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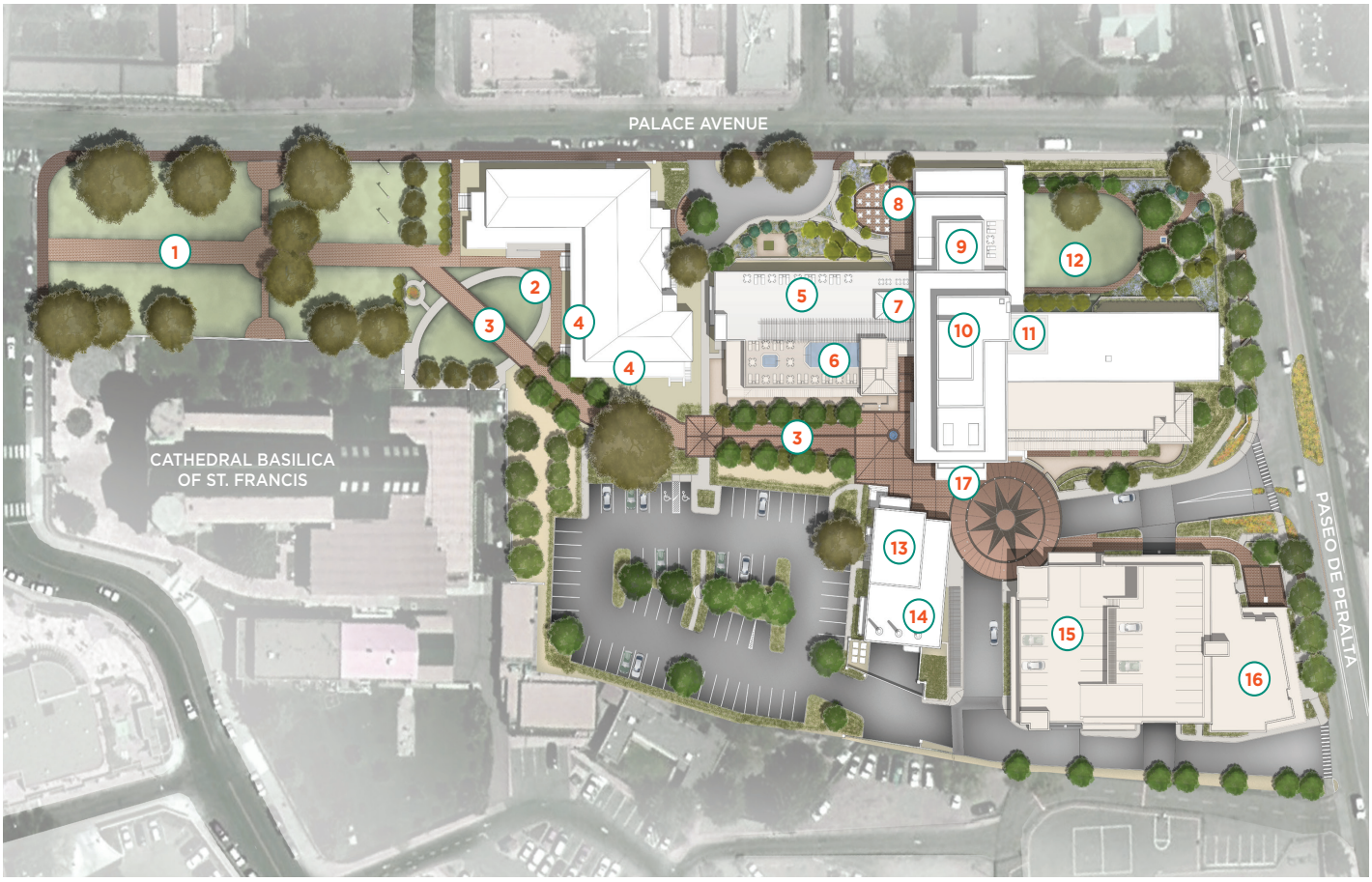

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15. PARKING GARAGE
16. O'KEEFFE ROOM
17. HOTEL ENTRANCE

Convention Schedule

MONDAY - JUNE 12

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8:30 A.M. - 4:30 P.M. - Registration - Lamy Foyer - 13

8:30 A.M.- 10:00 A.M. - Chapter Chairmen's Meeting - Palace B - 9

9:00 A.M. - 10:00 A.M. - SIPES Foundation BOD Meeting - Meem - 14

10:00 A.M. - 11:30 A.M. - SIPES Presidents' Council Meeting - Palace B - 9

1:00 P.M. - 2:00 P.M. - SIPES BOD Meeting - Palace B - 9

12:00 P.M. - 1:00 P.M. - Lunch for BOD, Chapter Chairmen, & Past Presidents - Garden - 12

3:00 P.M. - 5:00 P.M. - SIPES Foundation Seminar - Lamy - 13

6:00 P.M. - 8:00 P.M. - Icebreaker - Garden -12

Convention schedule

TUESDAY - JUNE 13

8:00 A.M. - 4:00 P.M. - Registration - Lamy Foyer -13

8:00 A.M. - 11:45 A.M. - Technical Sessions - Lamy - 13

12:00 P.M. - 1:30 P.M. - All-Convention Luncheon & Annual Business Meeting - Palace A - 9

2:00 P.M. - 3:00 P.M. - The Prospect Discovery Room - Rivera Ballroom - 11

3:00 P.M. - 4:00 P.M. - Georgia O'Keefe Museum & Archive guided tour - Hotel Lobby - 17

3:00 P.M. - 5:00 P.M. - Santa Fe School of Cooking Classes - Hotel Lobby - 17

4:00 P.M. - 5:00 P.M. - New Mexico State Capitol Guided Tour - Hotel Lobby - 17

6:30 P.M. - 9:30 P.M - SIPES Awards Banquet - Palace A - 9

WEDNESDAY - JUNE 14

8:00 A.M. - 12:00 P.M. - Registration - Lamy Foyer -13

8:00 A.M. - 11:00 A.M. - Technical Sessions - Lamy -13

11:05 A.M. - 12:05 P.M. - Ethics Course - Lamy -13

12:00 P.M. - 3:00 P.M. - The Prospect Discovery Room - Rivera Ballroom - 11

2:00 P.M. - 6:00 P.M. - Ghost Ranch Paleontology Guided Tour - Hotel Lobby - 17

3:00 P.M. - 4:00 P.M. - Georgia O'Keefe Museum & Archive guided tour - Hotel Lobby - 17

3:00 P.M. - 5:00 P.M. - Santa Fe School of Cooking Classes - Hotel Lobby - 17

4:00 P.M. - 5:00 P.M. - New Mexico State Capitol Guided Tour - Hotel Lobby - 17

6:30P.M. - 9:00 P.M. - Cornerstone Group Reception (*by invitation only*)

THURSDAY - JUNE 15

7:30 A.M. - 5:30 P.M. - Post-Convention Field Trip to Jemez Mts/Valles caldera - Hotel Lobby - 17

Please note: The SIPES Registration Desk will close at 4:30 p.m. on Monday. If you are arriving at the hotel after that time, please advise Victoria Mowery via email or phone: victoria@sipes.org or 979-574-9978

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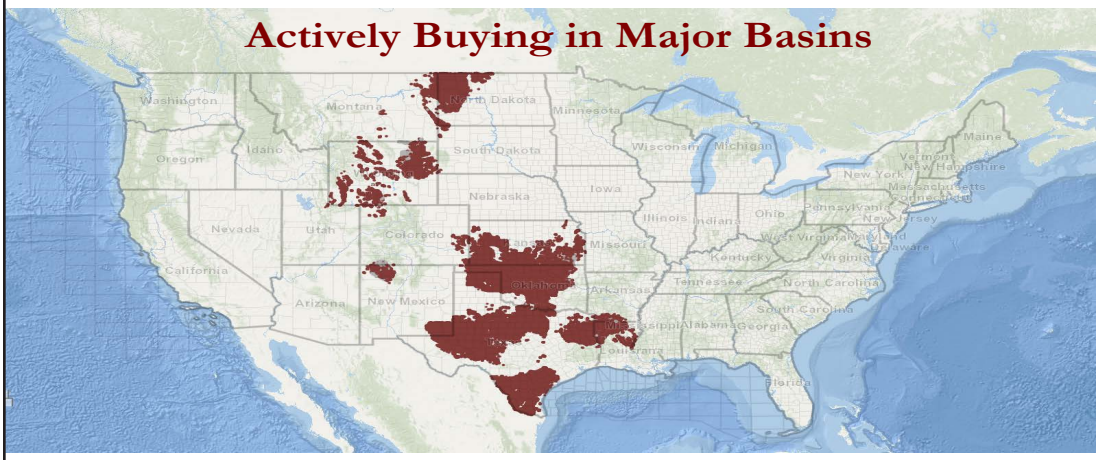

