

The Petroleum Museum, with the support of the **Abell-Hanger Foundation**, is pleased to welcome geologist, educator, energy expert, and documentary film maker **Dr. Scott W. Tinker**.

Dr. Tinker will discuss the important challenges of affordable and reliable energy for the world while protecting the environment at the **2023 Arlen Edgar Distinguished Lecture Series at 7 p.m. on Thursday, May 18.**

Providing security is a primary objective of every global leader. With the fervent push in Western Europe and the U.S. to address climate issues, and the resultant policy-driven energy crisis in the European Union, several important realities are becoming clear. First, there are no clean and dirty, renewable, and nonrenewable energy sources. They all have benefits and environmental impacts. There are trade-offs. Second, not everything can, or should, be electrified. Many of the industrial materials and services required by global economies such as steel, cement, plastic, ammonia, and transoceanic travel require high heat produced by burning energy dense molecules. Finally, secure energy – affordable, reliable, and safe – underpins economic health, lifts people from poverty, and enables nations to invest in the environment, including atmospheric emissions reductions. Intermittent sources such as solar and wind require expensive backup to make them reliable. Recognizing these realities sets the framework for a balanced dialog about energy, climate, poverty, and other major global issues.

Scott Tinker brings industry, government, academia, and nongovernmental organizations together to address major societal challenges in energy, the environment, and the economy. He is Director of the Bureau of Economic Geology, the State Geologist of Texas, and a professor holding the Allday Endowed Chair in the Jackson School of Geosciences at The University of Texas at Austin. With Director Harry Lynch, Dr. Tinker co-produced the award-winning documentary films *Switch* and *Switch On*, which have been screened in over 50 countries. Dr. Tinker founded the nonprofit Switch Energy Alliance, whose educational materials appear from schools to board rooms globally. Tinker is the host of PBS *Energy Switch*, an energy and climate talk show appearing on over 200 PBS stations nationwide, and *Earth Date*, featured weekly on over 450 public radio stations in all 50 states. In his visits to some 60 countries, Dr. Tinker has given over 1,000 keynote and invited lectures. He also presented a TEDx talk on *The Dual Challenge: Energy and Environment*.

Dr. Tinker serves on public company boards and science councils, Trinity University's Board of Trustees, and is an angel investor who has helped bring companies from startup to acquisition. His writing has appeared in magazines including *Forbes*, *Fortune*, and *Scientific American*. Dr. Tinker has served as president of several international professional associations and is an AGI Campbell Medalist, AAPG Halbouty Medalist, GCAGS Boyd Medalist, American Institute of Professional Geologists (AIPG) Parker Medalist, and a Geological Society of America (GSA) Fellow.

His academic training and professional work experience focus on carbonate stratigraphy and reservoir characterization. He has conducted extensive fieldwork in the Cretaceous of Northern Mexico and the Permian of West Texas; extensive core and log based regional subsurface work in the Devonian of the Western Canada Sedimentary Basin; and integrated core, log, and seismic 3D reservoir characterization and modeling in the Permian Basin of West Texas.

Tickets are free for this event, but please register online at [www.pbpetro.org](http://www.pbpetro.org) or call the Museum at 432-683-4403.



## Tinker Looks At Climate, Security, Energy

*Arlen Edgar  
Distinguished  
Lecture  
May 18  
7 p.m.*

**Free Event. Register online at  
[www.pbpetro.org](http://www.pbpetro.org) or call  
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**Permian Basin  
Petroleum Museum,  
Library and  
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...exploration,  
innovations  
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## Volunteer

## Museum Creates Happy Memories

**M**ike Oestmann was no stranger to the Petroleum Museum when he was asked to serve on the board. A native Midlander, he had visited the facility with his geologist father, who worked on some of the early reefs in the Permian Sea display.

"Through the years, we took guests out there. I remember going with my grandpa, and the Museum brings up happy memories," Oestmann recalled.

A 1978 Lee High School graduate, Oestmann thought he would not return to the Tall City. He studied geology and geophysics at Rice University and was hired by Exxon in Houston, where he lived for several years. He and his family were transferred to Midland where they began to put down roots. When a move back to Houston came up, Oestmann left Exxon to stay in Midland.

