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# PBS-SEPM NEWSLETTER

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## KEY DATES For February, March, and April

### FEBRUARY 2020

- **11: WTGS Luncheon**, Midland Country Club, 11:30am-1pm, Stacy McWhorter, Reservoir Implications of Desiccation in Unconventional Reservoirs – ‘Soaking’
- **11: SIPES Annual Meeting & Dinner**, Midland Country Club, 6:00pm
- **17: SPE-PB Section Meeting Lunch**, Midland Petroleum Club, 11:30am-1:00pm, Lawrence Camilleri, Production Optimization of Conventional & Unconventional Wells with ESP Real Time Data
- **18: PBS-SEPM Luncheon**, Bush Convention Center, 11:30am– 1pm, Dr. Jim Puckette
- **25: SPWLA-PB Luncheon**, Carrasco Rm, 11:30am-1pm, Hani Elshahawi, Machine Learning for Directional Drilling Applications

### MARCH 2020

- **05: Robert Reed Distinguished Lecturer Dinner**, Bush Convention Center, Dr. Lee Krystinik, Oil, Gas and Climate Change Concerns: Seeking a Pragmatic Energy Reality, 6:00pm-9:00pm
- **10: WTGS Luncheon**, Midland Country Club, 11:30am-1pm,
- **17: PBS-SEPM Luncheon**, Bush Convention Center, 11:30am-1pm, TBD
- **26: SPE-PB Section Meeting Lunch**, Midland Petroleum Club, 11:30am-1:00pm, Gregory Walker, Enhancing Fluid Recovery in Shales

### APRIL 2020

- **3-5: PBS-SEPM ROZ Core Workshop & Field Trip**
- **21: PBS-SEPM Luncheon**, Bush Convention Center, 11:30am-1pm, TBD

## President's Column

Happy New Year Fellow PBS-SEPM Members, I hope all is well with all our members, another new year has started, my how they do roll by! The snow this week has been wonderful, it feels like we have finally started winter. I'm sure in true West Texas fashion, we will see a few more dirt storms before we seen another snow fall.

PBS-SEPM, and more specifically Frank, is working on making the website even more user friendly. We are getting closer to creating a membership login for new and renewing members as well as making the digital publications created by the 2007-2008 Board to be available for download off our website. We hope to achieve both in the next few months, and I will be sure to let you know when y'all will have access. Lastly, in regards to the website, Frank has successfully made Cory Hoffman's Carbonate Well Log and Core Analysis Spreadsheet v. 5.0 available for download on the website.

We have two major events coming up this spring. On March 5th, we will be hosting the inaugural Robert Reed Distinguished Lecturer Series at the Bush Convention Center in the Ballroom from 6:00 pm to 9:00 pm with Lee Krystinik as the speaker. His talk "Oil, Gas and Climate Change Concerns: Seeking a Pragmatic Energy Reality," should be dynamic and informative lecture. Please RSVP before February 28th on our website, under the events tab to enjoy a dinner catered by Ray's Italian Bistro (be sure to select vegetarian choice if needed when registering). In addition, there will be a mixer from 6:00 pm till 7:00 pm as well as a cash/credit bar, available for anyone who would like to wet their whistle.

Although, we will be postponing the PBS-SEPM Young Professionals Field Trip until June 2020, we are happy to announce that PBS-SEPM will be hosting a ROZ Core Workshop and Field Trip April 3rd-5th. Dr. Robert Trentham, Dr. Bob Lindsay, and Dr. Steve Melzer will be the course leaders. We will be sending out flyers with more details to come this month, but know this will be a great course with world class leaders.

We are always in need of more lecturers to bring to Midland. If you would like to present, or know someone who would, please contact one of our board members, or you can contact our Second VP Dan Scott directly, he oversees the luncheon lectures. You can contact Dan at (406)-544-2737 or [dscott@sm-energy.com](mailto:dscott@sm-energy.com).

