

**OSAGE MINERALS COUNCIL
WELCOMES YOU TO THE
FOURTEENTH ANNUAL OIL & GAS SUMMIT**

MINERALS COUNCIL



Left to Right: Cynthia Boone, Kathryn Redcorn, Stephanie Erwin, Joseph Cheshewalla, Evertt Waller (Chairman), Galen Crum, Talee Redcorn and Andrew Yates

Welcome

The Osage Minerals Council cordially welcomes you to our Fourteenth Annual Osage Oil “& Gas Summit. This Summit has become a tradition and is a great line of communication between the Osage Minerals Council and all producers in Osage County.

We thank all of our sponsors and exhibitors – You are the people who continue to make this program successful and we sincerely appreciate your interest and continued support.

We would also like to thank the Oklahoma Geological Survey and the Steering Committee for their continued support.

The theme this year is “PAST, PRESENT AND MOVING FORWARD”. While remembering our rich past, we are looking towards the future for a continued successful partnership with all of you!

Again, welcome and have a great Summit!



Steering Committee Welcome

From the Chairman, Rick Torix:

*For years, oil tycoons and businessmen such as John Paul Getty and John D. Rockefeller said, "Meet me at the Mayo"; now the **Fourteenth Annual Osage Oil & Gas Summit** can say the same!*

I would like to give special thanks to all of the Osage Summit Steering Committee members for their continued hard work and dedication to the Osage Oil & Gas Summit. It has been a pleasure to work with the entire group, and I know that they join me in extending a warm welcome to all of you!

Thanks also go to the Osage Minerals Council who continues to give us encouragement and support. We are also grateful to the Oklahoma Geological Survey for their continued support of the Osage Oil & Gas Summit and their work on our committee.

*And last, but not least, we thank all of you for your sponsorships, exhibits and participation! **YOU MAKE THIS ENDEAVOR POSSIBLE EACH YEAR** and we certainly appreciate your support!*

I'm happy that you have decided to "meet us" at the historic Mayo Hotel for a very special Osage Oil & Gas Summit! Welcome!

Steering Committee Members

Cynthia Boone
Charity Damron
Dana Daylight
Susan Forman
Mary Johnson
Heather Little
Bill Lynn
Mark Pearson
Christy Red Eagle
Michelle Summers
Rick Torix (Summit Chairman)
Everett Waller (OMC Chairman)
Andrew Yates



“About the Artist”



Jessica (Moore) Harjo

Jessica (Moore) Harjo is the daughter of Ted and Terry Moore of Fairfax, Oklahoma. She is Osage, Otoe, Pawnee, and Sac & Fox. Jessica resides in St. Paul, Minnesota with her husband Russell and is currently attending the University of Minnesota Graduate School of Design. She is working on her Masters of Arts in Interactive Design and is a proud alumna of Oklahoma State University where she obtained her Bachelors of Landscape Architecture with a minor in Studio Art and certificate in Environmental Studies.

Jessica is a freelance Graphic Designer and has created numerous logos, t-shirt designs, program art, advertisements, marketing/promotional materials, and interactive web/mobile interface designs. She also works part time as a Graduate Assistant at the University of Minnesota helping teach the Design and Visual Presentation undergraduate class. She enjoys dancing at powwows and traveling and is a member of the dance troop Native Pride Dancers from

Minnesota. Jessica has always enjoyed representing her Native American culture whenever possible while inspiring and educating the Native American youth. Her designs most always have a link to the Native American culture and she enjoys creating designs that represent different tribes, cultural art and technology. She has received many awards and won many competitions for her designs, logos and program art.

Honors and Awards:

2012 National Indian Education Association Conference Logo Designer

2012 American Indian Science and Engineering Society—National Science Fair Logo Artist

2010 “Seniors of Significance” Award (top 1% of graduating seniors), Oklahoma State University

2009 “40 Under 40” Leadership Award, National Center of American Indian Enterprise Development

Member of Alpha Pi Omega Sorority, Inc., A Native Women’s Sorority

Lifetime Member of the Oklahoma Federation of Indian Women

Miss Indian Oklahoma (2008)

Kihekah-Steh Powwow Princess (2007)

Miss American Indian Exposition (2006)

Otoe-Missouria Tribal Princess (2005)

OSU-NASA (Miss American Indian Oklahoma State University) (2003/2004)

Osage Tribal Princess (1998)



Cultural Significance of the Blanket

Prior to 1865, much of our Osage Land was ceded to the U.S. Government for Caucasian westward expansion beyond the Mississippi River. The treaties of 1808 and 1825 were still being negotiated with the Department of the Interior up until the start of the Civil War of the United States. The Osage people as a whole were divided with most putting their interest with the Union; they were removed to what was called Kansas Territory prior to the war.