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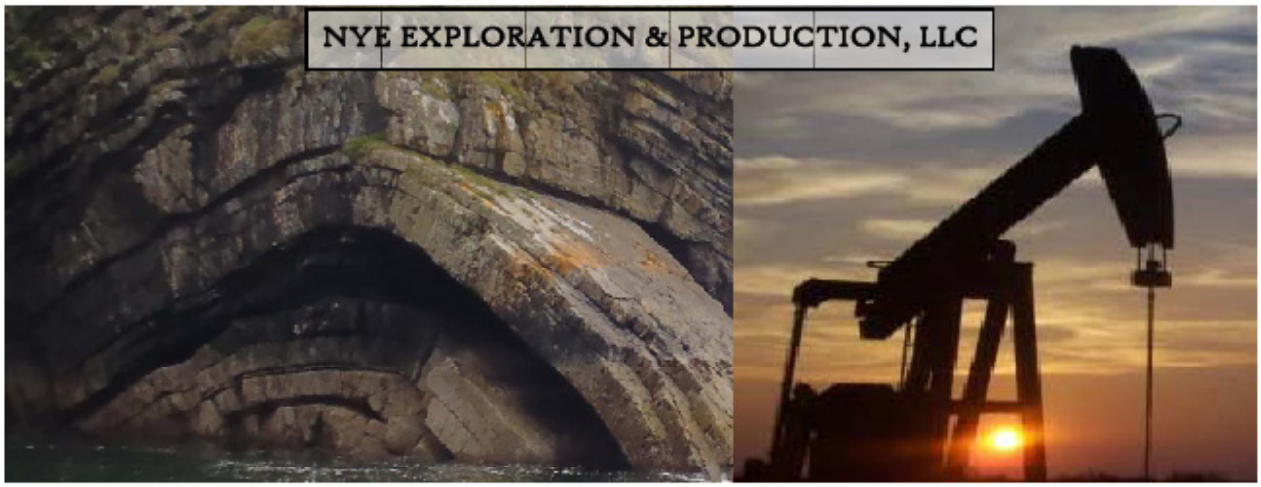

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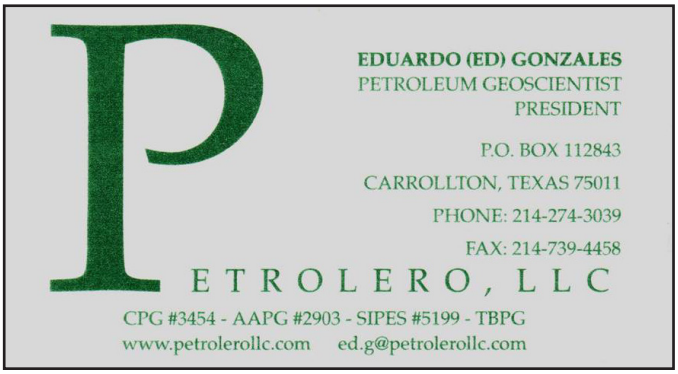
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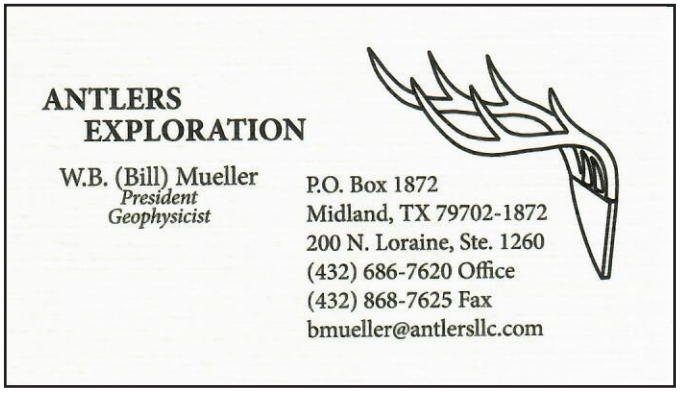
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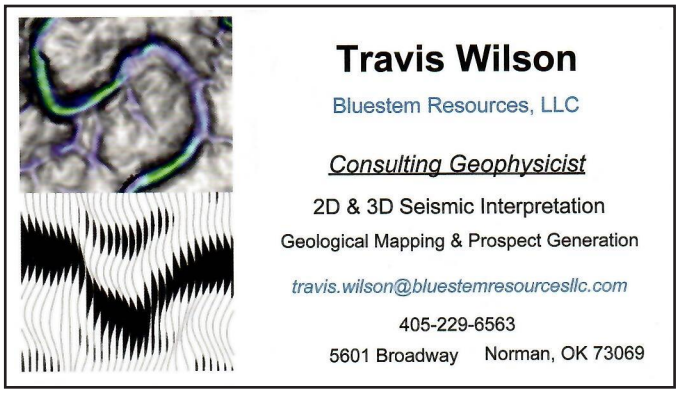
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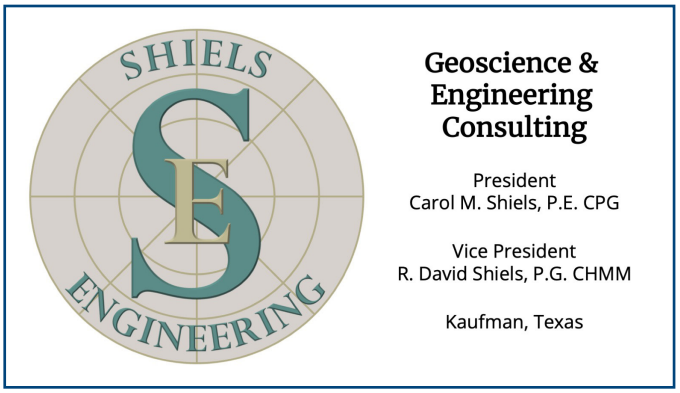
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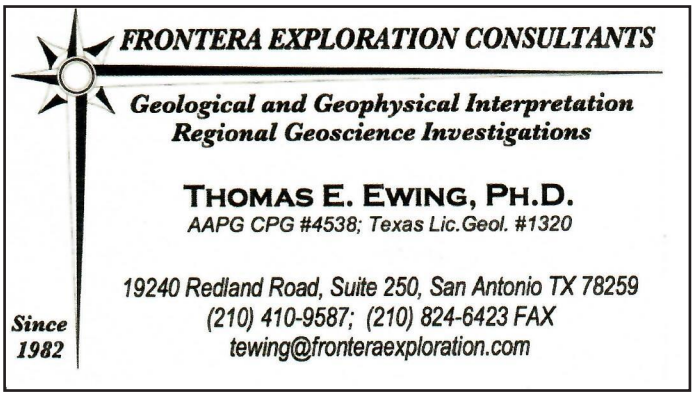
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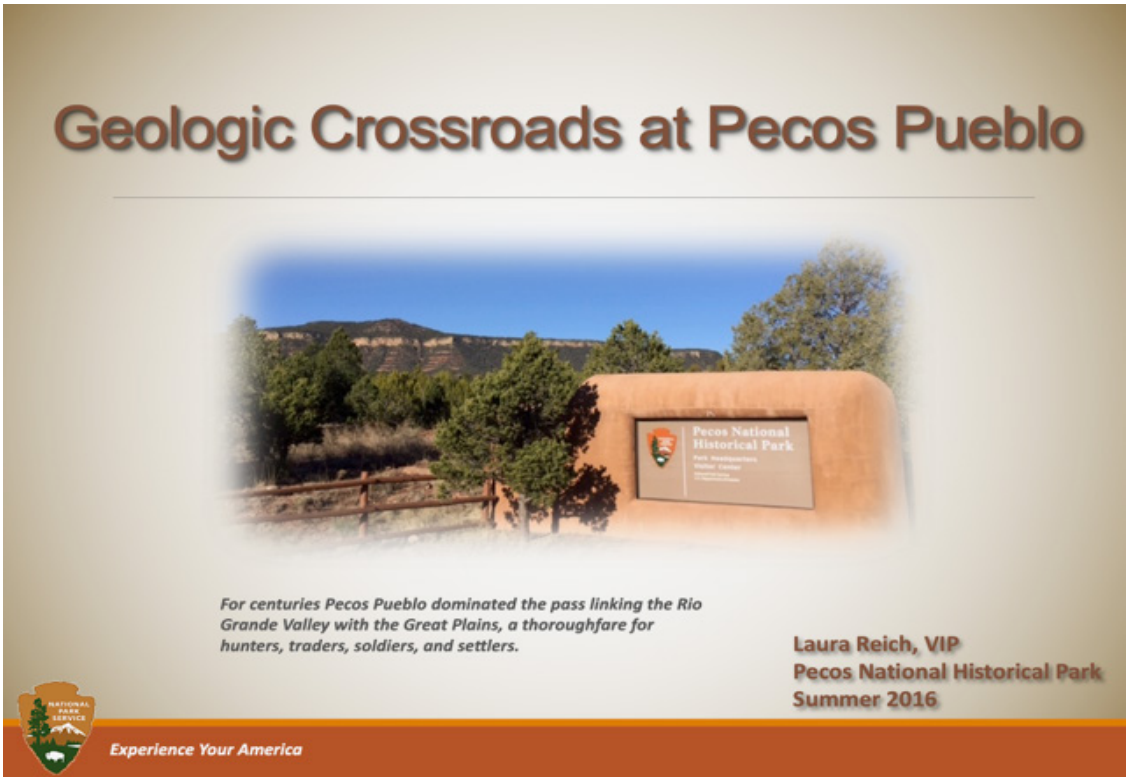