We look forward to seeing you all at the next luncheon, Tuesday, February 18th, at the Bush Convention Center, with Dr. Jim Puckette, the Geoscience Education Chair in the Boone Pickens School of Geology at Oklahoma State University, as our luncheon lecturer. Dr Puckette is known to many of us here in the Permian Basin, I know he will give a great talk.

*Sandra Elliott*

**PBS-SEPM President 2019-2020**

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Geitgey Pool View



## PBS-SEPM Luncheon Talk – January 21, 2020

### Cory Hoffman

#### *“PBS-SEPM Carbonate Well Log and Core Analysis Spreadsheet v. 5.0: Overview and Utility*

Geological Senior Advisor at Apache Corporation

Tuesday, January 21, 2020 - **Bush Convention Center**, 11:30 a.m.

#### Abstract

When a carbonate reservoir has textures and pore types similar to the sandstones used to develop Archie’s equation (i.e., interparticle pores), the calculation of Sw from well logs is relatively straightforward. Yet carbonates are extremely susceptible to cementation and dissolution and often contain non-Archie pore types (e.g., intraparticle, vuggy, moldic, etc.), which may grossly violate the assumption of  $m=2$  (if  $m>2$ , calculated Sw is lower than actual) and inherently possess a higher relative permeability to water. Without alternative methods to confirm the standard Archie Sw assumptions, porosity and Sw cutoffs alone are inadequate for differentiating between a profitable target and an uneconomic teaser. To address these challenges, over the decades several authors have established empirical relationships and interpretation techniques that provide insight into the pore types present, predict the fluid produced, and better estimate Sw using common open hole log suites. The Carbonate Well Log and Core Analysis spreadsheet tool brings together many of these underutilized log analysis techniques advocated by Dr. George Asquith and others to rapidly screen and de-risk potential pay zones in carbonate reservoirs. When routine core data and/or capillary pressure data is also available, additional productivity insights can be gained by comparing log analysis results with core-derived saturations, reservoir quality indicators, height above free water level, etc. all within this integrated analysis tool.



#### Biography

Cory Hoffman is a Geological Senior Advisor for Apache Corporation responsible for providing technical guidance in the development of 50+ operated Permian Region conventional carbonate assets undergoing primary, secondary (waterflood), and/or tertiary (CO2 flood) recovery. He received a B.S. in Geology from Virginia Tech and a Ph.D. in Geology from the University of Texas at Austin where he specialized in carbonate sedimentology and cyclostratigraphy. Cory began his professional career with Texaco (Midland, TX) in 1999, and is a Texas Licensed Professional Geoscientist with over 20 years of experience in the oil and gas industry. With the notable exception of evaluating and managing Midland Basin resource plays, most of his career has focused on the development of carbonate and mixed carbonate-clastic reservoirs throughout the Permian Basin encompassing a variety of formations, depositional environments, diagenetic overprints, mineralogies, pore types, pore fluids, logging suites, and production behaviors. Given his development bent and strong interest in petrophysics, Cory received advanced training in formation evaluation and reservoir characterization from many industry experts (e.g., Doug Hilchie, George Asquith, Gene Ballay, Jerry Lucia, and Dan Hartmann), and captured many of those useful yet underutilized log analysis and core analysis techniques in a spreadsheet tool to help geologists predict and explain production behavior as well as identify bypassed pay.(1985).

