mazzullo and Brian Wilhite. This field trip will be April 1-3. Sign up information will be located in the library. This same field trip will also be occurring at the regional AAPG at Oklahoma City in October of this year.

The AAPG National Convention is April 9-13 in Houston, Texas this year. I hope to see as many members from our society there. Bob Cowdery, Ernie Morrison and I are the delegates representing the KGS.

Finally, I would like to thank the employees of the KGS Library for their hard work this past 2 months. The library is averaging between \$1,000 and \$1,500 in sales per day. Please keep buying our data.

Respectfully submitted,  
Douglas V. Davis



## GRADUATE EDUCATION for active professionals

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

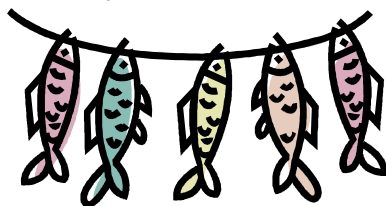
*With specializations in:*  
 Petroleum Geology  
 Groundwater  
 Exploration Geophysics  
 Environmental Geochemistry

**Information:**  
 KSU Continuing Education: [www.dce.ksu.edu](http://www.dce.ksu.edu)  
 KSU Geology Department: [www.ksu.edu/geology](http://www.ksu.edu/geology)  
 KSU Graduate School: [www.ksu.edu/grad](http://www.ksu.edu/grad)  
 or e-mail George Clark, interim dept. head: <[grc@ksu.edu](mailto:grc@ksu.edu)>



**For those of you who attend  
 the annual fishing tournament  
 it is being moved to the fall.**

**The scheduled date is September 16th.  
 Randy Teter is the chair**



## ADVERTISER'S DIRECTORY

	<i>page</i>
Allied Cementing Company, Inc	25
Duke Drilling	25
GeoCare Services AAPG	13
Kansas Geological Foundation	28
Kansas State University	8
Lockhart Geophysical	25
LogSleuth-MJ Systems	29
MBC Well logging	25
Murfin Drilling Company, Inc	25
Oneota Resources	11
PARAGON Geophysical Services, Inc	13
Professional Directory	23-24
Sunrise Oilfield Supply	25
TGS-NOPEC Geophysical Company	2
Tomcat Drilling	25
Trilobite Testing	6
Walters Digital Library	11&12
Weatherford	31
Well Enhancement Services, LLC	12

## ADVERTISER'S RATES: 2011

Full Page	B&W	Color
6 issues	\$2,000	\$2,500
3 issues	\$1,080	\$1,325
1 issue	\$480	\$525
<b>1/2 Page</b>		
6 issues	\$1,000	\$1,500
3 issues	\$540	\$825
1 issue	\$225	\$350
<b>1/4 Page</b>		
6 issues	\$600	\$900
3 issues	\$325	\$525
1 issue	\$150	\$250
<b>1/8 Page</b>		
6 issues	\$300	\$500
3 issues	\$175	\$325
1 issue	\$75	\$185
<b>Professional Ad (Business Card)</b>		
6 issues	\$90	\$180

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



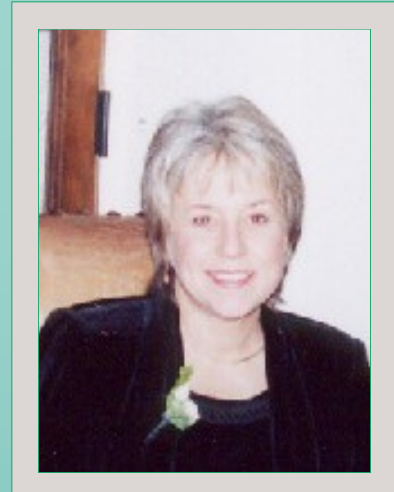
## From The Manager

Dear Members,

We are starting to get some of those early spring days that we all love and make us thankful we live in Kansas and not Minnesota!

Your library has been pretty busy these past few months and we are processing more and more new data all the time, getting it into our paper files and also added to the on-line Walters Digital Library. We hope that you will try out the digital library if you haven't already. As noted on page 17, you can log on as GUEST and see the database and the thumbnail views of images.

We had an opportunity to thank the two people who have written this new program, at our annual banquet. Kurt Look and Eileen Jones are pictured below receiving an award from Lynn Watney, awards chairman. We will continue to work with Kurt & Eileen to make improvements in this ever-evolving project.



Another project this year was the final publication of a new Oil & Gas Fields, Vol 6, titled *New Plays and Ways*. This one is printed in full color—see more information on page 27, following Exploration Highlights.

This spring, I am presenting a challenge to all of you to join the Kansas Geological Foundation or to renew with a stronger pledge of monetary support. The Foundation's membership is dropping and sadly, we are establishing more memorials than new members. This is a very important organization to our industry and your support is needed. Please see Debra FitzGerald's letter on page 15, in this issue.

Respectfully submitted,  
*Rebecca Radford*  
Manager



Let Us Print Your *Geo Reports*  
And Save Your Time For Finding More Oil & Gas  
Top Quality Color Printing For Our Membership  
Email your files to: [tammy@kgslibrary.com](mailto:tammy@kgslibrary.com)

The Kansas Geological Society & Library



*The*  
2011 AAPG MID-CONTINENT  
SECTION MEETING

Oklahoma City, Oklahoma  
Saturday through Tuesday, October 1<sup>st</sup> - 4<sup>th</sup> 2011

[www.2011AAPGMCSSectionMeeting.org](http://www.2011AAPGMCSSectionMeeting.org)