Three years ago, when he was asked to serve on the board, "I was all for it." From the days when he was a youngster to today, he has witnessed the Museum's expanding programs.

"What I didn't realize when I got on the board was how far their educational outreach extends. It is so important to get the proper message out about the oil industry and the Museum plays a key role," said Oestmann, President and CEO of Tall City Exploration.

He cited the Museum's educational outreach and diversity in programs.

"It provides educational opportunities for young people. I went up there recently and they had the wallaby out with about 50 kids and teachers who were doing a craft. Everyone was laughing and having fun. I was very impressed. The new Education STEAM Center will become a great asset for the Permian Basin as it enables the Museum to grow its influence," he added.

The Museum's diversity is not something many people consider. Oestmann pointed out that not only does the facility provide the latest information on the oil industry and technology, it also offers Oil Patch exhibits outside "that you can see those up close and personal. They also have the mineral collection, the art, and the Chaparral collection. They offer the past, the present, and the future – plus some other things – about West Texas."

Like his father, Oestmann brought his daughters, and now guests, to the Museum to continue creating more "happy" memories.



**Mike Oestmann**

## Four Welcomed to Board of Trustees

The Petroleum Museum welcomes four new Trustees to our Board for 2023. **Lindsay Ballard** serves as the Managing Director of Acquisitions and Divestitures for EnergyNet. **Gary Douglas** is a lawyer with Lynch, Chappell and Alsup working in the firm's Transactional Practice Group. **Eric Pickett** serves as Conoco Phillips Permian Integrated Operations Manager. **Kyle Stallings** is the Founder and Chief Executive Officer of Desert Royalty Company, LLC. The Petroleum Museum's Board is essential in directing the path of the Museum and ensuring its future. Thank you to all who give their time to serve on our Board of Trustees.



**Kisha  
Richardson**



**Aimee Stratton**

## Store Staff First to Greet Visitors

**O**ur Museum Store staff is so important because they are the visitors' first point of contact as they are welcomed to the Museum. We are very happy to announce that **Jamie Ruehlen**, who has been with the Museum Store since 2021, has been promoted to Store Manager. Jamie is an excellent leader and collaborator and the entire staff is excited to continue working with her in her new position.

Two new faces are also gracing the admissions desk. **Kisha Richardson** and **Aimee Stratton** are joining long-time Store Assistant, **Gary King**, to complete our Museum Store staff. Next time you visit the Museum, be sure to meet our wonderful new staff members and congratulate Jamie on her well-deserved promotion!



**Jamie Ruehlen**

## Mineral Gallery: Adding Amethyst Quartz

The Museum's newest addition to the Mineral Gallery is a remarkable **amethyst quartz** specimen with hematite from the Moon Light Mine in the Thunder Bay District, Ontario, Canada.

Amethyst specimens from Canada's rugged Thunder Bay region are world-famous for their distinctive and beautiful aesthetics. These pieces are noted for their sub-surface inclusions and coatings of red hematite, which contrast with the rich purple amethyst color. Thunder Bay is in the heart of amethyst country and these semi-precious gems are found in quality and quantity in Thunder Bay and along the north shore of Lake Superior.

In recent years, several mines in the area have been producing fine amethyst specimens, but the finest material has been coming from the Moon Light Mine, a small, private mine that is not open to collectors. This fine specimen exhibits beautiful luster, amazing color, and hematite inclusions. This gives the mineral a mesmerizing look that really stands out in a display case.

The crystals have a "wet" luster, and are in fine condition, with rich purple color and gorgeous hematite inclusions. This particular specimen has a beautiful dark purple color much more reminiscent of Uruguayan amethyst versus Ontario material with red-brown hematite microcrystals just below the surface of the terminations. This gives this mineral its unique reddish color.

Head out to the Petroleum Museum to enjoy our Mineral Gallery and all the exhibits the Museum has to offer.