A tremendous amount of change was taking place around our people, once the Civil War was over. Due to circumstances, the native people were transitioned to what was already Indian Territory. There was in most cases a minimal amount of hope and foresight for the future of the Osage people at that time. The population of the tribe was greatly decreased from 1800 to 1865 due to wars, disease, and exposure. It can be estimated that the population of the tribe lessened by approximately 25,000 by the time they reached their Kansas homeland.

The French traders and Christian missionaries all recommended that our people relocate with dignity to a new land that we could purchase with our own financial resources, which was to become the Osage reservation. An agreeable amount was negotiated with the Cherokee tribe backed by a compromising U.S. Government.

Many lives and families were lost since the days of the early 1800's, and the mood was perfectly clear for a new start and beginning for our people. All the old ways of the elk and buffalo were gone and taken away, the means for shelter and provisions were in plentiful doubt.

A new adoption of ways had to be set into place, and one thing was for certain, there was going to be a dramatic change. The Osage people, known for their statuesque dignity, generosity, and self-sufficiency, often wondered what the future held for the generations to come in the future. Being a humble people, they accepted what was given to them for provision and shelter, besides rations pertaining to food for the sustaining of life. Material for clothing was provided and the blankets of which was made of broadcloth material were provided for warmth in the winter and comfort in the milder seasons. They clung to this feeling with sheer gratitude and grace for the generosity bestowed by the U.S. Government for this material.

This answered their anticipated question for the future; the broadcloth blanket provided all that was needed for the winter and milder seasons and for the future of our people to come. Many changes were taking place, one of them was our culture and ceremonies, and the war dance was brought in after our move to Indian Territory. This material was installed into our cultural dance, as well as everyday apparel, in that time period. All the ancient old ways were for the most part, departed with the old people when they left this world of which they felt they didn't belong.

The blanket took on a great significance at this point, and it became a new symbol in itself for the generations to come in the future. The broadcloth was used extensively in everyday life as well as in ceremonial customs for men and women and their children.

The blanket became a show of wealth just like the Spanish horse from across the ocean had become generations before. It was used to show respect, honor, and most of all gratitude and generosity. Even in our modern times, it's almost like we are returning the favor to other counter cultures by showing our generosity through broadcloth blankets. Looking back to those harsh winters that our ancestors endured, knowing they would survive and be spiritually thankful to the new people from across the water for generations to come.



**Energizing
America's Heartland**

In more than 25 years Chaparral has never been satisfied with the status quo. Focused on innovation, resourcefulness and loyalty to the communities where we operate, we are dedicated to continuously pursuing a better way. It's the reason we continue to grow. It's how we are creating a better tomorrow. And it is how we are breathing new life into historic Oklahoma oilfields as we energize America's Heartland.

chaparralenergy.com





GENERAL INFORMATION

Breaks

All breaks will take place in the Crystal Ballroom Foyer. All seated food functions will take place on the first floor in the Grand Hall.

Complimentary Drink Tickets

You will find two drink tickets behind your name badge, which are good for two complimentary cocktails during the cocktail hour on Wednesday evening at 6:30 p.m. in the Rooftop Cocktail Lounge, located on the top floor of the Mayo Hotel. These tickets are also good at the bars located in the Grand Hall during the Banquet and Opening Ceremonies.

Exhibit Hall

All exhibitors will be located in the Crystal Ballroom Foyer.

General Session/Presentations

The General Session and all presentations will take place in the Crystal Ballroom.

Osage Casino Tulsa Free Play

The Osage Casino Tulsa will provide all attendees with \$10.00 free Casino Play.

Welcome to “Tulsa Time”!

From Indian Territory to oil boomtown, Tulsa has experienced many changes over the generations. Settled in the 1800’s by Native American tribes traveling west, Tulsa is deeply rooted in Native American heritage, oil, arts and culture.

Modern day “Tulsa” derives from the Lochapoka word, “Tulasi”. The name was given upon settling the land in 1836 at a site near present-day Cheyenne Avenue and 18th Street. In this place, under a large burr oak tree, the Lochapoka, a clan of the Creek Indians, established their home. The ceremonial tree is still standing in what is now called, “Council Oak Park”.