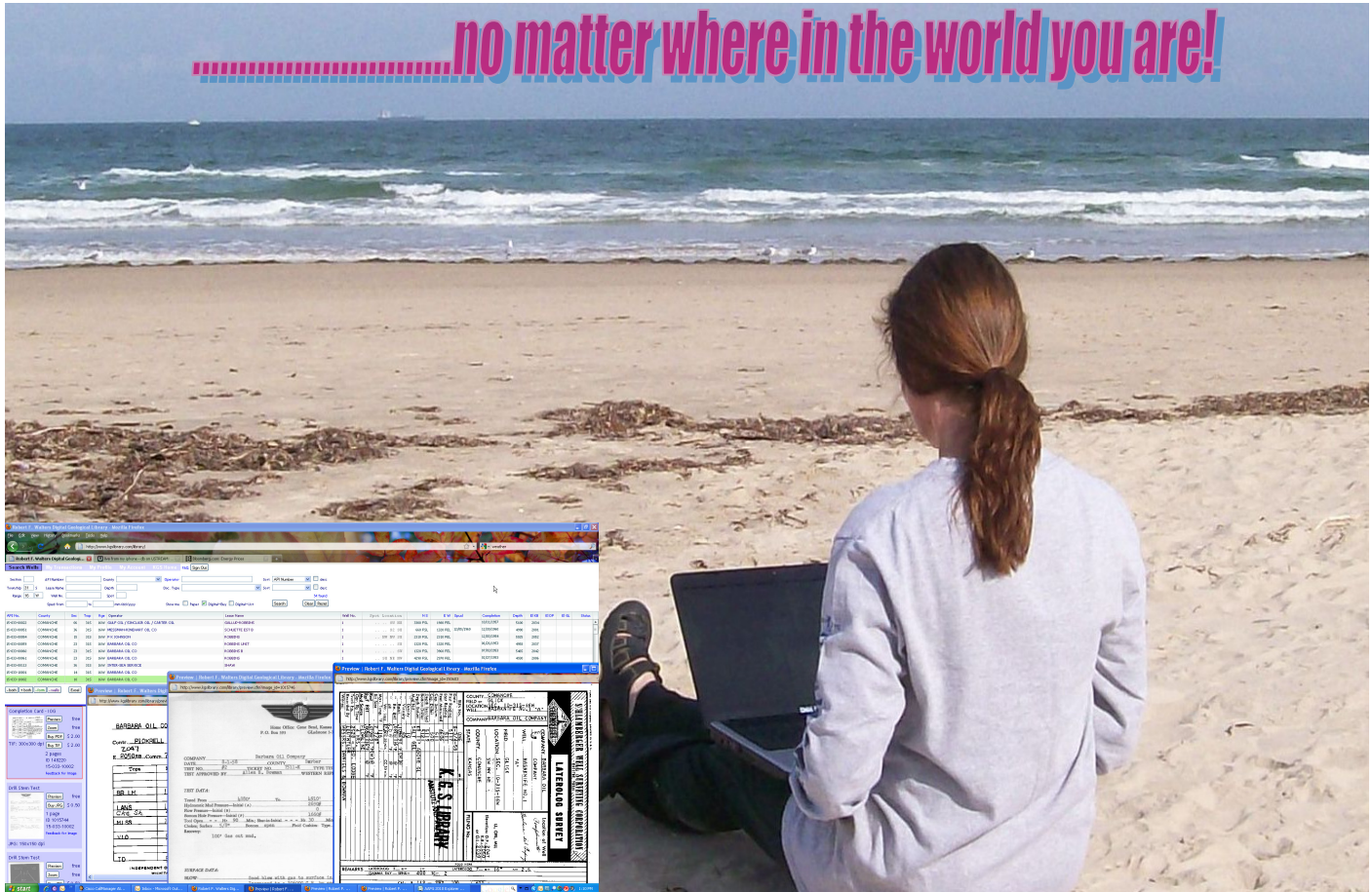
*Plan to attend the 2011  
AAPG Mid-Continent  
Section Meeting*

*Jointly Hosted By The*  
Oklahoma City  
Geological Society  
And The  
Oklahoma City  
Geological Foundation

# Robert F. Walters Digital Library

The most complete source for Kansas data at your fingertips

.....no matter where in the world you are!



[www.kgslibrary.com](http://www.kgslibrary.com)

316-265-8676

Check It Out! Log in as a guest - username = guest, password = guest



Oneonta Resources, LLC

Michael Bradley  
518 17th Street, Ste 1000  
Denver, Colorado 80202

Kansas 3-D Projects

Phone: 970-222-7530  
Fax: 303-374-7912  
lonetree9@earthlink.net



## 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”*

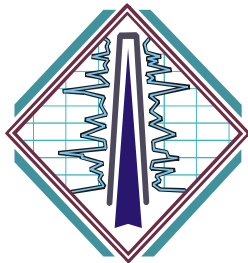
### Please Contact Us:

Phone: (785) 625-5155

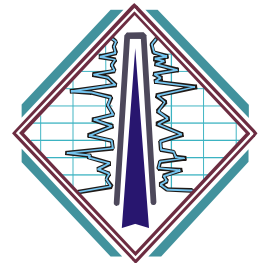
Fax: (785) 625-4151

Field: (785) 259-4638

wesofhays@hotmail.com  
Box 87, Schoenchen, KS 67667



## Robert F. Walters Digital Library View Millions of Documents!

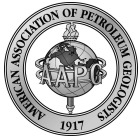


[www.kgslibrary.com](http://www.kgslibrary.com)

### Membership Details

- ◆ If you are a member 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 \$2000.00 /yr.
  - ◆ You can now log-in to see what data we have:
    - ◆ username = guest, password = guest

**Call 316-265-8676 or toll free 877-265-7300**



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](mailto:geocarebenefits@agia.com)  
[www.geocarebenefits.com](http://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.

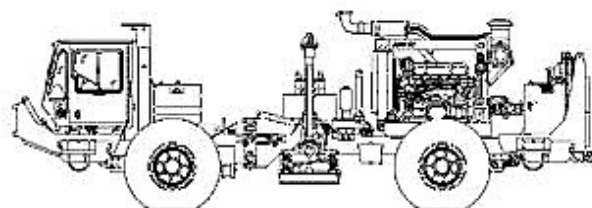
See the web for  
titles & descriptions  
[www.kgfoundation.org](http://www.kgfoundation.org)

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

## KIOGA 19th Annual Mid-Year Meeting

**April 21-22, 2011**

**Russell, Kansas**



~The TOP CHOICE for 3D SEISMIC~

John H Beury III ~ Pres John Aguilar ~ Op. Mgr.

**PHONE (316) 636 - 5552 FAX (316) 636 - 5572**

3500 N. Rock Rd., Bldg 800, Suite B  
Wichita, KS 67226

[paragon@paragongeo.com](mailto:paragon@paragongeo.com)

## ON COMMENTS TO PHIL KNIGHTON'S TALK, FEB. 15, 2011, ON URANIUM RESOURCES

The comments of the gentleman at my talk spurred me to look again into the internet and there is a good article that appeared in Scientific American magazine (see cite below). His points are well taken and my focus on uranium resources per se, didn't force me to look into new technology or designs of reactors. My bad, as the kids say today.

I did find this: Scientific American article, Jan. 6, 2009, "Next Generation of Nuclear Power" notes liquid sodium reactor designs will use less uranium. These are not expected to be available until 2020. It is on the drawing boards, but problems with the so called fourth generation designs (GEN IV) are still the use of liquid sodium as a coolant and heat transfer agent to water to make steam. This is a real difficulty since sodium reacts explosively with water. Also the design is more expensive to build. No quantitative data was given to support the statement that this type of reactor uses less uranium. A more detailed explanation given in blog attachments also list a Thorium/uranium reactor (GEN IV) design which is cooled by liquid salt. Interesting... These reactors are still on the drawing boards I think. China is building GEN II units and GEN III units are available only recently. I don't see reference to Gen III being much more efficient, rather more safety factors built in and less complicated to build.

There is still a fundamental problem that is not addressed by a new generation of reactors. Any of the new generation of reactors doesn't solve the problem of the shortfall in world uranium supplies for the currently existing reactors. I still contend we are woefully short of uranium supplies for the current generation worldwide, and particularly the USA is in trouble.