**Amethyst Quartz**  
Ontario, Canada

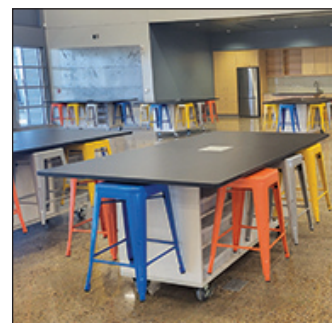
## Coming Events: Convention/STEAM Opening



The Museum will be a part of the **9th Annual Roseland West Texas Oil & Gas Convention** scheduled for March 22-23 at the Midland County Horseshoe Pavilion. It will include inside and outside exhibits, heavy equipment displays and, the most fun, a Taste of the Oilpatch Cookoff.

Work on our **STEAM Education Center** continues to move toward completion! Furniture has arrived and final details to our floors, outside concrete work and the installation of storage shelves are progressing. With furniture and lab tables on site, the classroom is looking great and the lobby will take shape soon.

We look forward to showing this new addition off in the spring. Stay tuned for details on our grand opening!



**New STEAM Center getting ready for students.**

## Lunch Speakers: Bringing History Alive

**March 21, 2023**

**Matthew Day:** *"Blueprint for Success: George Livermore, West Texas Oil, and Prospects in the Mideast and the Americas from 1945-1961"*

Matthew Day, a Lubbock-based oil industry historian and author, will discuss his book "Local Roots, Global Prospects." He will talk about significant oil discoveries in the South Plains and the Permian Basin and set up the story of George Livermore, a Lubbock oil driller who pursued several oil prospects in the Mideast and in the Americas from World War II until his death in 1961.

**April 11, 2023**

**Jim Bruseth:** *"The Discovery and Excavation of La Salle's 1684 Shipwreck Related to a Failed French Attempt to Colonize the Northern Gulf of Mexico"*

Jim Bruseth will discuss how archaeologists used maps to locate and ultimately excavate the wreck of La Belle. Smithsonian Magazine calls the project one of the most important shipwreck discoveries ever made in North America. He will also show how faulty maps doomed La Salle's effort to build a successful colony along the Gulf of Mexico.

**May 9, 2023**

**Richard Brantley:** *"100<sup>th</sup> Anniversary of the Santa Rita"*

Richard Brantley will share the rich history of the 1923 Santa Rita discovery and provide an overview of the resulting educational and healthcare benefits that have helped Texans for 100 years as a result of the discovery of oil on University Lands. (See More about the Santa Rita No. 1 on Page 4)

### **BBL Dates**

11:30 a.m. to 12:30 p.m.

March 21, 2023

**Matthew Day**  
*"Blueprint for Success"*

April 11 2023

**Jim Bruseth**  
*"The LaBelle Experience"*

May 9, 2023

**Richard Brantley**  
*"100th Anniversary of the Santa Rita"*



## Summer Classes: A Fun Way to Stretch Learning

Looking for a way to keep your child engaged during the summer? Look no further than the Petroleum Museum!

We provide a variety of summer science programs for students ages 4 to 12. Each summer camp encourages children to tap into their imagination, hone their collaboration skills, and explore their abilities to think innovatively about new concepts and ideas. An introduction to science, technology, engineering, art, and math (STEAM) at an early age helps set the foundation for a love of life-long learning. With the addition of our onsite STEAM Education Center, we are excited to provide a space for more students to foster their love for learning starting with camps this summer!

For students ages 4 to 5, we will offer two STEAM Sprouts Mini Camps. STEAM Sprouts Goes Camping will be held on Wednesday, May 31, and Thursday, June 1, and STEAM Sprouts Learn to Code will be held on Wednesday, June 7, and Thursday, June 8. Both camps will feature two identical sessions: one from 9:30 to 11 a.m. and one from 12:30 to 2 p.m. Each camp will feature age-appropriate STEAM-based programming that will engage your sprout in collaborative experiments and creative projects. Cost is \$40 per session for Museum Members and \$50 per session for non-members. Pre-registration is required. Thank you to **SM Energy** for their support of our STEAM Sprouts programs.

For students ages 6 to 8, we will offer three Summer Science Camps during June. Topics will include "Under the Sea," "Mini Makers," and "Diggin' for Dinos." Students will learn through interactive challenges, inventive projects, and teambuilding activities. Cost per session is \$60 for Museum Members and \$75 for non-members. Pre-registration is required.