Around 1901, Tulsa rapidly grew from a small frontier town to a booming city with the discovery of oil. Investors flooded the city; neighborhoods sprang up and by the 1920’s Tulsa became, “The Oil Capital of the World”. During this time, oil money was plentiful and the oil barons of the day built world class architecture to work, live and play. Today, visitors to the Mayo Hotel can walk the streets of downtown to admire the grandeur of the art deco architecture of this generation.

A collection of stunning architecture is only the beginning of what downtown Tulsa has to offer visitors. There are currently over 50 restaurants and bars in downtown, all within walking distance of the Mayo Hotel. Named as one of the top-10 music cities in the nation, there is no shortage of places to catch a live performance from national acts or local performers playing the “Tulsa Sound”. For more information, please visit www.visittulsa.com



ORDER OF EVENTS

Wednesday, November 4, 2015

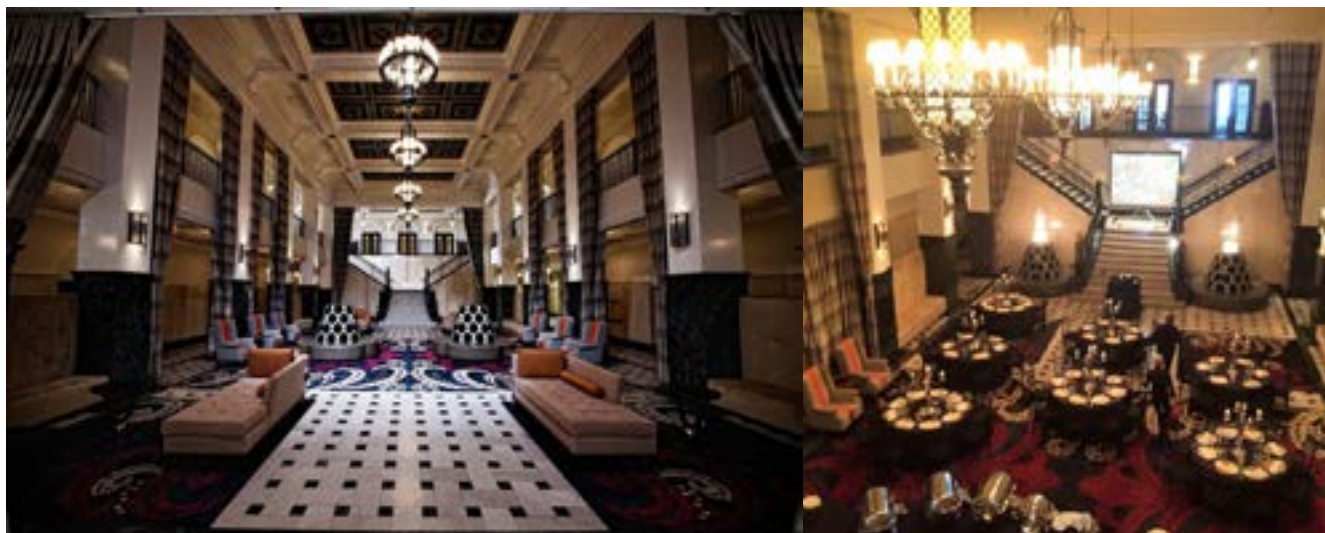
6:30pm – 7:30pm
Cocktail Hour – Opening Reception
Penthouse Rooftop Lounge

Once part of the Presidential Suite where Elvis Presley and other stars stayed, the Penthouse Rooftop Lounge sits atop the Mayo Hotel and provides the only 360 degree rooftop view in downtown Tulsa.



7:30pm – 10:30pm
Banquet and Opening Ceremonies
The Grand Hall

After the Opening Reception, join us on the first floor for the Banquet and Opening Ceremonies. Please visit the Agenda to view the Opening Ceremonies Order of Events.