## THANK YOU ALL WHO CAME OUT!



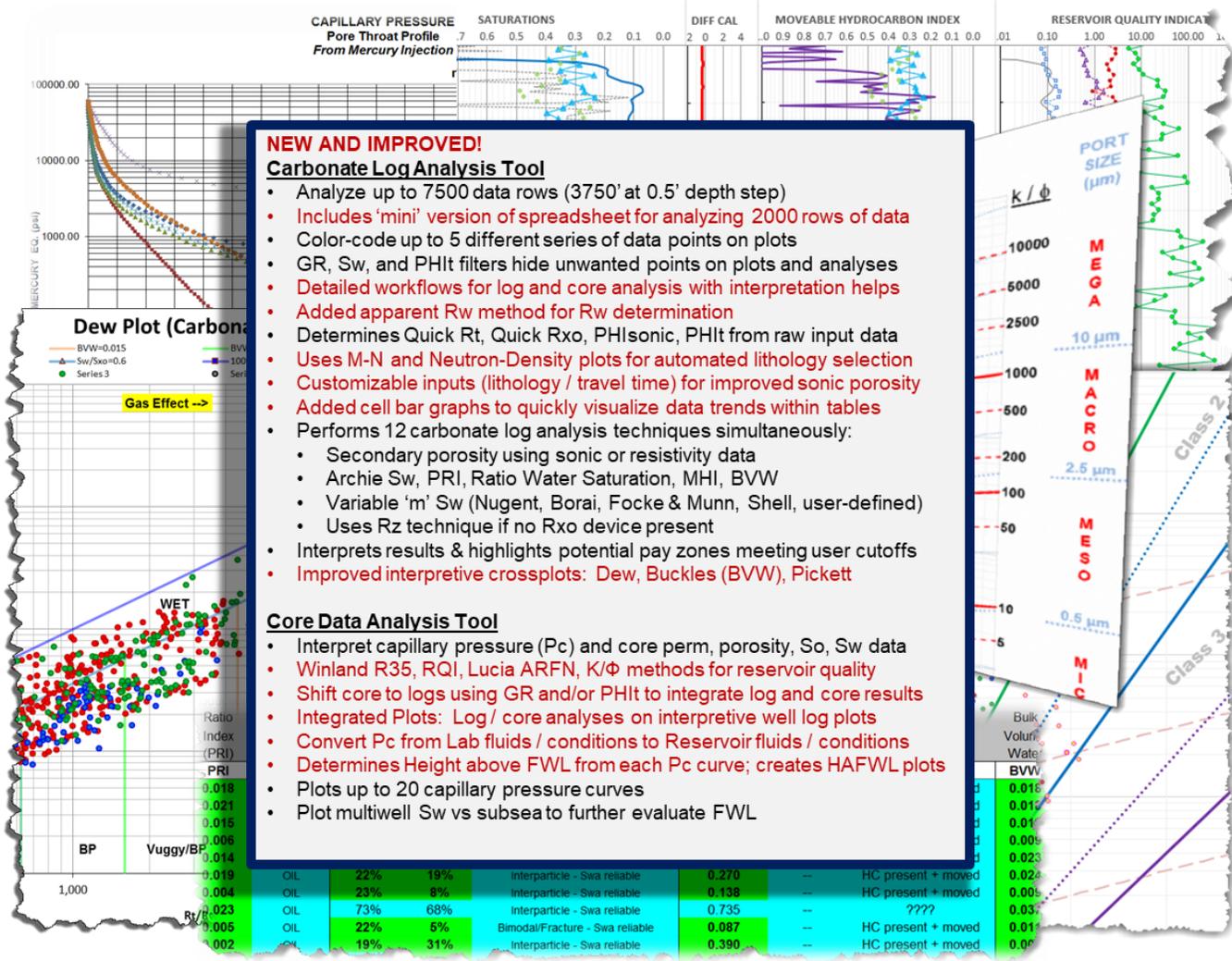


# Carbonate Log & Core Analysis Spreadsheet v. 5.0

By Cory L. Hoffman, Ph.D.

Major Upgrade (January 2020)! [Designed for Microsoft Excel 2013]

Carbonate Log analysis draws heavily upon teachings of George Asquith  
Core Data analysis draws heavily upon teachings of Dan Hartmann