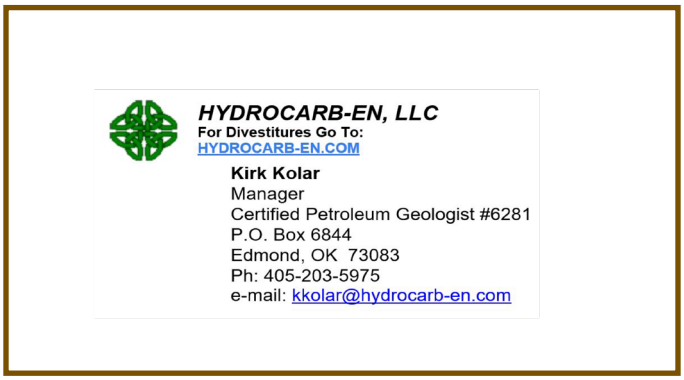
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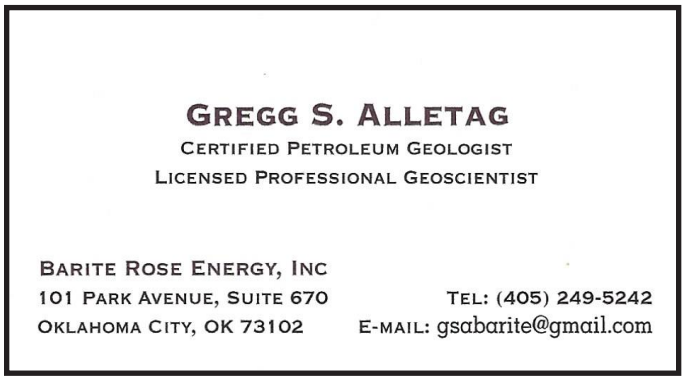
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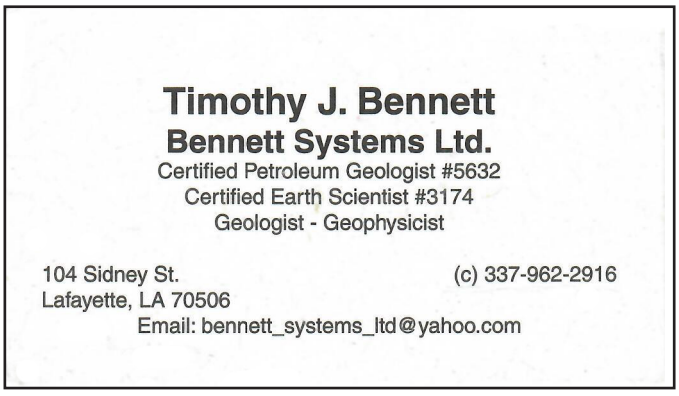
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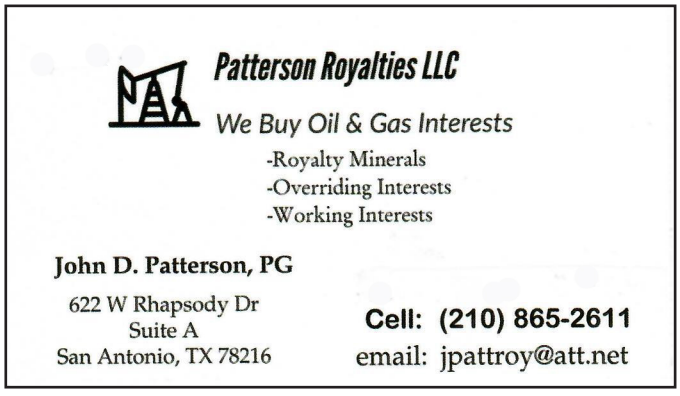
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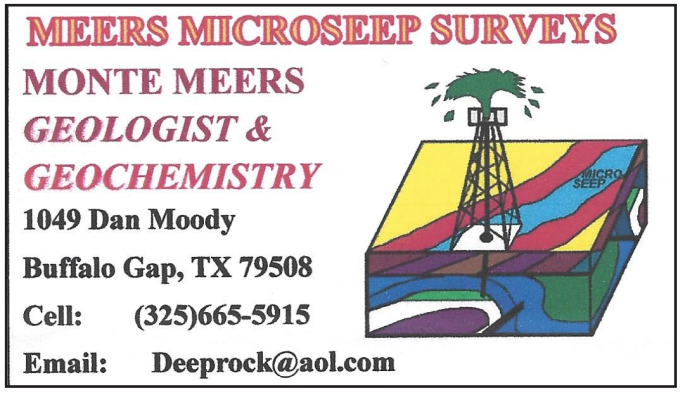
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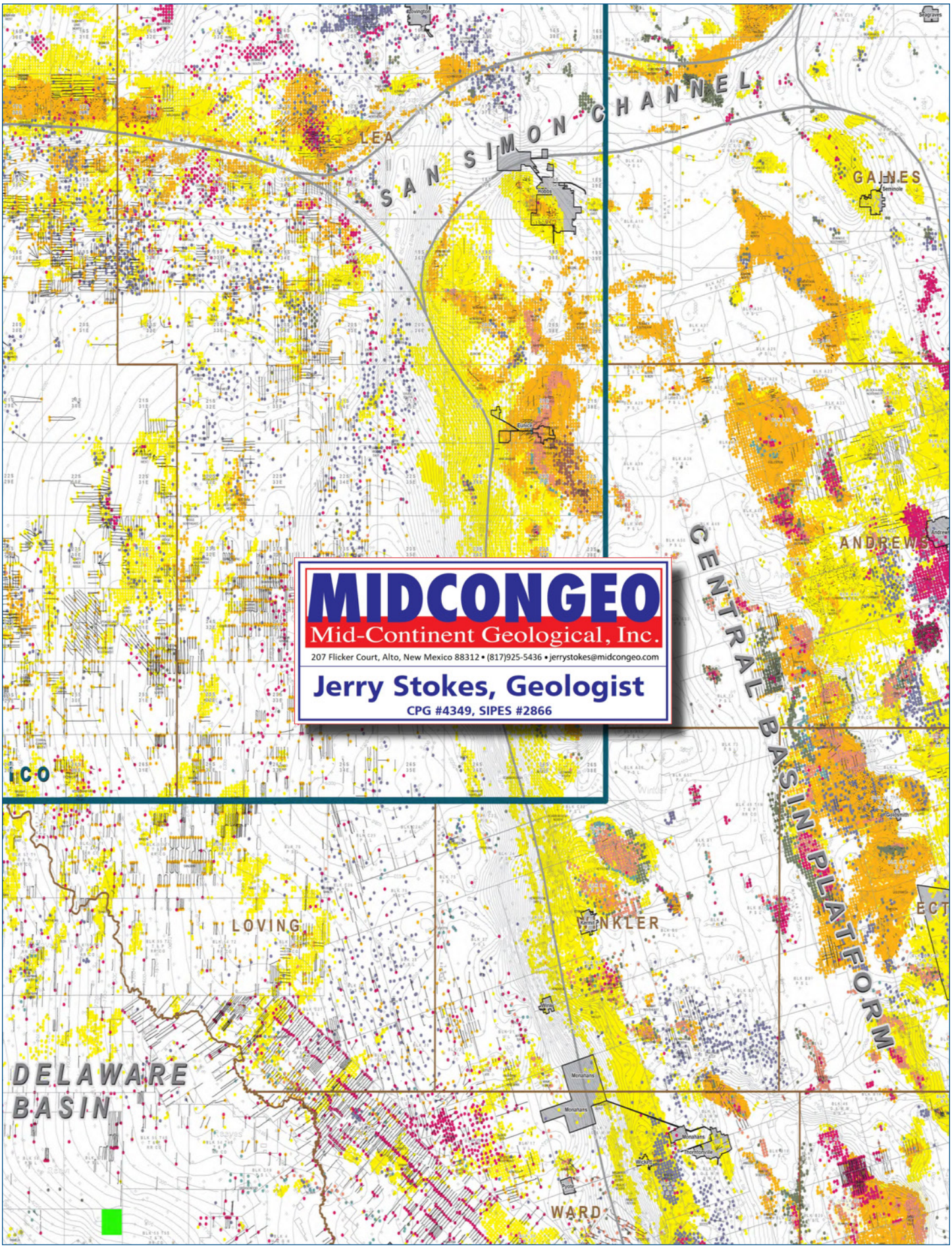
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Technical Program