Thursday, November 5, 2015

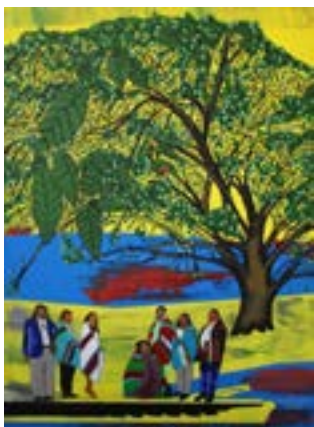
7:45am – 5:00pm
Exhibit Hall & Breaks
Foyer of the Crystal Ballroom

8:45am – 5:00pm
General Session
Crystal Ballroom



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FOURTEENTH ANNUAL OSAGE OIL & GAS SUMMIT

Mayo Hotel – Tulsa, Oklahoma

PAST, PRESENT AND MOVING FORWARD:
REVENUE CHALLENGES IN TOUGH ECONOMIC AND REGULATORY TIMES

Wednesday, November 4, 2015

- | | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 03:00 pm – 07:30 pm | Registration (<i>Grand Hall – First Floor & Penthouse Rooftop Lounge</i>) |
| 03:00 pm - 07:30 pm | Exhibitor Set-Up (<i>Crystal Ballroom Foyer</i>) |
| 06:30 pm – 07:30 pm | Reception – Cocktail Hour (<i>Penthouse Rooftop Lounge</i>) |
| 07:30 pm – 10:30 pm | Banquet Dinner & Opening Ceremonies (<i>Grand Hall – First Floor</i>)
- Keynote Speaker: Bob Blackburn, Ph.D., Oklahoma Historical Society – “ <i>Osage Tribe and Oil & Gas History</i> ” |

Opening Ceremonies: Order of Events

- Osage Drum & Singers
- American Legion Post #198
- Lord's Prayer & Lord's Prayer in Sign Language by Osage Princesses
- Welcome Remarks & Introductions by Everett Waller
- “History of the Osage Blanket” by Myron Red Eagle
- “Osage Tribe and Oil & Gas History” by Bob Blackburn, Ph.D.

Using all of his powers of descriptive storytelling, Dr. Bob Blackburn will weave together the various threads of history that led to the Osages' decision to retain their mineral rights in common. Among the threads of that story will be American Indian policy, inter-tribal conflicts, the allotment process, land openings, the coming of statehood, and the dawn of the oil industry in Oklahoma. Please join us as Dr. Blackburn takes us back to the origins of what we call head rights.

Thursday, November 5, 2015

- | | |
|---------------------|-----------------------------------------------------------------------------------|
| 07:45 am – 04:30 pm | Registration (<i>Crystal Ballroom Foyer</i>) |
| 07:45 am – 08:45 am | Breakfast (<i>Crystal Ballroom Foyer</i>) |
| 08:00 am – 05:00 pm | Exhibits (<i>Crystal Ballroom Foyer</i>) |
| 08:45 am – 09:00 am | Opening Remarks - Everett Waller, OMC Chairman (<i>Crystal Ballroom</i>) |
| 09:00 am – 09:30 am | “ <u>American Burying Beetle Issues and Developments in Osage County</u> ” |

This presentation will cover the federally listed endangered American Burying Beetle (ABB) and its complications in Osage County. The ABB is a potentially problematic species for operators, as its presence in a project area can slow the permitting process, thus slowing development. ABB policies and procedures are a constantly changing issue, and having the most current information and pre-planning is key to keeping developments on schedule.

Points covered will include a brief description of the ABB, its habitat, and how surveys to determine presence/absence are conducted. The bulk of the presentation will cover what operators in Osage County are currently obligated to do to determine potential effects to the ABB, how to avoid impacts to the ABB, and the most current understood regulatory policies, guidelines, and methods when ABB are found. Also covered will be strategies for minimizing cost, effort, and lost timing to operators regarding ABB surveys, habitat assessments, permitting, etc.

09:30 am – 10:00 am

“Woodford Shale Thermal Anomaly in Osage County, Oklahoma”

Brian J. Cardott – Oklahoma Geological Survey

The Late Devonian-Early Mississippian Woodford Shale is an important hydrocarbon source rock and oil and gas reservoir in Oklahoma. Vitrinite reflectance is an estimate of the maximum thermal maturity attained by a shale or coal sample. Woodford Shale samples have mean random vitrinite-reflectance values of 0.55–0.82% Ro at a present-day depth of ~2,400–2,600 ft elsewhere on the Cherokee Platform. However, Woodford Shale cuttings and core samples from three wells in Osage County have measured mean random vitrinite-reflectance values of 1.03–1.07% Ro (2,302–2,826 ft depths), indicating a thermal anomaly. The area of the anomaly matches a high density gravity anomaly indicating a Precambrian mafic basement rock which thermally affected the sedimentary column in post-Woodford time.