**NEW AND IMPROVED!**

**Carbonate Log Analysis Tool**

- Analyze up to 7500 data rows (3750' at 0.5' depth step)
- Includes 'mini' version of spreadsheet for analyzing 2000 rows of data
- Color-code up to 5 different series of data points on plots
- GR, Sw, and PHIt filters hide unwanted points on plots and analyses
- Detailed workflows for log and core analysis with interpretation helps
- Added apparent Rw method for Rw determination
- Determines Quick Rt, Quick Rxo, PHIsonic, PHIt from raw input data
- Uses M-N and Neutron-Density plots for automated lithology selection
- Customizable inputs (lithology / travel time) for improved sonic porosity
- Added cell bar graphs to quickly visualize data trends within tables
- Performs 12 carbonate log analysis techniques simultaneously:
  - Secondary porosity using sonic or resistivity data
  - Archie Sw, PRI, Ratio Water Saturation, MHI, BVW
  - Variable 'm' Sw (Nugent, Borai, Focke & Munn, Shell, user-defined)
  - Uses Rz technique if no Rxo device present
- Interprets results & highlights potential pay zones meeting user cutoffs
- Improved interpretive crossplots: Dew, Buckles (BVW), Pickett

**Core Data Analysis Tool**

- Interpret capillary pressure (Pc) and core perm, porosity, So, Sw data
- Winland R35, RQI, Lucia ARFN, K/φ methods for reservoir quality
- Shift core to logs using GR and/or PHIt to integrate log and core results
- Integrated Plots: Log / core analyses on interpretive well log plots
- Convert Pc from Lab fluids / conditions to Reservoir fluids / conditions
- Determines Height above FWL from each Pc curve; creates HAFWL plots
- Plots up to 20 capillary pressure curves
- Plot multiwell Sw vs subsea to further evaluate FWL

**Carbonate Log and Core Analysis Tool (\$50) - Includes free 'mini' version and any in-version upgrades (5.x)**

Quantity: \_\_\_\_\_ Will Pick up at PBS-SEPM Office (Y/N)? \_\_\_\_\_

Sub-total: \$ \_\_\_\_\_

Shipping: \$ \_\_\_\_\_ [N/A if picking up at PBS-SEPM office]

Total: \$ \_\_\_\_\_

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**To purchase online, click on link <https://www.pbs-sepm.org/product-page/carbonate-well-log-and-core-analysis-spreadsheet>**  
**and pay with credit card**

## PBS-SEPM Luncheon Talk – February 18, 2020

### Dr. Jim Puckette

#### *“Applying a Sequence Stratigraphic Model to Explain Stratigraphic Architecture and the Spatial Distribution of Reservoir Facies in the Mississippian Limestone”*

*Associate Professor and Geoscience Education Chair in the Boone Pickens School of Geology at Oklahoma State University*

Tuesday, February 18, 2020 - **Bush Convention Center**, 11:30 a.m.

### Abstract

When high-resolution correlations are constructed in densely drilled areas, the boundaries of higher-frequency cycles are recognizable and the influence of accommodation on clinoform geometry becomes apparent. In the Star-Lacey field, Kingfisher and Blaine counties, Oklahoma, subaerial exposure of grain-rich depositional facies in the upper regressive section of a probable 3<sup>rd</sup>-order depositional sequence resulted in reservoir development. In this case, reservoir genesis was controlled by primary depositional facies and sequence stratigraphic hierarchy. The reservoir formed as the result of subaerial exposure of dissolution prone facies during regression associated with the sequence boundary. When other facies are exposed along the sequence boundary or the grain-rich facies of higher-frequency cycles are not, the rock remained low porosity/permeability. Furthermore, the apparent change in depth to the reservoir relative to the contacts of the carbonate-dominated interval with the Woodford Shale at the base and the Mississippian shale at the top can be explained by following the sequence boundary. In the southern part of the field, the top of the proposed 3<sup>rd</sup>-order sequence containing the reservoir is approximately two-hundred (200) feet above the contact with the Woodford Shale. Approximately three (3) miles to the north, the sequence boundary and reservoir are more three (300) feet above the Woodford Shale while the thickness of the carbonate interval remains the same. This example illustrates how core-defined, high frequency cyclicity can be used to improve production-scale predictability of oil and gas reservoirs in the Mississippian limestone and enhance exploration strategies.