TUESDAY, JUNE 13TH

8:15A.M. - 8:30P.M. - GREGG ALLETAG
Opening comments

8:30AM – 9:05AM GREG RIEPL, #2322 - CONSULTING GEOLOGIST, OKLAHOMA CITY, OK

"Mississippian Limestone of North Central Oklahoma – Conventional, Unconventional or Both"

9:05AM – 9:40AM RANDY BISSELL, #3547 - HEADINGTON ENERGY PARTNERS, CORPUS CHRISTI, TX

"Relationship between Oligocene Volcanics of New Mexico and Oligocene Oil & Gas Frio/Vicksburg Sands of South Texas"

9:40AM – 10:15AM JOHN SMITHERMAN - SENIOR ADVISOR, FORT WORTH, TEXAS
"New Challenges and Opportunities in the Land of Enchantment"

10:15AM – 10:30AM BREAK

10:30AM – 11:05AM SAMMY GRAHAM - CUDD ENERGY SERVICES, OKLAHOMA CITY, OKLAHOMA

"Hydraulic Fracturing"

11:05AM – 11:40AM ROBERT LINDSAY, #3605 - LINDSAY CONSULTING LLC & AND AFFILIATED PROFESSOR, MIDLAND, TEXAS

"Evolution of Residual Oil Zones (ROZ) in the Permian"

12:00PM – 1:30PM LUNCHEON: STEVE WYETT - CHIEF INVESTMENT STRATEGIST, BOK, TULSA, OKLAHOMA

Technical Program

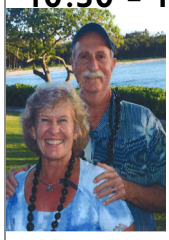
WEDNESDAY - JUNE 14

8:30AM – 9:05AM JOE BREVETTI, CHARTER OAK PRODUCTION, OKLAHOMA CITY, OKLAHOMA
"BUDGET CONSCIOUS HORIZONTALS IN THE BIG LIME-OSWEGO "

9:05AM – 9:40AM DEBORAH SACREY, #1271 - AUBURN ENERGY, WEIMAR, TEXAS
"PARADISE MACHINE LEARNING TECHNOLOGY-UNDERSTANDING THE SUB-SURFACE IN DETAIL"

9:40 – 10:15 AM KIRK KOLAR, # 3343 - DKT ENERGY, LLC & HYDROCARB-EN, LLC, OKLAHOMA CITY, OK
"FROM SOONER TREND TO STACK"

10:15 – 10:30 AM BREAK



10:30 – 11:05 AM FRAZER GOFF - EARTH SCIENTIST, LOS ALAMOS, NEW MEXICO
"THE VALLES CALDERA: NEW MEXICO'S SUPERVOLCANO"

11:05AM – 12:05 PM JOHN JORDAN, JR., #3590 - JORDAN CONSULTING, HOUSTON, TEXAS
"ETHICS COURSE – GREY AREAS: INTERACTIVE APPLICATION OF BUSINESS ETHICS IN THE GEOSCIENCE PROFESSION"

Abstracts & Speaker Biographies

Randy Bissell, #3547: Relationship between Oligocene Volcanics of New Mexico and the Oligocene Sands of South Texas

Exploration in the Oligocene of South Texas often results in encountering high gamma ray sands with hydrocarbon shows. Thin hot gamma sands are known to occasionally produce in deep South Texas, however, they are unreliable and serendipitous targets. Exceptions to this characterization have been found in wells drilled more basinward, where at Cadre Field in Hidalgo Co., the so-named 120 ft. thick Ash Sand at 14225 ft. md, is an important Lower Oligocene-aged pay in this 100+ BCF field. Twenty miles north of Cadre, a recent deep exploration well in Kenedy County encountered a similarly thick and apparently productive "Ash Sand." Samples of the Ash Sand were recovered in completion operations and analyzed for mineralogy, texture, porosity, and permeability, as a potential reservoir. In order to further explore for these units, their occurrence needs better understanding. How might these thick volcanic sediments be preserved in the Oligocene of South Texas? What is their origin? What diagenesis might be expected? Are they viable objectives? The ancient Oligocene volcanos along the Rio Grande Valley in New Mexico might hold the answer. Consideration of the prolific volcanism in New Mexico and the voluminous sediments choking the ancestral Rio Grande River and embayed deltaic system provide insight into a better understanding for future exploration of Ash Sands in the Frio/Vicksburg Trend of South Texas.

Randy Bissell is a partner and the Geoscience Advisor to Headington Energy Partners with nearly 40 years of experience. He presently explores major ranches in South Texas. A native of Mississippi, he attended the University of Southern Mississippi for his bachelor's degree then worked briefly for the USGS. After completing his M.S. at Oklahoma State, Randy started his oil & gas career with Exxon in South Texas, then joined Headington over 20 years ago. He's also taught Earth History at Texas A & M Corpus Christi as an adjunct professor, where he advises graduate student projects today. Randy is a Texas Master Naturalist involved in his community as an earth science educator and State Park volunteer.

Joe Brevetti, Budget Conscious Horizontals in the Big Lime – Oswego. This presentation covers the integration of geology, geophysics, petrophysics, and all engineering disciplines (reservoir, drilling and completion) to improve the production and lower the cost of laterals in a shallow high porosity/low permeability oolitic carbonate in North Central Oklahoma. Mud logs and thru-casing porosity logs are correlated with oil production per stage from tracer analysis. Several unique practices are utilized to control drilling and completion cost while improving production. Future unitization for enhanced recovery is addressed.