<http://www.scientificamerican.com/article.cfm?id=next-generation-nuclear&page=4>

Another discussion in the Wall Street Journal, Sept. 8, 2009, discusses up to Gen III reactors are available now. <http://online.wsj.com/article/SB10001424052970204409904574350342705855178.html>

I would be most appreciative of any information anyone can provide on lower uranium consumption per kWe output of any new designed reactors.

Phil Knighton  
pknighton@cox.net



To: KGS/KGF  
From: Fred James  
Re: Kansas Education Commission  
February 16, 2011

Last Year, I was appointed to be a member of the Kansas Education Commission, which body was charged with examining the K-12 public school system and making recommendations as to its improvement. The Commission's final report was made in December, following final committee meetings (see enclosure) and it is presently under consideration by the State School Board. The document is online.

Dr. Walt Chappell is our elected member of the State School Board, and met with the Kansas Geological Foundation Board of Directors on February 10. With the KGF Board's support, my role in the Commission's work was to emphasize the importance of industry input into classroom and field trips to motivate students and provide information as to industry practices and career possibilities. The Commission's final report included this recommendation. Bob Cowdery's speakers' bureau is our ideal vehicle for this effort, and if the State School Board will endorse and push for this program, we can materially aid the encouragement of potential young geoscientists in Kansas' public schools. Dr. Chappell is very much in favor of this effort on the part of all professional disciplines, is pleased we are available, and will urge it upon the State School Board.

The Kansas Geological Foundation Board urges all geoscientists, to join us in this effort to provide young professionals for the future, presently lacking nationwide, especially in Kansas. Please be a member of KGF and help us.

Respectfully, Fred James

---

# NEWS FROM THE KANSAS GEOLOGICAL FOUNDATION

---



Dear Society members and supporters,

The Kansas Geological Foundation is a non-profit organization founded with the goals of

- Promoting geology and earth sciences
- Preserving geological records
- Establishing memorials, endowments, and scholarships
- Supporting field trips and seminars
- Providing financial aid and grants to students and educators in the field of geology and earth sciences

Since the beginning of 2011 the Kansas Geological Foundation has awarded \$7000.00 in scholarships to students at Wichita State University, Kansas State University, University of Kansas, and Emporia State University. This money partly came from the Knighton Scholarship, the Robert Dilts Scholarship, and the James Dilts Scholarship. Those scholarships have been established through and for the Foundation.

Additionally the KGF approved a Grant Request for \$2,000.00 to Kansas State University graduate student Drew Evans. His thesis is on the Spivey-Grabs Field and the finished abstract will be available for publication in the KGS Bulletin.

Lastly the Foundation granted the Teacher of the Year award to Mr. Robert McKinney (pictured below.) Mr. McKinney teaches earth science at Emporia High School and is a member of KESTA (Kansas Earth Science Teachers Association.) The award was given to him at the KGS Annual Banquet along with a check for \$1500.00.

As Membership Chair for the Foundation this year I will continue with these updates and include an integration report in the next bulletin along with a list of the Foundation members. Because of our members generosity we are able to move forward with our goals.

Thank you,

Debra FitzGerald  
Membership Chairman, Kansas Geological Foundation

Beth A. Isern  
President, Kansas Geological Foundation



---

# Kansas Geological Society Board Minutes

---

**January 11, 2011** Mr. Doug Davis called the meeting to order at 11:34 A.M.

## FINANCIAL REPORT/MANAGERS REPORT

- A. **Treasurer's Report-** Mrs. Noel presented us with the Treasurer's report for December 2010. The earliest a CD will be maturing is March 24, 2011 at Andover State Bank. Mrs. Radford noted there is a difference between the interest earning on the Treasures Report and on the Managers Report. The Treasures Report has Interest Income for December as \$524.51 and for the Year as \$6,293.35. The Managers Report has Interest Income for December as \$1,666.93 and for the Year as \$8,341.24. Mrs. Radford suggests the difference may be from when the CD interest is compounded verses the monthly accruing of interest. Mrs. Radford will investigate the discrepancies. *Mr. Saenger moved to accept the Treasurer's report "as to be corrected". Mr. Dean seconded the motion and the motion passed unanimously.*
- B. **Manager's Report-** Mrs. Radford presented the Manager's Report for December 2010. Monthly income was \$64,932.79 and expenses were \$42,665.96, making the paper library profit \$22,266.83 for the month. When the library net income is combined with the WDL net income of \$8,629.77, the net income for the month was \$30,896.60. Mrs. Radford noted that income in the month of December was the best December in 10 years, mostly from strong data sales. Mrs. Radford noted the WDL 2010 Kansas Geological Survey programming contract's final quarterly invoice has not been received but when paid, will be entered under the December 2010 booking. The WDL 2011 contract with the Kansas Geological Survey is for hosting and programming but will be substantially less (\$50,817) because most of the programming has been accomplished. The Society has 727 members, the Library has 277 members and WDL has 182 members (one member added in January 2011).

## NEW BUSINESS

- A. **Depth Registered Log Points-** Mrs. Radford reported that a member that has purchased a large quantity of raster logs from the Library would like to sell the depth registrations he has done on the logs to the Library. The depths registrations would be of value if they can be imported into other geological programs.
- B. **Moving Tech-Talks to Bank Auditorium-** Some of the Technical Programs have been overcrowded in the Law Library facility and the Bank of America auditorium would better for a large attendance. Soliciting sponsors for the programs was suggested as a means to pay for the auditorium rental.
- C. **AAPG Delegates-** KGS should provide three delegates for upcoming AAPG conventions.

**ADJOURNMENT-** *Mr. Saenger moved to adjourn the meeting at 12:51 p.m. and the motion passed unanimously.*

Respectfully submitted, Robert Milford, Secretary

**February 16, 2011** Mr. Doug Davis called the meeting to order at 11:35 a.m.

## FINANCIAL REPORT/MANAGERS REPORT

- A. **Treasurer's Report-** Mrs. Noel presented us with the Treasurer's report for January 2011. The earliest a CD will be maturing is March 24, 2011 at Andover State Bank. Mrs. Noel said the January 2011 Treasures Report is incomplete because interest amounts cannot be computed until we receive all of the year end statements from the banks. Mrs. Radford noted there was a decrease in value of the Securities America Money Market (Treasury Bills) account and she is investigating the matter. The Treasures Report has Interest Income for January 2011 as \$791.97 and for the Year 2010 (estimate) as \$5,201.66. *Mr. Dean moved to accept the Treasurer's report as presented. Mr. Dixon seconded the motion and the motion passed unanimously.*
- B. **Manager's Report-** Mrs. Radford presented the Manager's Report for January 2011. The paper library and WDL are now combined into one report. Monthly income was \$67,083.12 and expenses were \$48,074.82, making the profit \$19,008.30 for the month. Mrs. Radford noted the annual payment of \$13,122.48 to the Kansas Geological Foundation for the purchase of the WDL is being prorated monthly on the report. Mrs. Radford stated the WDL 2010 Kansas Geological Survey programming contract's final quarterly invoice was paid under the December 2010 booking. Mrs. Radford stated that January's income was very good.