### Biography

Jim is Associate Professor and Geoscience Education Chair in the Boone Pickens School of Geology at Oklahoma State University. Jim specializes in physical stratigraphy and petroleum geology. Prior to joining the faculty in 2000, Jim was an exploration geologist working mostly in the northern and central Oklahoma. He is presently involved in studies of conventional and unconventional reservoirs including the Hunton Group, Caney Shale, Woodford Shale, Mississippian carbonates and Pennsylvanian sandstones and carbonates. In addition to his collegiate instruction and research, Jim is active in outreach through teacher training and presentations to school and youth groups. Jim thrives on field work and is the Director of the OSU Les Huston Field Camp near Cañon City, Colorado.



**“If there is no struggle,  
there is no progress.”**

–Frederick Douglass  
(1818-1895)  
Abolitionist, suffragist,  
author, editor, diplomat



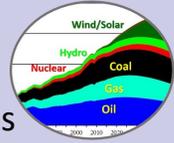
## PBS-SEPM Robert L. Reed Jr. Distinguished Lecturer

March 5, 2020 6:00 pm – 9:00 pm

Bush Convention Center, 105 N Main St, downtown, Midland, Texas

**\$50 per person \$40 for full time students**

**RSVP by February 28 at** <https://www.pbs-sepm.org/events-1/pbs-sepm-robert-read-distinguished-lecturer>



### ***Oil, Gas and Climate Change Concerns: Seeking a Pragmatic Energy Reality***

Dr. Lee F. Krystinik

Dr. Krystinik's talk focuses on understanding the US and World Energy Spectrum, discusses the author's search for the point where hyperbole starts and climate reality stops (from both sides) regarding anthropogenic climate change, and discovering where and how alternative vs. conventional energy sources fit into the picture.

#### ***addressing the questions:***

How much of climate change is anthropogenic?

How does the UN IPCC model match actual data?

What rate and scale of climate change are we talking about?

How does today's climate fit in the context of Earth's history?

What about wind & solar: can we reach a clean energy future by 2050? Should we abandon all oil investment?

What about natural gas, especially in the USA?

How does coal fit into the global energy mix?

Can fusion power yield a clean air utopia?

What can we do to meaningfully reduce our CO<sub>2</sub> footprint, and what are some pragmatic public policy options?

#### **BIOGRAPHICAL INFORMATION:**

Dr. Lee F. Krystinik earned his Ph.D. in Geology from Princeton University and began his career as a research geologist for the U.S. Geological Survey before rising through the ranks of various private, public and PE backed start-up companies, including Equus Alliance, which he founded to use advanced technologies to pursue low-cost oil targets.

Dr. Krystinik specializes in the use of detailed sedimentology and stratigraphy to determine variations in paleoenvironments and paleoclimate, as recorded in the rock record. Lee is particularly interested the linkage of modern climatic data from NOAA and NASA and the sedimentary character of modern deposits, as compared to ancient deposits. One facet of his research documents similarities between 300 million year old deposits in Texas and Oklahoma to the sedimentary products of recent glacial and interglacial events of the last few million years. These observations place modern climate change into context relative to the extensive paleoclimatic history of our planet and help frame the climate discussion. Krystinik has won a number of awards for technical and presentation excellence,



## PBS-SEPM Publications



### *PBS-SEPM Symposia And Core Workshops on 3 DVDs*



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## PBS-SEPM Executive Board (2019-2020)

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*Do you have an idea for an interesting luncheon talk? Have a core workshop you'd like to present? Have some suggestions on how PBS-SEPM can better serve the geologic community? Send us an e-mail to share your idea, your PBS-SEPM Executive Board wants to hear from you!*

**Corporate Sponsorships (2019-2020) - PBS-SEPM is grateful for the generosity of these fine corporate sponsors !**

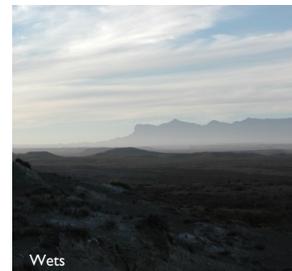


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**-Thurgood Marshall  
(1908-1993)**

**Judge,  
Solicitor General,  
Justice of the  
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If you are interested in a sponsorship opportunity, please call PBS-SEPM for more details at (432) 279-1360 or e-mail [info@pbs-sepm.org](mailto:info@pbs-sepm.org).