Joe earned his Bachelor of Science, Physics from Rensselaer Polytechnic Institute, in Troy, New York and his Master of Science, Petroleum Engineering from University of Oklahoma, in Norman, Oklahoma. He is a Registered Professional Engineer in the State of Oklahoma. He is a Former Adjunct Professor in Petroleum Engineering Department, College of Engineering at the University of Oklahoma, Norman, Oklahoma. Joe has been a managing member of Charter Oak Production Co., LLC since August 2004. His duties include managing all aspects of oil and gas operations, prospect, and property evaluation for independent exploration and development. Charter Oak presently operates over 200 wells in Oklahoma and Texas, with about 160 being organic new drills and the other wells being acquisitions. In addition to well operations, as part of its business model, Charter Oak has closed more than a dozen sales of acreage rights to public companies totaling more than 80,000 acres of leasehold valued in excess of $300MM. Charter Oak currently has one drilling rig and 2 WO rigs active in the Mid-Con. In 2022 Charter Oak drilled 10 wells, placing in the top 20 new well drillers in Oklahoma with 8 wells being 2 miles or longer. Four of these laterals were 3 miles in length, a record for the State of Oklahoma. From January 1976 to August 2004 he served in a variety of capacities for Schlumberger Oilfield Services, including Field Engineer, District Operations Management, Sales, and Development Engineering in numerous locations in South Texas, Gulf Coast, Rocky Mountain and Mid-Continent areas. His professional affiliations include Society of Petroleum Engineers (SPE), Society of Professional Well Log Analysts (SPWLA), Oklahoma City Geological Society (OCGS), The Petroleum Alliance of Oklahoma Board Member, Oklahoma Energy Resources Board (OERB) Member, Sustaining Oklahoma Energy Resources (SOER) Committee Chair,
Oklahoma Energy Explorers (OEE) Member, Acquisitions, Divestitures and Mergers (ADAM) Member. Joe's publications include "Comparison of Core and Formation Images in the Hunton Formation", AAPG Poster Session, First Place, AAPG Regional Meeting, Oklahoma City, May 1993, "Application of Rock Stress in Hydraulic Stimulation", SPE Production Operations Symposium, April 1991, "Evaluation of Fractured Carbonates in the Mid-Continent Region", SPWLA Annual Logging Symposium, June 1985.

Abstracts & Speaker Biographies

Frazer Goff: Fraser Goff received his B.S. in chemistry from San Jose State College (1971) and his Ph.D. in earth science from the University of California, Santa Cruz (1977). He was employed by Los Alamos National Laboratory (1978) to conduct geothermal energy and volcanology research. A Fellow of the Geological Society of America (1990), Goff retired from the Geology/Geochemistry Group at LANL in 2004 after 26 years of service. He became Adjunct Professor at the University of New Mexico in 1992 and New Mexico Tech in 2013. Goff worked on more than 40 geothermal systems and 15 active volcanoes during his LANL career. Since 2004 he has been a geologic consultant and has worked on the State Map Program for the New Mexico Bureau of Geology and Mineral Resources.

Sammy Graham: Hydraulic Fracturing 101!

Current hydraulic fracturing logistics, equipment advances and misc. information.

Sammy Graham is an executive account manager with Cudd Energy Services in Oklahoma City. He has over 45 years of experience in the area of hydraulic fracturing. He began his career with The Western Company of North America in 1977. He later worked for BJ Services and Baker Hughes, in operations and sales positions throughout Rockies and Mid-Continent regions. He is an active member with AADE, API, IADC and SPE Oklahoma City Chapters currently serving on various committees. Sammy holds a BSBA from Henderson State College, Arkadelphia, Arkansas and Petroleum Technology Degree from Oklahoma State University.

Kirk Kolar, # 3343: "From Sooner Trend to Stack"
The area formerly known as the "Sooner Trend" was and is an area of rich oil and gas reserves trending through Canadian, Kingfisher, and Blaine Counties of Oklahoma. Then in 2012 Newfield came out with a report to investors applying an additional name to the area, and the "Stack" was born. This brief presentation follows the area from an operator's paradise in the boom the early 1980s to an excellent resource play with multiple stacked zones waiting to give up excellent repeatable oil and gas horizontal wells. The Stack play is still active today with numerous horizontal wells producing from the Hunton Limestone, the Woodford Shale, the Mississippi Osage, the Mississippi Solid, and the Mississippi Meramec. All together known as the "Stacked Intervals".

Bio:
Kirk Kolar has 43 years of onshore industry experience. He has expertise in exploration, production and operations throughout the Mid Continent and Permian Basin. Kirk is the owner of DKT Energy, LLC & Hydrocarb-En, LLC which is a consulting, production and operating company. He previously was a partner in Payrock Energy, LLC; consultant for Shell Oil on their 600,000-acre Kansas Mississippian project, and a senior geologist with SandRidge. He has primarily been an active independent petroleum and environmental geologist throughout his career.
Kirk has been an AAPG member since 1979 and is a Registered Environmental Manager. Kirk received his B.S. from the University of Oklahoma in 1983.

Dr Robert Lindsay, #3605: Evolution of Residual Oil Zones (ROZ's) in the Permian Basin

Residual oil zones (ROZ'S) are widespread in the Permian Basin & are the result of multiple episodes of diagenetic modifications to reservoirs by the introduction of massive volumes of meteoric recharge into the basin. In the Late Eocene-Early Miocene (40-16 Ma) western North America experienced uplift as the Southern Rocky Mountain Epeirogen (SRME) formed, which uplifted the western half of the Permian Basin to form a massive meteoric recharge area that extended to present-day Rio Grande River. Uplift was created by emplacement of igneous intrusive & extrusive bodies to form the Trans Pecos Magmatic Province. Additional intrusive bodies em placed & uplifted the entire length of western North America. Meteoric water, heated as it passed intrusive bodies, created hot, high pressure, high volume meteoric recharge into the subsurface through porosity fairways in ramp/shelf margins. Meteoric recharge created a large hydraulic head of energy, capable of sweeping mobile oil out of structural closures and reducing oil saturation to a residual oil zone (ROZ) by mother-natures-waterflood. Later, meteoric recharge was drastically reduced following development of the Rio Grande Rift in the Middle-Late Miocene (16-5 Ma), which down faulted and destroyed the large recharge area. This resulted in cool, low pressure, low volume meteoric recharge into the subsurface from isolated, small mountain ranges. As energy dissipated, previously swept reservoirs within structural closures that contain a ROZ were able to back fill and resaturate partially to completely with mobile oil. In one reservoir the ROZ did not resaturate with mobile oil and remained a ROZ. In another reservoir the ROZ resaturated with gas instead of oil. As mobile oil partially back filled and resaturated a reservoir with mobile oil the underlying ROZ was slightly back filled and resaturated with mobile oil. This explains why ROZ plays exist in the Permian Basin. *(continued)*

A ROZ can be subdivided into an upper ROZ that is potentially productive and a lower ROZ that remains a ROZ. Two examples of ROZ's on the Central Basin Platform (CBP) are: 1) Eunice Monument South Unit (northwest corner CBP) that was completely swept of mobile oil to form a ROZ and later back filled and partially resaturated with mobile oil and left a ROZ at the base of the reservoir; and 2) McElroy field (southeast margin CBP) that was also completely swept of mobile oil to form a ROZ and later completely back filled and resaturated the entire oil column with mobile oil and left no ROZ behind. Evidence for these two reservoirs and other reservoirs being completely swept of mobile oil is from detailed reservoir characterization that utilized: 1) numerous core descriptions; 2) thin section petrography of thousands thin sections; 3) cathodoluminescence of thin sections; and 4) fluid inclusion data. Core descriptions and thin section petrography data revealed: Dissolution porosity composed of moldic, micro-vugular, and vugular pores, dissolution pores filled with geopetal, dissolution pores lined with late-stage limpid dolomite, solution-widened fractures, solution-widened fractures cemented by gypsum that contains oil inclusions, solution-widened fractures cemented by gypsum that underwent additional dissolution and solution-widening of fractures, anhydrite nodules converted to gypsum hydraulically fractured (fracked) surrounding strata vertically by the force of crystallization, dissolution fronts that extend updip of porous flow units into mud-rich strata, anhydrite nodules that underwent dissolution and reprecipitated gypsum and captured abundant oil inclusions to form black gypsum nodules, dolomite crystal cores were dissolved to form "dolo-donuts, most, if not all, dolomite crystals are etched and corroded, dissolution of anhydrite cement freed dolomite crystals and clumps of dolomite crystals to migrate within reservoir pore systems, storm laminae (nicknamed Mambas) form small-scale non-porous baffles-barriers, and transgressive mud-rich bases form large-scale non-porous baffles-barriers.