## NEW BUSINESS

- A. **AAPG Delegates-** *Mr. Scribner motioned for Mr. Ernie Morrison to fill the position of the vacant AAPG Delegate 3 year term. Mrs. Noel seconded the motion and the motion passed unanimously.*
- B. **KGS Supporting Members-** *Mrs. Noel motioned to accept the applications for Supporting Memberships. Mr. Scribner seconded the motion and the motion passed unanimously.*
- C. **Change Board Meeting Dates for March & April-** The March meeting is moved to March 9<sup>th</sup> and the April meeting is moved to April 14<sup>th</sup>.
- D. **Career Day for College Students-** Mr. Davis is organizing an event for college students to meet with people in the oil industry for job or internship opportunities. One event is tentatively planned at WSU in the 2<sup>nd</sup> or 3<sup>rd</sup> week of March. Mr. Davis plans to have another event that KU and KSU students can attend.
- E. **New Equipment for Library-** Mrs. Radford is requesting the Library Committee assess the need for a new wide format scanner and a plotter. The current scanner is over 9 years old and is only capable of B&W images up to 36" wide. Newer scanners are usually capable of color and 42" width. A new Neuralog scanner would enable faster scanning of logs and strip logs. There has also been request from members for the Library to have a plotter that can print a member's plot files. **Committee Review-** Mr. Davis is talking to the various committee members to determine who will be the Committee Chairman and if the committee should be retained.
- F. **KGS Advertisement in the KIOGA Newsletter-** Mrs. Radford will contact KIOGA about the KGS placing an advertisement in their newsletter and see if they would want to advertise in the KGS Bulletin.
- G. **AAPG 2013 Mid-Continent Meeting-** The KGS needs to put in a request to the AAPG to host the 2013 Mid-Continent Meeting.

**ADJOURNMENT-** *Mrs. Noel moved to adjourn the meeting at 1:28 p.m. and the motion passed unanimously.*

Respectfully submitted, Robert Milford, Secretary



**You Can Now Log Into the Walters Digital Library without belonging**

**Use guest / guest for username & password**

**This will allow you to see what's in our database**

**You won't be able to download of course but you can see if we have what you are looking for.**

**You might find this helpful when placing an order with the KGS Paper Library.**

[www.kgslibrary.com](http://www.kgslibrary.com)

**Kansas Geological Society & Library** | Home - Mozilla Firefox

http://www.kgslibrary.com/index.cfm

Sign in to Robert F. Walters Digital Geological Library

guest guest Sign In

User Name Password

**Kansas Geological Society & Library**

Founded in 1923

Home About Officers Bulletins Events Tech Talks KCC Boxes & Logs Membership Links Contact

**Library**

The Kansas Geological Society Library has the most complete collection of oil and gas well data for the State of Kansas and surrounding areas. Donated by industry since 1923.

**Robert F. Walters Digital Geological Library**

Version 1.1

Stitched TIFF images are now legible in Petra

**FYI**

**Are you aware??????**

**We keep a list of all the new data coming from the KCC to our Paper Library in an Excel Spreadsheet.**

**On the Home Page of [www.kgslibrary.com](http://www.kgslibrary.com)**

**You will find a link "KCC Boxes & Logs"**

**If you click on this link, you will be able to download the list of new well data received.**

**If you do not find it in the file cabinets, please ask staff and they will assist you in locating the new data in our boxes.**

**Some of this data has not been entered yet, and we must keep track of it so .....**

**PLEASE — ALWAYS ASK STAFF TO HELP YOU.**



Bob Bayer, Our Emcee Entertaining us!



WSU Students helping out



Past Presidents in attendance



Receiving 50 Year member pins  
Mrs. Richard Strong , Eldon Schierling, Bill Ree



WSU Students



**The Kansas Geological Society  
Thanks The Following For Their Support Of The Banquet**

American Energies  
Don Beauchamp  
Chuck Brewer  
Jean Darmstetter  
Doug V. Davis  
Alan DeGood  
Edmiston Oil  
Fred James III  
Richard Jordan  
Lario Oil & Gas  
Roger Martin  
Walter H. Martz  
Roger McCoy  
Mike Mitchell  
Ernie & Pat Morrison  
Mull Drilling  
Innes Phillips  
A. Scott Ritchie, Sr.  
Kirk Rundle  
Bill Shepherd  
Val Energy

These donations are used in part to pay for geology students  
to attend the banquet

**Thank You For Your Continued Support !!**



**Honorary Members at the annual banquet**

# GEO-SCENES



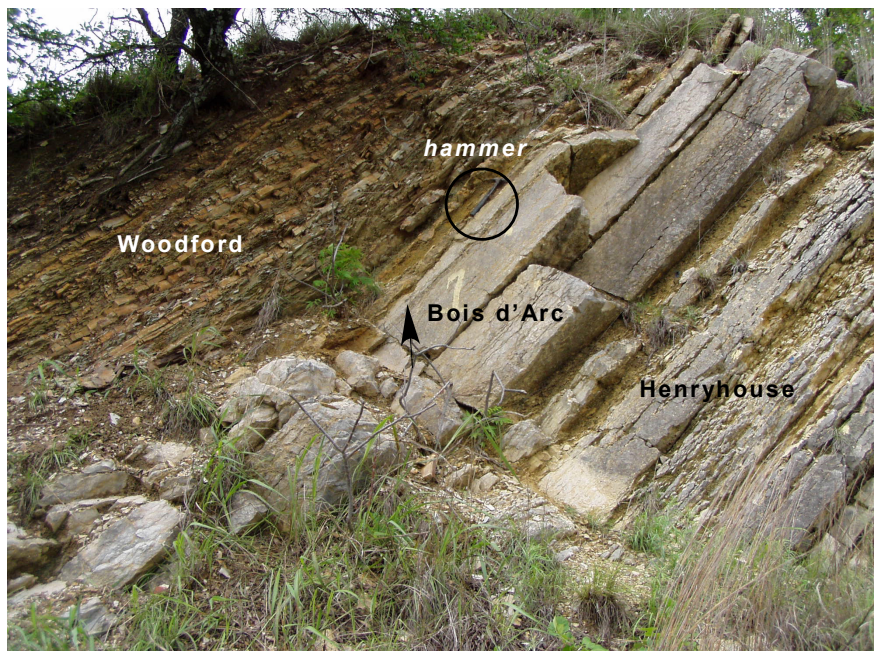
## Some Devonian and Mississippian Exposures in the Arbuckle Mountains, Oklahoma

Fantastic exposures of Precambrian to Pennsylvanian igneous and sedimentary rocks are present in the Arbuckle Mountains in east-central Oklahoma. This area has traditionally been the site of countless field trips over the years by professional and student geologists alike, and many of you reading this contribution probably have stomped around this field area over the years.