Vitrinite reflectance indicates the Woodford Shale reached the peak of the oil window in Osage County. Three Woodford Shale wells completed in Osage County from 2008–2011 had low initial potential gas rates (1–160 thousand cubic feet of gas per day) and a low initial potential oil rate (17 barrels of oil per day).

10:00 am – 10:30 am

Networking Break (*Crystal Ballroom Foyer*)

10:30 am – 11:00 am

“Natural Gas & Hydrocarbon Measurement... and Dollars”

Stephen Stark – Stark & Associates, Inc.

The measurement of hydrocarbon liquids and natural gas on Osage lands is the beginning of the money trail that leads to royalty payments, retroactive adjustments, and tracking lost and unaccounted for

gas and liquids. The measurement process is very complex but should be generally understood by all concerned parties to help ensure the prudent disposition of valuable hydrocarbon resources.

11:00 am – 11:30 am

“Discussion of the Mississippian Stratigraphic Column for North Central Oklahoma”

Kurt Rottmann – Consultant Geologist, Geocomp Energy

11:30 am – 12:00 pm

“Produced Water Budget for Oklahoma”

Kyle Murray – Oklahoma Geological Survey

Management of produced fluids has become an important issue in Oklahoma because large volumes of saltwater are co-produced with oil and gas, and subsequently disposed into saltwater disposal (SWD) wells. Research indicates that earthquakes can be triggered by SWD near strike-slip faults that are oriented in directions that are prone to slippage under prevailing regional stresses, especially when high-volume SWDs are completed in basal sedimentary strata (such as the Arbuckle Group). Statewide (excluding Osage County) SWD volumes ranged from at least 843 million barrels in 2009 to more than 1.52 billion barrels in 2014, and steadily increased at rates that mimic petroleum production.

It is challenging to quantify the volumes of co-produced water by province, county, or production zone because co-produced water is generally not reported. The goal of this research is to estimate co-produced water volumes by multiplying oil and gas production rates by production ratios of H₂O:oil and H₂O:gas that were derived from initial potential or production tests. Much of the increase in petroleum production has occurred in central and north-central Oklahoma because of development in the Cherokee Platform and Anadarko Shelf geologic provinces. Preliminary estimates of co-produced water indicate that ratios are highest for production from the Mississippian and Hunton zones. Regions of the state that are most actively producing from these zones are also generating the greatest volumes of co-produced water. The approach for estimating produced water volumes appears to be valid because spatial and temporal estimates of co-produced water volumes are in relative agreement with SWD volumes. The next step in management of produced fluids is to explore optimization strategies that reduce deleterious effects. For example, if the Mississippian is the predominant source of produced water in an area, then we can evaluate recycle and reuse options versus enhanced oil recovery injections back into the same zone versus disposal into another zone.

12:00 pm – 01:15 pm

Keynote Luncheon (*Grand Hall – First Floor*)

“Seismic Resources & Characterizations of Paleozoic Reservoirs in Osage County, Oklahoma”

Shane Matson – Bandolier Energy, LLC

The production history in Osage is that of the energy business itself. Led by the historical work of the majors, who were established by discoveries in Osage in the first half of the previous century, today's independents continue to explore this mature region. Remaining reserves are significant but the oil and gas reside in challenging environments. Successful exploitation of remaining reserves will depend on sound application of geological science and appropriate drilling, completion and production technology. The use of geophysical data to understand regional controls on reservoir development, hydrocarbon migration and trapping is a key to success. Today's explorations can identify subtle structural complexes and stratigraphic traps using modern geophysical techniques to increase the probability of drill bit success. In addition to the huge volumes of important and valuable historical well data residing in the well files at the BIA's Osage Agency, the Osage own large 2D and 3D seismic data volumes. Available through agreement with the Osage Minerals Council this seismic data can be used to characterize control on historical fields and allow the prospector to identify new terrains for exploration. This talk will provide overview of existing seismic resources and examples of structural and stratigraphic traps identified using seismic acquired in Osage County. Integration of historical well data with modern seismic interpretation techniques will be highlighted.

01:15 pm – 01:45 pm

“Seeking New Revenue in Tough Times”

Kristine Peterson – Laramide Geosciences, LLC

Lower oil prices combined with new regulations have negatively impacted Osage County, the operators and the Osage Tribal Mineral Estate. The Osage Mineral Estate is taking steps to remedy internal and externally imposed regulations and eventually prices will rebound. This is a great time to dig into the data and ask the question – has everything been found, what has been overlooked in Osage County? We will briefly look at just a few of numerous ideas for further exploration and development of the Osage Mineral Estate and the roles that both the Osage Mineral Council and Osage Producers Association's operators can play. Problems spawn opportunities, you don't find what you don't look for.