Cathodoluminescence and fluid inclusion data revealed that original Permian dolomite, referred to as Phase 1 dolomite, underwent dissolution and reprecipitation of two later phases of dolomite, referred to as Phase 2 and Phase 3 dolomite:

- Cathodoluminescence of dolomite crystals that experienced dissolution and reprecipitated revealed a textural appearance that resembles a "shot gun pattern" of alteration.
- Phase 2 dolomite crystal cores contain fluid and hydrocarbon inclusions.
- Phase 2 dolomite crystals are interpreted to represent dissolution and reprecipitation of dolomite crystals as hot, high pressure, high volume meteoric water swept through the reservoir and actively displaced mobile oil.
- Phase 3 dolomite crystals (limpid dolomite) contain fluid inclusions only and surrounds phase 2 dolomite to form a late rhombohedral overgrowth.
- Phase 3 dolomite crystals are interpreted to represent when additional dissolution was followed by reprecipitation of limpid dolomite crystals after the reservoir had been completely swept of mobile oil and was at residual oil saturation to form a ROZ.
- Homogenization temperatures associated with dissolution and reprecipitation of dolomite crystals range from 131 ° -214° (for dolomite crystal cores and 113 ° -224° (for late dolomite crystal overgrowths (limpid dolomite).
- Regional dissolution of dolomite and evaporite strata raised meteoric water to moderate salinity (1.SX sea water) as it displaced mobile oil from CBP reservoirs and continued to push through previously swept CBP reservoirs.
- These two processes were not simple processes, but a series of long-term, highly drawn-out processes that extended over long amounts of time (40-16 Ma).
- Present-day bottom hole temperatures in these reservoirs have re-equilibrated to 37° C.

A simplified exploration/production version of the above data would be:

- Regional uplift
- Meteoric recharge
- Structural closures swept to a ROZ
- Destruction of the recharge area
- Back fill and resaturate reservoirs
- Slightly back fill and resaturate ROZ
- Drill lateral into upper ROZ
- Frack upper ROZ
- Pump off water
- Produce ROZ

Robert Lindsay was born and raised in Utah. He served in the U.S. Army Special Forces. He graduated from: Weber State College in 1974 - B.Sc., Geology, Brigham Young University in 1976 - M.Sc., in Geology, and University of Aberdeen 2014 - Ph.D. in Geology. Bob worked for Gulf Oil from 1976-1985, Chevron from 1985-2001, ChevronTexaco, 2001-2002, and Lindsay Consulting LLC. He has been an affiliated Professor at Brigham Young University since 2015. Bob has served as the Editor for the Oklahoma City Geological Society (1980-1982), Co-chairman and Chairman SEPM Evaporite Research Group (1984-1986), a Committee member for the Michael Kirkendall-Masters thesis, Oklahoma State University (1985), Haas-Pratt Distinguished Lecturer (1993-1994) for the American Association of Petroleum Geologists, President Permian Basin Section of the SEPM (1994-1995), President of the West Texas Geological Society (2000-2001), Executive Committee Member for the Dhahran Geoscience Society (2005-2007), Distinguished Lecturer (2013-2014) for Dhahran Geoscience Society, Secretary of the Society of lndependent Earth Scientists - Midland Chapter SIPES (2023-Present).

Abstracts & Speaker Biographies

Greg Riepl, #2322:" Mississippian Lithology of North Central Oklahoma" The Mississippian Limestone of North Central Oklahoma has been a productive formation for nearly 100 years, although it was rarely a primary objective. More often, it was the bail-out zone for operators when the primary target was missed because everyone understood that it almost always had oil and gas in it. With the onset of the horizontal drilling stampede, it actually became necessary to sit down and do systematic geological analysis to understand how there could be so much oil and gas trapped over such a large area and whether it could be economically produced with horizontal drilling technology. Almost immediately upon starting a regional geologic analysis, it became quite obvious that the Mississippian Limestone deposition was far more complex than I had ever imagined. Rather than being simple "in-situ" carbonate bank limestone, it turned out to be a series of debris flows coming off the carbonate bank to the north. The large area of hydrocarbon entrapment was the result of several intra-formational stratigraphic and structural traps. Now, after several years of having been involved in horizontal drilling plays throughout the Mid-Continent, it has become obvious that most "unconventional" plays are a combination of unconventional and conventional trapping mechanisms working in congress to form the overall resource area.

Greg Riepl has worked the geology of Oklahoma for over 40 years. He graduated with a BS Degree in Geology from Kansas State University in 1979. His first job was as a mud logger in N Dakota, Montana and Wyoming. He worked for Statex Petroleum Inc. from 1980-89 before becoming an Independent Geologist and has experience with vertical and horizontal exploration in Kansas, Texas and Oklahoma

It's not too late!!

Sign up for the post convention field trip to The Valles Caldera: New Mexico's Supervolcano

Led by Fraser and Cathy Goff at the convention registration table.

John Smitherman: New Challenges and Opportunities in the Land of Enchantment

At the request of Governor Michelle Lujan-Grisham, agencies of the State of New Mexico put new regulations in place that will challenge the Oil and Gas Industry to reduce emissions of natural gas, volatile organic compounds (VOCs), and oxides of nitrogen (NOx). The Oil Conservation Division (OCD) established a Waste Rule that limits non-beneficial venting or flaring of natural gas to under 2% of total gas produced or gathered and eliminated "routine flaring" in the state. The New Mexico Environment Department established a companion Ozone Precursor Rule that aims to reduce emissions of VOCs and NOx in an effort to reduce ground-level ozone. Both rules effectively reduce methane emissions, which were the target of the Governor's third executive order signed January 29th, 2019. Successfully operating under these US-leading rules will test the industry but will bolster the industry's social license to operate in the state. Whether the state can maintain its No. 2 standing for oil production in the US will depend on how the industry responds. This presentation will touch on these major rulemakings and other, more minor, new rules that have been put in place over the past 2-3 years.

John Smitherman served in many roles during his 38+ year career with a private O&G firm headquartered in Fort Worth, Texas. He holds a B.S. from the University of Texas at Austin and has worked as an engineer in production and reservoir, manager in operations and drilling, and officer with responsibilities including all operational aspects of the business. In his tenure Mr. Smitherman earned an award from the Bureau of Land Management for establishing a successful conservation program designed to both preserve two vulnerable species and protect responsible oil and gas operations. This program has raised over $40 million through 2022 in conservation funds to be used to support these species. He was also awarded the Director's Excellence Through Leadership Award from the Department of the Interior (Bureau of Land Management) for his efforts to reset the operating rules governing Oil & Gas and Potash mining operations within the federally established Secretarial Order Potash Area in southeast New Mexico. He was selected as a Distinguished Lecturer by the Society of Petroleum Engineers for the 2020-2021 season.
After retiring from the operating company, Mr. Smitherman joined the New Mexico Oil and Gas Association, the largest oil and gas trade association in New Mexico, as a Senior Advisor in 2020. Since that time, he has been focused on regulatory matters related to many of the agencies that have oversight of oil and gas exploration and production in the state.
Mr. Smitherman lives in Fort Worth, Texas with his wife of 40+ years with whom he shares two adult children.

Abstracts & Speaker Biographies

Deborah Sacrey, #1271: Paradise Machine Learning Technology- Understanding the Sub-surface in Detail Multi-attribute machine learning using SOM (which is an unsupervised learning process) can be shown to reveal details in the data not previously identified and which can be interpreted to be lithologic in nature, The detail comes with the statistical analysis of the data based on information on each sample on each trace in the data, The result of this sample-based statistical analysis is that one can interpret thin-bed resolution well below conventional wavelet tuning, This in turn, helps with highly accurate reservoir prediction when one ties the information to existing production or in the estimation of new reserves in exploration plays,
The key to the presentation is showing examples of problems in the every-day interpretation of data which can be solved by the neural analysis {Classification) of multiple seismic attributes, These problems could be reservoir delineation, exploration and exploitation for new reserves, interpretation of complicated stratigraphic sequences, or basic interpretation when the data is less than optimaL Additionally, new deep learning algorithms allow the interpretation of faults in the data without having to manually pick fault segments, This saves an immense amount of time for the interpreter, The fault attribute volume can then be combined with other attributes in the SOM process, The result allows the interpreter to see the faulting and the stratigraphy at the same time, This presentation will highlight the use of SOM in thin bed environments, finding carbonate porosity as well as examples showing the result of SOM coupled with the fault attribute to capture compartmentalization of reservoirs.