Figure 1 is an exposure of the Woodford Formation, just west of the Arbuckle Mountains proper, with extremely large, nearly spherical phosphate concretions. Many of us who have examined the Upper Devonian to Kinderhookian Woodford in roadcuts along I-35 in the Arbuckle Mountains have seen the dark chert and typical golf ball-size phosphate concretions in those rocks, but what is illustrated in Figure 1 is an example of phosphate nodules gone crazy – super-sized nodules on steroids! Phosphate and chert nodules are not present in what is referred to as the Woodford or Chattanooga Formation in northeastern Oklahoma and adjoining northwestern Arkansas and southwestern Missouri. The Woodford/Chattanooga present in the subsurface of Kansas also does not contain phosphate nodules or chert. These rocks are solely of Upper Devonian age rather than of Devonian to Kinderhookian age as in the Arbuckle Mountains. The absence of Kinderhookian age Woodford rocks to the north-northeast is the result of erosion in post- middle Kinderhookian but pre-Osagean time.



Figure 2 is a photo of the Silurian-Devonian Henryhouse and Bois d’Arc formations at a roadcut exposure along I-35 in the Arbuckle Mountains. The Bois d’Arc is only 4 ft thick here (see circled hammer for scale), and it is in unconformable contact with the overlying Woodford. There likewise is an unconformity between the Bois d’Arc and Henryhouse formations as the Silurian Haragan Formation is not present here. The thin layer at the top of the Bois d’Arc (arrow) may be a soilstone crust, which is a weathered surface common along unconformity surfaces in carbonate rocks. Similar soilstone crusts have been described from exposed Pleistocene rocks in the Bahamas, Belize, and South Florida as well as from many older rocks carbonate rocks around the world.

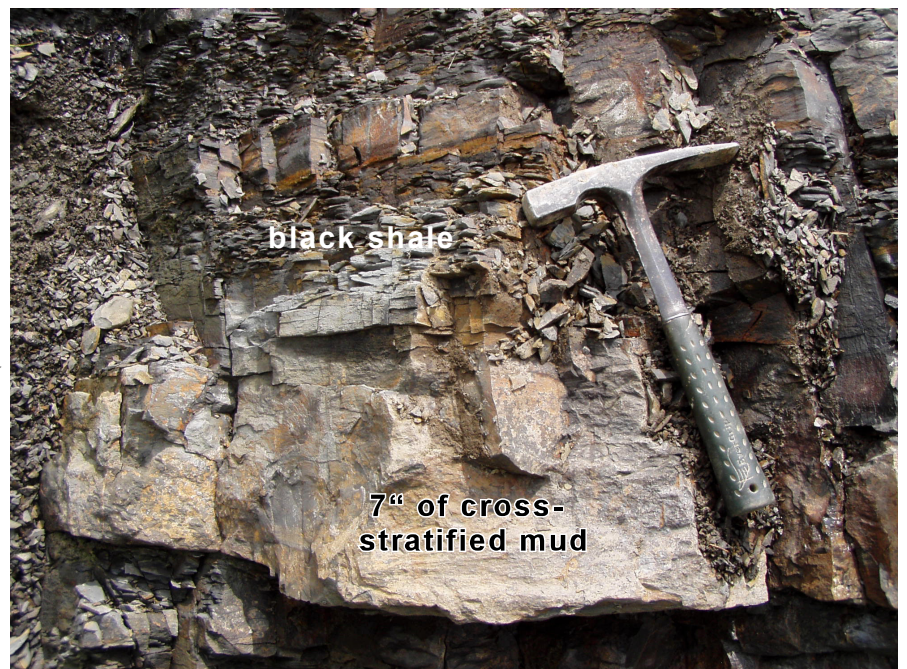


Continued on page 22

Figure 3 is a roadcut exposure of the Mississippian (Osagean?) Sycamore Limestone along I-35 in the Arbuckle Mountains. These rocks are thin to medium bedded, argillaceous lime mudstones with thin interbeds of dark gray and black shale. They are inferred to be relatively deep-water slope and possible toe-of-slope deposits that are the down-dip facies correlatives of highly eroded, shallow-water limestones to the south (likely the Chapel Limestone shelf in north Texas according to Dr. Darwin Boardman, 2009).



Figure 4 shows a relatively thin section within the lower part of the Sycamore that grades upward from cross-stratified lime mudstone to shale. This genetic package of rocks comprises part of a Bouma sequence, which is some of the evidence identified to formulate a relatively deep-water origin of these rocks.



submitted by Sal Mazzullo

# PROFESSIONAL DIRECTORY

**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

**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



**GeoCertified, LLC**  
 Professional Geological Services  
 Hydrocarbon Detectors and Geologist Onsite 24/7

Phone: (913) 441-2311 • Cell: (913) 544-7527  
 www.geocertified.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

Tel.: (972) 712-9036  
 Fax: (972) 712-0258  
 Cell: (214) 223-1784

**LANG J. FUQUA**  
 Certified Petroleum Geologist

4201 Tanglewood Ln.  
 Frisco, Texas 75035

**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. #109833-4

PROSPECT EVALUATION • PROSPECT GENERATION  
 WELLSITE SUPERVISION • EXPERT TESTIMONY • OPERATIONS  
 PROPERTY EVALUATION • RESERVOIR STUDIES  
 DRLG./COMP. CONSULTATION

Suite 415 Office: (316) 262-5418  
 100 S. Main Fax: (316) 264-1328  
 Wichita, KS 67202 Cell: (316) 250-5941

**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



Paul Gunzelman  
 President/Geologist

Wichita, Kansas 316.634.6026  
 email p.gun@sbcglobal.net



**KEVIN L. KESSLER**  
 INDEPENDENT/CONSULTING PETROLEUM GEOLOGIST

WELLSITE SUPERVISION • GEOLOGIC RESEARCH  
 OIL & GAS PROSPECTS  
 KANSAS & EASTERN COLORADO

MAILING ADDRESS PHONE  
 1199 N. PONDEROSA RD. RES.: (316) 522-7338  
 BELLE PLAINE, KS 67013 MOBILE: (316) 706-6636  
 EMAIL: KKESSLER1199@AOL.COM

**ROBERT J. GUTRU**  
**Geologist**

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

**KGJ ENTERPRISES**

Contract Oil & Gas Accounting &  
 Office Management

Kathryn G. James, MBA (316) 775-0954  
 4278 SW 100th ST. (316) 250-5989  
 Augusta, KS 67010 kgjames@onemain.com

**MELLAND ENGINEERING, INC.**  
*Petroleum Engineering & Geological Consulting*

**James E. Melland, P.E., P.G.**  
 President  
 Office: (620) 241-4621 Fax: (620) 241-2621  
 jamesm@mellandengineering.com  
 www.mellandengineering.com

P.O. Box 841, McPherson, KS 67460

**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: [johnroutree@bratco-operating.com](mailto:johnroutree@bratco-operating.com)