Many of these oil and gas opportunities manifest themselves as the result of in depth geologic studies. I once had an exploration manager announce during a price downturn that we were going to focus on field studies of our producing areas, that “the best place to find oil was where it had already been found.” Cumulative production for Osage County is 931,471,481 BO and 240,773,372 MCFG. If we could find only 5% of historic production through enhanced recovery, attic oil deposits or new techniques, that would be of 46,573,574 BO, a worthy target by any standard.

We will look at re-entry and recompletion of the large population of abandoned orphan wellbores (estimated at several thousand) as well

as potential from prematurely abandoned wellbores of past price drops, the importance of recording and reporting water production not only as a tool for targeting enhanced recovery and a clue for attic oil accumulations but also for the possibility of revenue from trace elements in the water. We need to look both above and below the current or traditional producing horizons for new targets and we need to avoid digital blindness, there is a wealth of information that can assist in the search for new hydrocarbons.

01:45 pm – 02:15 pm

“Application of the National Environmental Policy Act to the Osage Mineral Estate”

Fred Storer, P.E. – Hydration Engineering, PLLC

This presentation explains the history and relevance of the National Environmental Policy Act and its application, or lack of application, to the Osage Oil and Gas business. The appropriateness of the July 15 BIA letter giving notice that Environmental Assessments will be required for future drilling permits is discussed. Alternatives are considered for NEPA compliance and accommodation in the regulatory system.

02:15 pm – 02:45 pm

Networking Break (*Crystal Ballroom Foyer*)

02:45 pm – 03:00 pm

“Federal Energy Regulatory Commission (FERC) Pipeline Infrastructure and Getting Osage Gas to the Interstate Market”

Berne Mosley – Energy Projects Consulting, LLC

When natural gas flows across state lines, and is transported in interstate commerce, it becomes subject to the regulation and oversight of the Federal Energy Regulatory Commission (FERC). Mr. Berne Mosley, President of Energy Projects Consulting, LLC, will give a presentation on the Federal approval process required to transport natural gas from production areas in the Osage lands to markets in different parts of the country.

03:00 pm – 03:30 pm

“Osage Operators Environmental Reference Manual”

Willie Lane – U.S. Environmental Protection Agency (EPA), Region 6

In 1997, the Environmental Protection Agency (EPA), the Osage Minerals Council and the Bureau of Indian Affairs (BIA) worked with interested parties to develop the original Osage Operator’s Environmental Reference Manual County to assist with compliance of environmental laws and regulations. The manual attempted to provide a clear language interpretation of the regulations and discussed appropriate management practices for oil and gas operations within Osage County. In 2013, the cooperating agencies agreed to undertake an update of the 1997 manual by a process that included numerous public meetings for stakeholder and public input. This manual update incorporates regulatory changes resulting from changes in the law

since the original manual was developed and includes updated management practice technologies. EPA and BIA revised and updated the manual in conjunction with the Osage Minerals Council and Osage Nation representatives and a final draft was presented in July 2014. There was an intent to incorporate updates as a result of newly issued BIA regulations prior to finalization, but numerous legal challenges to those regulations have put that work on hold pending resolution of the challenges.

03:30 pm – 04:00 pm

“Energy and the Oklahoma Economy”

Russell Evans, Ph.D. – Steven C. Agee Economic Research and Policy Institute, Oklahoma City University

Oklahoma’s oil and gas industry remains the state’s defining industry exerting an almost singular influence on the state economic activity. While the industry is important to the economy statewide, the impact of a sustained low commodity price environment will hit some areas of the state harder than others. This presentation will highlight the relationship between the industry and the economy generally before turning to a focus on the effects of short run structural influences versus long run geographic influences in determining the location of economic activity in the state. Finally, we’ll discuss the challenges in creating effective regional policy in the industry.