Steve Wyett: Chief Investment Strategist, Bank of Oklahoma, Tulsa, Oklahoma

Getting Around Santa Fe

Although Santa Fe is one of America's Top Rated Walking Cities, if you need a ride below are some tips, tricks & handy numbers:

Car Rental in Santa Fe

Avis Rent A Car 505-471-5892 or 1-800-331-1212
Beaver Toyota of Santa Fe 888-852-4406 ext. 195 or 505-982-1200 ext.195
Budget Rent A Car 800-527-0700 or 505-984-1596
Enterprise Rent-A-Car 800-261-7331
Hertz Rent A Car 800-654-3131, 505-438-4650 or Municipal Airport, 505-471-7189

Bus Service

Santa Fe has public transportation called Santa Fe Trails Bus Service. The route map & schedule can be found on the City of Santa Fe's website: santafenm.gov/public-works/transit

Ride-Sharing Service

Uber & Lyft rides can easily be arranged in Santa Fe using their apps.

Downtown Parking

Metered parking spots in downtown Santa Fe cost $2.00 an hour & are in operation from 8 a.m. to 6 p.m. Monday through Saturday,

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Convention Activities & Registered Events

Entrance to Meeting Events

Entrance to all Convention events and tours will be by name badge. Attendees must be registered for the meeting in order to attend the evening icebreaker.

SIPES Member, Associated Member and Non-Member Registration include the following:

- Icebreaker
- Technical Sessions on Tuesday & Wednesday
- All-Convention Luncheon on Tuesday
- SIPES Ethics Course on Wednesday
- Discovery room on Tuesday & Wednesday
- Ability to register for all optional tours and events

Spouse/Guest Registration includes the following::

- Icebreaker
- Ability to register for all optional tours and events

Extra fees are required for the Foundation Seminar, and all optional tours and events, including the Awards Banquet and the Post-Convention Field Trip. Some events may still be available to purchase at a higher rate through the registration desk.

Icebreaker

Monday, June 12 — 6:00 p.m. - 8:00 p.m.

Meet with friends and colleagues while enjoying hors d'oeuvres and drinks at the 2023 Convention Icebreaker in the Garden. Each registrant will receive two complimentary drink tickets. A cash bar will also be available.

Convention registration is required to attend this event. No exceptions.

All-Convention Luncheon & Annual Business Meeting

Tuesday, June 13 — 12:00 p.m. - 1:30 p.m.

The SIPES All-Convention Luncheon is included in the registration fee for members. Spouses & guests who want to attend should purchase an individual ticket for this event.

Steve Wyett, the luncheon speaker, is the Chief Investment Strategist BOK in Oklahoma City. He is responsible for the communication of the investment management message. He serves on a variety of investment related committees including the Asset Allocation committee which sets the basis of the company's investment views. Steve joined Bank of Oklahoma in 2005, and has served in various roles before being named Chief Investment Strategist including the Energy arena

:

The Prospect Discovery Room

Tuesday, June 13 — 2:00 p.m.- 3:00 p.m.

Join other SIPES members in the Rivera Ballroom to show and/or discover prospects; no charge to show or view.

Convention Activities & Registered Events

Ethics Course
Wednesday, June 14 — 11:05 a.m.-12:05 p.m.

Grey Areas: Interactive Application of Business Ethics in the Geoscience Profession
by: John Jordan
There is no fee to attend this talk; it is presented to help meeting attendees meet ethics course requirements. Please indicate on the registration form if you will attend.

Most large oil companies require their employees to have yearly ethics training. State licensees are also required to have one hour of ethics training every year; this talk will fulfill that requirement. Although I do not have a degree in philosophy or jurisprudence, I have been an international explorationist for 35yrs therefore I am aware of many situations where individual or business ethics were tested. I have been giving ethics lectures in the Houston area for several years. I gave a lecture introducing the theory of philosophical ethics and explored the difference between moral compass & ethics and how this relates to business ethics. I then reviewed this model & applied it to our industry with LIVE feedback from the audience via polling technology. This year there will be a brief review of the Business Ethics Model, a review of the SIPES/AAPG code of ethics/conduct and how it fits with the TBPG code of ethics. I will focus heavily on examples where your business ethics are tested. I need to hear from YOU to make this experience more mean ingful! Please submit ethics examples you have encountered to me at John.Jordan.062255@gmail.com to be considered for use in the lecture. Come and join this entertaining and spirited discussion about the "grey areas" & make sure to bring a phone that is capable of texting, I will provice all participants with an Education certificate upon request..

Speaker Bio:
John E Jordan, Jr. is a Past President of the AAPG Division of Professional Affaires (DPA), Past President of the Houston Geological Society (HGS) and a licensed geoscientist in Texas. He is a retired Project Geophysical Advisor who has worked for several Fortune 500 oil companies in California and Texas. Prior to joining Anadarko in 2007, he worked at Kerr McGee, Noble Energy, Arco, and Chevron. During 35+ years in the oil industry, he has worked deep-water and onshore projects from Alaska and the Gulf of Mexico to the Middle East, Asia, Africa, and South America. John is a graduate of Wright State University where he received both a BSc and an MSc from the College of Science and Mathematics majoring in geology and geophysics. He does not hold degrees in philosophy or jurisprudence but enjoys lively debate on most any subject.

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Tuesday, June 13

Santa Fe School of Cooking

3:00 p.m. - 5:00 p.m.

Traditional New Mexican Hands-On Cooking Class & Meal for Shelter. Join fellow SIPES members on a short walk to the Santa Fe School of Cooking, to learn how to make some traditional New Mexican dishes. We'll be learning & tasting as we go; and don't worry no food will be going to waste. All left over foods will be donated to a local shelter through the Santa Fe School of Cooking outreach.The menu includes: corn tortillas, cheese enchilladas with red chile sauce, chicken enchilladas with green chile sauce, pinto beans, posole, and capirotada (bread pudding).

Georgia O'Keefe Museum Gallery, Library & Archives Guided Tour

3:00 p.m. - 4:00 p.m.

The Georgia O'Keeffe Museum is dedicated to the artistic legacy of Georgia O'Keeffe, her life, American modernism, and public engagement. In addition to the founding Georgia O'Keeffe Museum (also called the Museum Galleries) in Santa Fe, the O'Keeffe includes: the Library and Archive within its research center at the historic A.M. Bergere house. The museum's collections are the largest repository of Georgia O'Keeffe's work and personal materials, including items from her historic houses. The museum's fine art collection includes many of Georgia O'Keeffe's key works. Subjects range from the artist's innovative abstractions to her iconic large-format flower, skull, and landscape paintings to paintings of architectural forms and rocks, shells, and trees. Selected materials are also on view in the Library and Archives and the O'Keeffe Welcome Center.

New Mexico State Capitol Guided Tour

4:00 p.m. - 5:00 p.m.

Join a guided tour to discuss the history New Mexico's capitol, the Rotunda, and both the Senate and House chambers. View art from the New Mexico Art Foundation and the committee rooms as well as the Governor's Office. After the tour, you are more than welcome to walk around and check out the art not included on the tour. The State Capitol dedicated on December 8, 1966. It is built in New Mexico Territorial style, which is an adaptation of Greek revival and Pueblo adobe architecture. The building forms the Zia sun symbol. The Capitol was renovated in the early 1990's. The Capitol Art Foundation and Art Collection were also created at this time. All the art and handcrafted furniture in the capitol's permanent collection were created by New Mexico artists.

Convention Activities & Registered Events

Tuesday, June 13

SIPES Awards Banquet

6:30 p.m. - 9:30 p.m.

(This event is NOT included with your basic registration fee and must be purchased separately.)
Join us in Palace A for the SIPES Awards Banquet and enjoy an evening with your colleagues and old friends! A cash bar will be available at 6:30 p.m., followed by dinner at about 7:15 p.m. Following dinner, there will be an awards ceremony to recognize retiring national directors.