**PLAINSMEN LAND LLC**

Cash available for lease acquisition  
Supporting Oil & Gas Prospects

Dan Earl Duggan

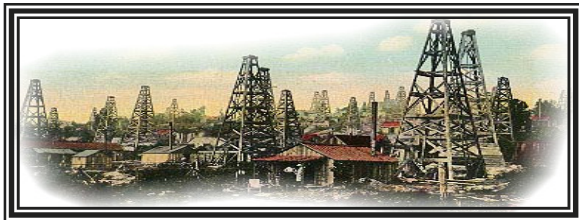
817.347.9300

[danearl@dxwells.com](mailto:danearl@dxwells.com)

Steve Meese

405.820.2442

[smeese3105@yahoo.com](mailto:smeese3105@yahoo.com)



**NEW PUBLICATION**

**Kansas Oil & Gas Fields, Vol. VI  
New Plays and Ways**

Now available  
Printed in full color

**\$40.00**

Call or email to order

**316-265-8676**  
**[manager@kgslibrary.com](mailto:manager@kgslibrary.com)**

*Spring into action  
and join the*

**Kansas  
Geological  
Foundation**

*Call 316-265-8676*

*Or send checks to:  
Kansas Geological Foundation  
212 N. Market, Ste. 100  
Wichita, KS 67202*

**Free To Good Home (or office)**

Geophysical Journals  
AAPG Bulletins  
Journal of Sedimentary Petrology  
Shale Shakers  
GSA Bulletins

**The Following Are For Sale**

The **Kansas Geological Foundation** is offering electric logs on microfiche for sale. This data is from 9 western states. The microfiche will be sold as is, in bulk, by state (no cherry picking). Prices are proportionate to the number of fiche available.

**Prices are firm, you haul or pay shipping**

Utah (~20,000 logs) - \$200.00

Colorado—\$25.00

S. Dakota—\$50.00

New Mexico—\$50.00

Idaho—\$25.00

Arizona—\$25.00

Oklahoma—\$25.00



WESTERN KANSAS  
SOUTHERN NEBRASKA



EASTERN COLORADO  
OKLAHOMA & TEXAS PANHANDLES

**10 Drilling Rigs**

**10 Well Service Rigs & Roustabout Services**

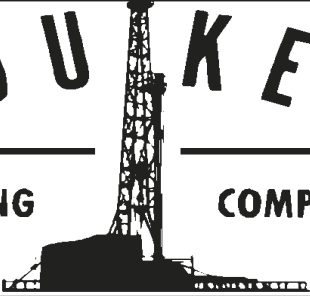
For contract information, please contact:  
Blaine Miller / Drilling Department  
316-858-8607 (Direct) or 316-267-3241

For contract information, please contact:  
Alan Hays, Well Service Sprvsr.  
785-421-2103 or 785-567-8739 (cell)

250 N. Water #300—Wichita, KS 67202

East Highway 24—Hill City, KS 67642

**DUKE**



**DRILLING COMPANY**

---

**ROTARY DRILLING CONTRACTOR**

620 Hubbard PO Box 823  
Great Bend, KS 67530  
Phone 620-793-8366

100 S. Main, Ste. 410  
Wichita, KS 67202  
Phone 316-267-1331  
Fax 316-267-5180



**Tomcat Drilling**

3 Rotary Rigs - Rotary Drilling Contractor  
Southwest Kansas • Oklahoma & Texas Panhandles

Tim Sanders 316-262-8554 phone  
316-259-1652 Cell  
tjsanders@tomcat.kscoxmail.com

100 S. Main, Suite 508  
Wichita, KS 67202

Great Bend (620) 793-5861      Ness City (785) 798-3843      Medicine Lodge (620) 886-5926



Acidizing Available at Medicine Lodge District

Russell (785) 483-2627      Oakley (785) 672-3452

**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*

**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



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

**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  
Mob: 316-786-4255

**New Office**  
Hugoton, KS 620-428-6604



(1) **BEREXCO, Inc.**, Wichita (KS), is producing an unknown amount of crude oil from the Mississippian formation at its Sheila No. 1 well, spotted in the SW/4 of section 17- T23s- R21W, in **Hodgeman** County. The new unnamed pool opener discovered reserves over three-quarters mile east of known Marmaton oil production in the Krupp field. Closest Mississippian production in the area lies over two and one half miles away. Operator used BEREDCO tools to bottom the well at a total depth of 4,710 feet. Field area is located five and one half miles southeast of Hanston, Kansas.

(2) **Rupe Oil Company**, Wichita (KS), is currently pump testing oil shows from perforations in the Misener Sand and Mississippian Chert formations at their No. 1 Rosenhagen, located in the northeast corner of section 20- T29s- R6W in **Kingman** County. The wildcat well is testing for commercial production at site over three-quarters mile northeast of the multipay Spivey-Grabs-Basil oil and gas field. The well was drilled to a total depth of 4,635 feet by Duke Drilling tools. Misener zone was perforated from 4,551 to 4,555 feet and the Chert zone was perforated from 4,161 to 4,164 feet. Well site lies almost six and one-quarter miles northeast of Rago, Kansas.

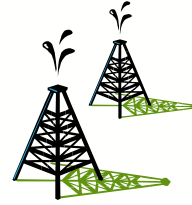
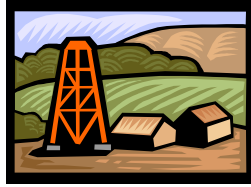
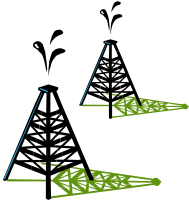
(3) **American Warrior**, Garden City (KS), is producing oil and gas from the Mississippian formation at the King No. 1-4 wildcat well in **Hodgeman** County. The new find is situated in the NE/4 of section 4- T23s- R24W, about one and one-quarter miles northwest of nearest production in the Jetmore South field. The Jetmore South field also produces oil from the Mississippian formation. Daily production rate on the King lease is unknown. Rotary total depth was obtained at 4,725 feet. The new field is located approximately three miles west of the town of Jetmore. It has not been named.

(4) **EOG Resources**, Oklahoma City (OK), is flowing an unknown volume of natural gas at the Jean No. 27-1. The 6,650 foot deep wildcat well was drilled over two miles east of the Gentzler Southwest (Morrow) gas field in **Stevens** County. No completion information has been released. New discovery was made in the SE/4 of section 27- T33s- R38W, about four and one-half miles southwest of Hugoton, Kansas. The Mississippian formation was shown as primary objective when the drilling permit was filed.

(5) **Shakespeare Oil Company**, Salem (IL), is pump testing oil shows being recovered from an undisclosed formation at the Church of GOD No. 1-27, located in the NE/4 of section 27- T16s - R34W in **Scott** County. The remote wildcat well establishes a new oil field over ten miles from the Christy Canyon (Cherokee) oil field. Operator drilled the well to a total depth of 4,876 feet utilizing H. D. Drilling tools. The new field has not been named. The Lansing-Kansas City, Marmaton and Cherokee zones were all designated as primary zones of interest for exploration. The new field lies about ten miles north of Modoc, Kansas.