04:00 pm – 04:30 pm

“State of the Mineral Estate”

Everett Waller, Chairman – Osage Minerals Council

04:30 pm – 05:00 pm

“Panel Discussion and/or Additional Question & Answer Session”

Moderator: Berne Mosley – Energy Projects Consulting, LLC

05:00 pm – 07:00 pm

Exhibitor Tear-down

Hosted By:
**Osage Minerals Council and
Osage Oil & Gas Summit Steering Committee**
(918) 287-5447

Planned and Produced By:
Lane Torix, Inc.
Public Affairs | Strategic Events
(202) 527-5137



SPEAKER BIOGRAPHIES

Bob Blackburn, Ph.D. – Oklahoma Historical Society – Oklahoma City, Oklahoma

Dr. Bob L. Blackburn, a native Oklahoman, has served as Executive Director of the Oklahoma Historical Society since 1999. He joined the OHS in 1980 as editor of *The Chronicles of Oklahoma* and became deputy director for agency operations in 1989. He earned his M.A. and Ph.D. in History from Oklahoma State University. Bob published several articles and his first book while still in graduate school, and has since written or co-authored 18 books and numerous articles, journal entries, and screen plays. He is a steady source of historical information to the media, and he has appeared numerous times on the History Channel. He was instrumental in planning and building the Oklahoma History Center, a 215,000 square foot museum and research center with a budget of \$61 million. Bob has served on numerous national and regional boards and committees, including the Western History Association, the Oklahoma Association of Professional Historians, the AIA, and Leadership Oklahoma City. His hobbies are reading, running, carpentry, landscaping, and golf. Bob is married to former State Representative Debbie Blackburn and they have one son, Beau, who is a professional photographer in Denver, Colorado.

Cardott, Brian J. – Oklahoma Geological Survey – Norman, Oklahoma

Mr. Cardott has a B.S. in Geology from the University of Illinois at Urbana (1977);
M.S. in Geology (specialty area in coal petrology) from Southern Illinois University at Carbondale (1981).

Recent Experience: Organic petrologist and coal geologist at the Oklahoma Geological Survey (1981-present). His research involves coal, coalbed methane, gas shales, tight oil, unconventional energy resources, hydrocarbon source rocks, solid hydrocarbons, organic weathering, and graptolite reflectance.

Evans, Russell, Ph.D. – Oklahoma City University – Edmond, Oklahoma

Russell Evans is the Executive Director of the Steven C. Agee Economic Research and Policy Institute at Oklahoma City University. Dr. Evans specializes in regional economic forecasting and public policy analysis, leading a research staff whose work is regularly recognized for its contribution to public discussion in both local and national media markets. Dr. Evans enjoys being in the classroom and has enjoyed opportunities to offer classes at Oklahoma City University, The University of Central Oklahoma, The University of Tulsa, and Oklahoma State University. Dr. Evans co-founded the Economic Impact Group in 2005, an Oklahoma City based consulting firm and served as the Director of the Center for Applied Economic Research at Oklahoma State University from 2009 to 2011, before moving to Oklahoma City University. Dr. Evans is a member of the American Economic Association, the Missouri Valley Economic Association, and the National Association for Business Economics.

Lane, Willie – U.S. Environmental Protection Agency, Region 6 – Dallas, Texas

Willie currently serves as the Chief of the Water Resources Section in the Compliance Assurance and Enforcement Divisions of EPA Region 6 located in Dallas, TX. He has been in this position for five years and prior to that he served as the Chief, NPDES Permits Section for seven years. Willie has a MS degree in Land and Water Resource Management from the University of North Texas and his BS degree in biology and chemistry from the University of Houston.



Matson, Shane – Bandolier Energy, LLC – Tulsa, Oklahoma

Shane E. Matson is the President of Bandolier Energy LLC in Tulsa, OK. Born and raised by and around good people in Tulsa, OK, Matson grew up on the oil fields of northeastern Oklahoma. He received his B.S. Geology and M.S. Geology from the University of Arkansas, Fayetteville. In 2003 Matson returned to Tulsa and began work for Ceja Corporation and a recently initiated horizontal drilling program of Mississippian tripolitic reservoirs of the Highway 60 trend in Osage County, OK. Over the past 12 years Matson has worked with some of the brightest and experienced minds in the Mid-Continent region. His interests are broad and span from play concepts and technical characterization of reservoir systems to information collaborations to the structuring of play partnerships. There is no aspect of the business that he does not find fascinating. In 2014 he put together a partnership to form Bandolier Energy LLC with the intent of continuing horizontal and vertical exploration and development of Paleozoic reservoirs of Osage County, OK, a highly productive terrain known for stacked pay potential. Utilizing 3D seismic volumes and integration of data from over 120 years of exploration there is much more oil to be exploited from the mineral estate of the Osage.