## Sponsorship Information (2019-2020)

This year we plan on zealously pursuing sponsors to offset the cost of the luncheons, workshops, and field trips. We have revamped our sponsorship contribution into three categories and will run the same as the membership year, June 1st to May 31st each year.

**Gold:** \$1000.00: company logo on all PBS-SEPM events, newsletters, the website and new publications

**Silver:** \$750.00: company logo on all PBS-SEPM events, newsletters, and the website

**Bronze:** \$500.00: company logo on all PBS-SEPM luncheons, newsletters, and the website

We are compiling a list of industry companies, vendors, and local businesses to send out our sponsorship request. We believe encompassing the Midland businesses, such as grocery stores, restaurants, hardware stores, etc, that all play a role in keeping the Permian Basin area up and running should also be considered as potential sponsors for our events.

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## Individual Sponsors of PBS-SEPM (2019-2020)

Individual sponsors are advertised on the PBS-SEPM website and each newsletter. Cost is \$85/year. If you are interested in a sponsorship opportunity, please call PBS-SEPM for more details at (432) 279-1360 or email [info@pbs-sepm.org](mailto:info@pbs-sepm.org).

### ***Your Business Card Could be here!***

Your card will be in every newsletter for one year from August to May, on the PBS-SEPM Website, and on the PowerPoint shown prior to every luncheon.

***“Success is to be measured not so much by the position that one has reached in life, as by the obstacles which he has overcome while trying to succeed.”***

-Booker T. Washington  
(1856-1915)

**Educator, author, and African American civil rights leader**



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If you are interested in a sponsorship opportunity, please call PBS-SEPM for more details at (432) 279-1360 or e-mail [info@pbs-sepm.org](mailto:info@pbs-sepm.org).

***“My humanity is bound up in yours, for we can only be human together”***

-Desmond Tutu  
(1931-)

Anti-apartheid and human rights activist, Bishop of Johannesburg, Archbishop of Cape Town

PBS-SEPM is the Permian Basin Section of SEPM—the Society for Sedimentary Geology. However, you do not need to be a SEPM member or a geologist to join PBS-SEPM.

Our non-profit society relies entirely upon the efforts of dedicated volunteers to serve the geological community—primarily through educational events. These events include monthly luncheon talks, core workshops, annual field trips, and special geological publications. Additionally, we are involved on the college campuses—reaching out to future earth scientists through scholarships, discounted memberships, and offering full-time geology students the ability to participate in professional-grade field trips at little to no cost.

If you would like to join PBS-SEPM, you may visit our website ([www.pbs-sepm.org](http://www.pbs-sepm.org)) to learn more about us, download a membership form, and learn how to get involved.

### Scholarship and Distinguished Speaker Events (2019-2020)

**Wendell J. Stewart Fund:** so named for the famous sequence stratigrapher, was initially funded by the family, and then later through PBS-SEPM members who have contributed over the years. In the past, the scholarship was established to award high school students intending to pursue a college education in the geoscience field (declared major), and had evolved to include college students actively pursuing a geology degree when there were no other qualified candidates. Funding for this scholarship has waxed and waned over the years with the changes of the petroleum industry and because this scholarship is set up in such a manner that only the interest can be used to distribute funds, most scholarships in the last 30 years have been awarded through the PBS-SEPM main budget and not the scholarship fund.

**Robert Reed Distinguished Lecturer Fund:** was founded to honor a bright, young geologist who had been an active member of both PBS-SEPM and WTGS and was tragically killed by a drunk driver. Donations from various members of both societies contributed to a membership donation fund that both encourages our continuing education efforts by helping offset the cost of bringing in a distinguished lecturer, usually in geosciences, but not required. However, since its creation, PBS-SEPM has never used the funds to bring in a lecturer.

**This year we plan on bringing a speaker in for an event in early spring.**

Lee Krystinik, past president and distinguished lecturer of the AAPG, will be joining us in March at the Bush Convention Center for a talk regarding climate change.

We hope y'all can join us for our inaugural event.