(6) **Eagle Creek Corporation**, Wichita (KS), has established a new unnamed oil field in **Butler** County with the successful completion of its Harry Lewis No. 1-6. The wildcat well was drilled 1,980 feet from the south line and 7,260 feet from the east line of irregular section 6- T28s - R8E, approximately three and one-half miles southwest of Beaumont, Kansas. Production zone has not been released, though the primary zones of interest were Lansing-Kansas City, Mississippian and Arbuckle formations. The well found oil deposits one and one-half miles east of producing wells in the Brandt-Sensenbaugh (Mississippian) oil field.

(7) **Samuel Gary Jr & Associates**, Denver (CO), has a new oil discovery in **Ellis** County at their No. 1-1 Schumacher-Dreiling well, located in approximately the center of the W/2 of section 1- T15s- R17W. The well targeted the Arbuckle formation when drilled to a total depth of 3,610 feet by VAL Energy tools. However, well site is located two miles southwest of Lansing-Kansas City oil production in the Victoria Township field. Exact producing zone and volume has not been released. The unnamed field is situated four and one-half miles north of Pfeifer, Kansas.



## **NEW KANSAS GEOLOGICAL SOCIETY PUBLICATION**

### **New Plays and Ways Kansas Oil & Gas Fields, Vol. VI**

**In cooperation with Kansas Geological Survey  
And compiled by Dan Merriam**

**This volume covers 11 oil & gas field studies with emphasis on new techniques and significant fields in Kansas.**

**This volume is printed in full color—Price: \$40.00 + Postage**

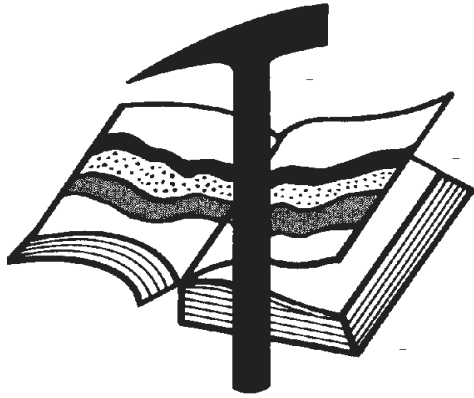
#### **New Plays**

- ◆ Looking For New Oil in Old Places: the Nemaha Overthrust Belt, by Lee C. Gerhard
- ◆ Hugoton Revisited: A new Look at an Old Field, by Martin K. Dubois
- ◆ Niobrara Chalk Gas Fields Play in Northwestern Kansas, by K. David Newell and W. Lynn Watney
- ◆ Kansas Coalbed Methane Play, by K. David Newell and Rolland J. Yoakum
- ◆ Cherokee Sand Discoveries in the Butterfield Trail, Maddie, Karis, Karis North, Witthuhn Northwest and Butterfield Fields in Eastern Trego County, by Beth.A. Isern and Larry Friend

#### **New Ways (Field Studies)**

- ◆ Old oil and new gas production at the School Creek North Field in Cowley County, Kansas by S.J. Mazzulo
- ◆ Slick-Carson Oil Field, Cowley County, Kansas, by Dan Merriam
- ◆ A New Look at the Davis Ranch and Davis Ranch Northeast oil fields, by Kyle E. Gorynski & Anthony W. Walton
- ◆ Herd Viola Pool Trend Comanche County Kansas, by Larry J. Richardson
- ◆ A History of the Fairport Field in Russell County Kansas, 120 Mile Step-Out, by Ernie Morrison
- ◆ Sigle North oil field in Osborne County, by Mike Dealy

**Call to order: 316-265-8676  
Or email: [manager@kgslibrary.com](mailto:manager@kgslibrary.com)**



# Kansas Geological Foundation

Web Site: [www.kgfoundation.org](http://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 Janice Bright at the KGS Library, 265-8676. This service is free to the public.

### **DVD/Videotape Library**

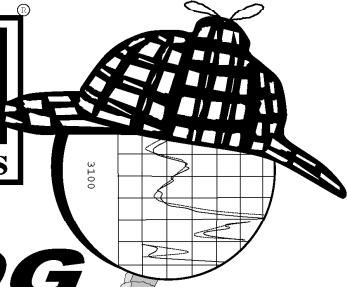
The KGF maintains a DVD & videotape library focused primarily on the various fields of earth science. These tapes may be checked out without charge by the public. To obtain a list of tapes, please contact the KGS Library, 212 N. Market, Ste. 100, Wichita, KS 67202, or call Janice Bright at 265-8676.

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

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

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

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



**LOG**  
**Sleuth**  
**2000**

**AND RASTER IMAGE  
WELL LOGS**

**OVER  
5 MILLION  
LOGS  
AVAILABLE**

**1-800-310-6451**

**SALES@MJLOGS.COM**

**CALGARY • DENVER**

**U.S.A.  
LOGS FOR:**

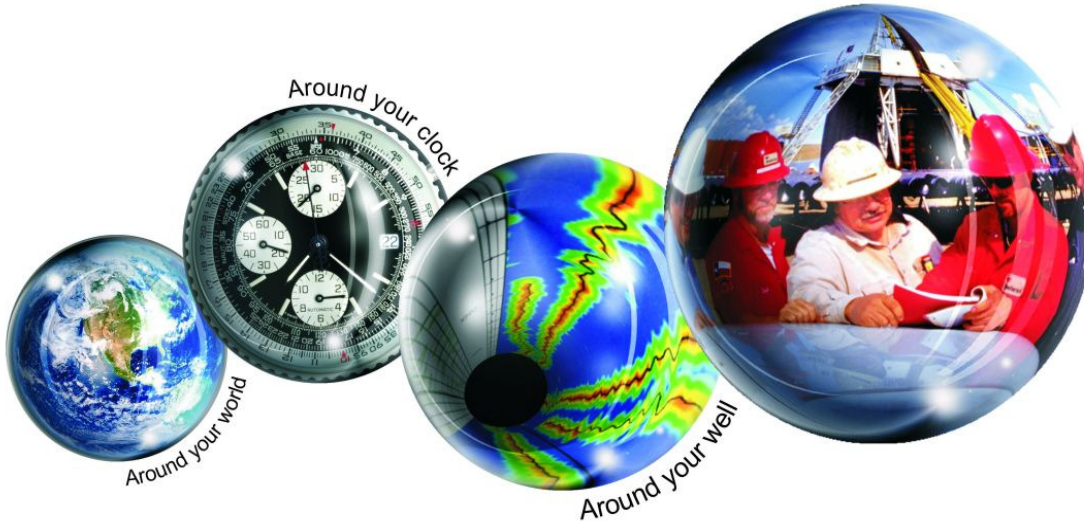
**ALABAMA  
ALASKA  
ARKANSAS  
ARIZONA  
CALIFORNIA  
COLORADO  
FLORIDA  
IDAHO  
ILLINOIS  
INDIANA  
KANSAS  
LOUISIANA  
MICHIGAN  
MISSOURI  
MISSISSIPPI  
MONTANA  
NEBRASKA  
NEVADA  
NEW MEXICO  
NORTH DAKOTA  
OKLAHOMA  
OREGON  
SOUTH DAKOTA  
TEXAS  
UTAH  
WASHINGTON  
WEST VIRGINIA  
WYOMING**