Middick, Andy – BEACON Environmental Assistance Corporation – Edmond, Oklahoma

Mr. Middick is an environmental consultant with BEACON Environmental Assistance Corporation in Edmond, OK. Mr. Middick primarily works in obtaining permitting and clearances for oil and gas development throughout the southwest United States. His specializes in dealing with the federally listed endangered American Burying Beetle (ABB) in Oklahoma, and is a U.S. Fish and Wildlife Section 10 permit holder for conducting ABB surveys with extensive experience in Osage County ABBs. Mr. Middick has also authored Environmental Assessments for oil and gas developments in Osage County for obtaining necessary BIA permits.

Mosely, Berne – Energy Projects Consulting, LLC – Arlington, Virginia

Mr. Mosley is the President of Energy Projects Consulting, LLC, a firm that advises clients on the various aspects involved with siting energy infrastructure projects.

Previously, Mr. Mosley worked for the Federal Energy Regulatory Commission for 28 years, with his last position held being the Deputy Director of FERC's Office of Energy Projects. This Office is responsible for processing applications for the construction and operation of natural gas pipeline, storage and LNG facilities, as well as hydroelectric projects.

Murray, Kyle – Oklahoma Geological Survey – Norman, Oklahoma

Dr. Kyle E. Murray has served as the Hydrogeologist for the Oklahoma Geological Survey (OGS) since 2011. Dr. Murray supervises undergraduate and graduate research projects involving geology, hydrogeology, and petroleum geology for the ConocoPhillips School of Geology and Geophysics at the University of Oklahoma (OU). His research emphasis at OGS and OU is on the interplay between water and energy resources.

Peterson, Kristine – Laramide Geosciences, LLC – Littleton, Colorado

Ms. Peterson is the founding member and sole owner of Laramide Geosciences LLC, a geologic consulting, prospect generation and research company. Laramide assists clients in prospect generation, due diligence, development and property acquisition and reserve analysis as well as generating plays and prospects for industry placement. Ms. Peterson has 38 years of experience in the oil and gas industry. She has unconventional and CBM experience and contracted and performed a study of Coalbed Methane on the Osage Mineral Estate for the Osage Mineral Council in 1996. She has project experience in many U.S. basins and international experience in Canada, Central America and Africa. These projects have generated numerous successful fields. She was the



lead editor for the Rocky Mountain Association of Geologists monthly publication, Outcrop for over ten years, also editing a Guidebook on the Piceance Basin.

Rottmann, Kurt – Consultant Geologist, Geocomp Energy

Stark, Stephen – Stark & Associates, Inc. – Tulsa, Oklahoma

Stephen T. (Steve) Stark is an independent advisor, consultant, coach and teacher with over 35 years' experience in measuring natural gas, crude oil, and hydrocarbon liquids. Before forming Stark & Associates, Inc. in 1997, he was Manager of Measurement Technology with Williams Energy having previously managed the Measurement Department for Williams Natural Gas Company. In the 1980's, he worked for Phillips Petroleum Company in the Corporate Engineering Fluid Measurement Group at their headquarters in Bartlesville, Oklahoma. Before that, Steve was a field measurement technician with Transok Pipeline Company and event earlier worked as a Rigger with Jetco, Inc., a perforating and logging company located in Oklahoma City, Oklahoma.

Steve has served on numerous oil and gas measurement standards-writing committees including those of the American Petroleum Institute (API), the American Gas Association (AGA), and the Gas Processors Association (GPA). He has been directly involved in writing many of the measurement standards in use today, now serving mainly on various API committees.

He has chaired activities of the Southern Gas Association and Gas Research Institute and served on the Board of Trustees and General Committee of the International School of Hydrocarbon Measurement (ISHM) where he founded and was the first Chairman of the ISHM Scholarship Fund in 1997. He currently serves as an ISHM Principal Advisor and teaches most years during the ISHM Annual Conference.

Storer, Fred P.E. – Hydration Engineering, PLLC – Bartlesville, Oklahoma

Fred Storer is a professional engineer associated with the Bartlesville firm Hydration Engineering. Fred had a varied international career with Phillips Petroleum involving engineering, environment, gas, refining, plastics, uranium, synthetic fuels, LNG, and project development. Fred received engineering degrees from Oklahoma State and for the last two years has been an active participant in Osage oil and gas environmental issues.

OSAGE DRUM AND SINGERS

BigHorse, Mary
BigHorse, Norris
BigHorse, Scott
BigHorse, Vann
Butler, John David
Daniels, Danett
Kimball, Andrea
Redcorn, Talee

Osage Princess, Miss Kimball

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