Winning tickets for the SIPES Foundation's 2023 No Hassle Raffle will be drawn.

You do not need to be present to win!
Raffle tickets will also be sold prior to the dinner at $10 per ticket - cash only.
The SIPES Outstanding Service Award will be presented to Carol Shiels, #3007, who will be honored for her many years of service to both SIPES and the SIPES Foundation.

Convention Activities & Registered Events

Wednesday, June 14

Ghost Ranch Guided Paleontolgy tour

2:00 p.m. - 6:00 p.m.

This tour focuses on Triassic fossils discovered at Ghost Ranch. Coelophysis, the state fossil was found here in 1947. We will drive and then walk to the original quarry site and step back in time geologically and historically to better understand the significance of this famous dinosaur. Cost includes tour & transportation to the ranch.

Santa Fe School of Cooking

3:00 p.m. - 5:00 p.m.

Contemporary Southwest Cooking Class & Meal for Shelter.
Join fellow SIPES members on a short walk to the Santa Fe School of Cooking, to learn how to make some Contemporary Southwest dishes. We'll be learning & tasting as we go; and don't worry no food will be going to waste.
All left over foods will be donated to a local shelter through the Santa Fe School of Cooking outreach. Smooth spicy tortilla soup, grilled adobo marinated flank steak, cascabel steak sauce, green chile mac `n cheese, mojo marinated vegetables, and tres leches cake

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Post Convention Field Trip

Thursday, June 15 — 7:30 a.m. - 5:30 p.m.

THE VALLES CALDERA: NEW MEXICO'S SUPERVOLCANO

Led by Fraser and Cathy Goff, Los Alamos New Mexico

The Valles Caldera National Preserve

In 2000 the U.S. government purchased the Baca Land and Cattle Co. and created the 88,900-acre Valles Caldera National Preserve. The preserve is managed by the Valles Caldera Trust, whose mandate is to "protect and preserve the scientific, scenic, geologic, watershed, fish, wildlife, historic, cultural, and recreational values of the Preserve, and to provide for multiple use and sustained yield of renewable resources within the Preserve." Detailed geologic maps of every 7.5-minute topographic quadrangle covered by the preserve are among the many multi-institutional scientific activities funded since 2000. These maps may be obtained from the New Mexico Bureau of Geology and Mineral Resources at: http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/home. cfm. In 2010 the bureau released a 1:50,000-scale color compilation as a single Valles caldera geologic map. Its appearance will no doubt spawn a new wave of geoscience research on the caldera. The Valles caldera will forever be a location of focused geoscientific research because it has so much to offer: well-characterized "supervolcano" features and pyroclastic deposits, the "global model of caldera resurgence," a classic, high-temperature geothermal system with analogs to fossil ore deposits, and a sequence of lake deposits recording late Pleistocene climate cycles. The Valles caldera is truly New Mexico's "State Volcano," a geologic treasure and one of the most famous calderas in the world.

Redondo Peak (11,254 feet) looking west across Valle Grande. This broad mountain is a resurgent dome formed by structural uplift of over 3,000 feet of intracaldera Bandelier Tuff. Recent research shows that Redondo grew during the 30,000-year period after the caldera formed, an average uplift rate of about one inch per year. Although uplift is caused by upwelling magma at depth, Redondo Peak is not a volcanic dome.

—Fraser Goff

I give particular thanks to my colleague Jamie N. Gardner and my wife Cathy J. Goff (Janik) for their geologic and geothermal insight and unwavering support during my many years of Valles research. I also offer many, many thanks to the host of geoscientists who have worked on the Valles caldera since the turn of the last century. Long-term financial support from Los Alamos National Laboratory, the Valles Caldera National Preserve, the U.S. Forest Service, the U.S. Geological Survey, and the New Mexico Bureau of Geology and Mineral Resources is grate-fully acknowledged. Thanks also to Nelia Dunbar for reviewing the manuscript.

Tour price includes round-trip bus transportation, guided tour, boxed lunch, taxes and gratuities.

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SOCIETY OF INDEPENDENT PROFESSIONAL EARTH SCIENTISTS

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& 2024 Convention

June 10 - 13, 2024 • Corpus Christi, TX

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Your ad will appear in the 2024 Convention registration and program books & be on the SIPES.org for one year (from the end of the 2024 convention until the start of the 2025 convention)

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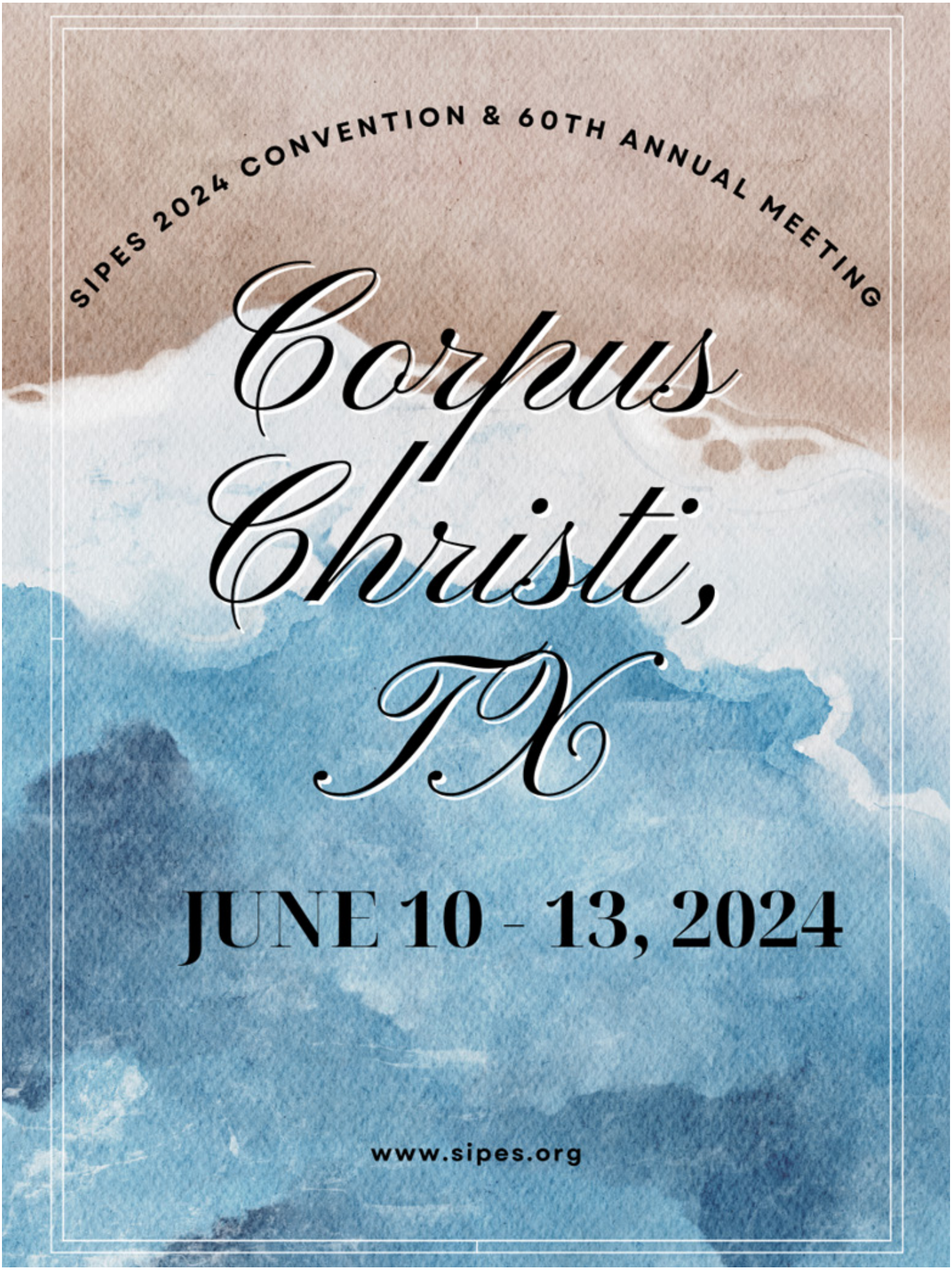
Corpus Christi, Texas

June 10-13, 2024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