**CANADIAN  
LOGS FOR:**

**ALBERTA  
BRITISH COLUMBIA  
SASKATCHEWAN  
MANITOBA  
FEDERAL AREAS**

## Kansas Geological Foundation Memorials

KGS Member	Date Deceased	Memorial Established	KGS Member	Date Deceased	Memorial Established
Dan Bowles	09/89	1990	Floyd W. "Bud" Mallonee	10/00	2000
John Brewer	10/89	1990	Ralph W. Ruuwe	09/00	2000
George Bruce	08/89	1990	Robert L. Slamal	02/01	2001
Robert Gebhart	01/90	1990	Jerold E. Jespersen	06/01	2001
Ray Anderson, Jr.	11/90	1990	William A. Sladek	06/01	2001
Harold McNeil	03/91	1991	Harlan B. Dixon	06/01	2001
Millard W. Smith	08/91	1991	Edward B. Donnelly	08/01	2001
Clinton Engstrand	09/91	1991	Richard P. Nixon	02/02	2002
M.F. "Ted" Bear	10/91	1991	Robert W. Frensley	12/01	2002
James & Kathryn Gould	11/91	1991	Gerald W. Zorger	01/02	2002
E. Gail Carpenter	06/91	1993	Don L. Calvin	03/02	2002
Benton Brooks	09/92	1992	Claud Sheats	02/02	2002
Robert C. Armstrong	01/93	1993	Merle Britting	2002	2002
Nancy Lorenz	02/93	1993	Harold Trapp	11/02	2002
Norman R. Stewart	07/93	1993	Donald M. Brown	11/02	2003
Robert W. Watchous	12/93	1993	Elwyn Nagel	03/03	2003
J. George Klein	07/94	1994	Robert Noll	09/03	2003
Harold C.J. Terhune	01/95	1995	Benny Singleton	09/03	2003
Carl Todd	01/95	1995	Jay Dirks	2003	2003
Don R. Pate	03/95	1995	J. Mark Richardson	02/04	2004
R. James Gear	05/95	1995	John "Jack" Barwick	02/01	2004
Vernon Hess	06/95	1995	Richard Roby	03/04	2004
E. K. Edmiston	06/95	1995	Ruth Bell Steinberg	2004	2004
Jack Rine	07/95	1995	Gordon Keen	03/04	2004
Lee Cornell	08/95	1995	Lloyd Tarrant	05/04	2004
John Graves	10/95	1995	Robert J. "Rob" Dietterich	08/96	2004
Wilson Rains	10/95	1995	Mervyn Mace	12/04	2004
Heber Beardmore, Jr.	09/96	1996	Donald Hoy Smith	04/05	2005
Elmer "Lucky" Opfer	12/96	1996	Richard M. Foley	06/05	2005
Raymond M. Goodin	01/97	1997	Wayne Brinegar	06/05	2005
Donald F. Moore	10/92	1997	Charles B. Moore	09/96	2005
Gerald J. Kathol	03/97	1997	Jack Heathman	05/06	2006
James D. Davies	08/88	1997	Charles Kaiser	09/06	2006
R. Kenneth Smith	04/97	1997	Rod Sweetman	08/06	2006
Robert L. Dilts	05/97	1997	Karl Becker	10/06	2006
Delmer L. Powers	06/72	1997	Frank Hamlin	10/06	2006
Gene Falkowski	11/97	1997	Marvin Douglas	12/06	2006
Arthur (Bill) Jacques	01/98	1998	Robert W. Hammond	04/07	2007
Bus Woods	01/98	1998	Eldon Frazey	04/07	2007
Frank M. Brooks	03/98	1998	Pete Amstutz	05/07	2007
Robert F. Walters	04/98	1998	Charles Spradlin	05/07	2007
Stephen Powell	04/98	1998	Donald R. "Bob" Douglass	09/07	2007
Deane Jirrels	05/98	1998	Vincent Hiebsch	11/07	2007
William G. Iversen	07/98	1998	Glen C. Thrasher	03/08	2008
Ann E. Watchous	08/98	1998	Peg Walters	06/08	2008
W.R. "Bill" Murfin	09/98	1998	Theodore "Ted" Sandberg	07/08	2008
Donald L. Hellar	11/98	1998	James Ralstin	11/08	2008
Joseph E. Rakaskas	01/99	1999	Earl Brandt	04/09	2009
Charles W. Steincamp	02/99	1999	Walter DeLozier	05/09	2009
Robert and Betty Glover	10/96	1998	Donald D. Strong	01/10	2010
Howard E. Schwerdtfeger	11/98	1999	John Stone	02/10	2010
W. W. "Brick" Wakefield	03/99	1999	Craig Caulk	03/10	2010
V. Richard Hoover	01/00	2000	Joseph E. Moreland, Jr.	03/10	2010
Warren E. Tomlinson	01/00	2000	Gene Garmon	03/10	2010
James A. Morris	01/00	2000	James F. Dilts	05/10	2010
Eric H. Jager	03/00	2000	Jerry Pike	05/10	2010
Kenneth W. Johnson	03/00	2000	Donald Hollar	06/10	2010
Dean C. Schaake	03/00	2000	Delbert Costa	08/10	2010
Fred S. Lillibridge	05/00	2000	John Tanner	08/10	2010
Jerry A. Langrehr	07/00	2000	William (Bill) Owen	09/10	2010
Clark A. Roach	07/00	2000	Harold (Hal) Brown	10/10	2010



## 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](http://www.weatherford.com) or contact either your Weatherford or former Precision Energy Services representative.


Drilling | Evaluation | Completion | Production | Intervention

© 2006 Weatherford International Ltd. All rights reserved. Incorporates proprietary and patented Weatherford technology.

**CHANGE SERVICE REQUESTED**

KGS BULLETIN  
 Mar.—Apr. 2011

**March 2011**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8 Tech Talk	9 KGS Board Mtg.	10 KGF Board Mtg.	11 Career day at WSU	12
13	14	15 Tech Talk	16	17 	18	19
20	21	22 Tech Talk	23	24	25	26
27	28	29	30	31		

**April 2011**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5 Tech Talk	6	7	8	9
10	11	12	13	14 KGS Board Mtg.	15	16
AAPG Meeting in Houston						
17	18	19 Tech Talk	20	21	22	23
24	25	26 Tech Talk	27	28	29	30