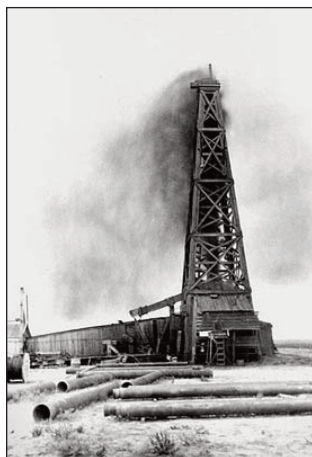


For students ages 8 to 12, we will be offering three Summer Science Camps. Topics will include "LEGO Robotics," "STEM-gineering," and "LEGO Mini Masters: Dino World." Students will engage in hands-on STEM challenges, innovative projects, and creative LEGO designs. Cost per session is \$80 for Museum Members and \$100 for non-members. Pre-registration is required. We appreciate **Oxy's** generous sponsorship of 2023 Summer Science Camps.



Movie Maker Mondays will return this summer on the first and third Mondays of June and July for students ages 6 to 12. Students will watch a popular kids movie and participate in STEM Challenges and creative activities centered around each movie. The lineup includes *The Sea Beast*, *The Good Dinosaur*, *DC League of Super Pets* and *Super Mario Bros Movie*. Cost per session is \$10 for Museum Members and \$15 for non-members. Pre-registration is required. Our thanks to **Oxy** for generously sponsoring Movie Maker Mondays.

## 100 YEARS AGO: Santa Rita No. 1 Tested Faith



After serving in World War I, businessman Frank T. Pickrell ran into his former company commander Rupert Ricker, who had title to 431,360 acres of oil leases on University of Texas property. Ricker was unable to afford the rental payments on these leases and sold them to Pickrell and his partner, Haymon Krupp. Pickrell worked hard to raise the capital to fund a test well on the property; by law he had to drill within 18 months of the lease issuance. Two days before the expiration date, Pickrell secured a rig and had it hauled to location by train. Just before the midnight deadline, the Santa Rita No. 1 was spudded 14 miles from Big Lake. The venture was more than a wildcat; it was a shot in the dark. But the impossible occurred, and in May of 1923 the Santa Rita No. 1 struck major oil. The strike triggered development of the Permian Basin oil empire of West Texas and south-east New Mexico.

In an interview in 1969, Frank Pickrell told the

story of how the Santa Rita No. 1 was named. "The name Santa Rita originated in New York. Some of the stock salesmen had engaged a group of Catholic women to invest. These women were a little worried about the wisdom of their investment and consulted with a priest. He apparently was also somewhat skeptical and suggested that they invoke the help of Saint Rita who was the Patron Saint of the Impossible! As I was leaving New York on one of my trips to the field two of these women handed me a sealed envelope and told me it contained a red rose that had been blessed by the priest in the name of the saint. The women asked me to take the rose back to Texon with me and climb to the top of the derrick and scatter the rose petals, which I did."

The rest is Permian Basin oilfield history. The Santa Rita No. 1, located in Section 2, Block 2, University of Texas lands in Reagan County, came in on May 28, 1923.



# Petroleum Museum



## 2022 Year-End Profile

Work on the new STEAM Education Center colored the horizon of the landscape around the Petroleum Museum during 2022. From a stark foundation to walls and floors, and finally colorful furnishings, the staff prepared for its opening. Inside the Museum, projects, classes and events expanded and added even more depth to the Museum's mission:

*To share the petroleum and energy story and its impact on our lives.*



# Telling Our Story: Starting with Young Learners



## Sprouts Learn About STEAM

Programming for our youngest future scientists was offered in the spring, summer and fall. Each class offered fun experiments and creative activities designed for 4 and 5-year-olds to spark tinkering young minds and get them excited about science. The Museum offered sessions featuring hands-on STEAM (Science, Technology, Engineering, Art, and Math) classes such as *Fairy Tales*, *Folklore*, and *Treehouse Challenge*. In each session “Sprouts” engaged in engineering challenges and activities centered around each topic.

STEAM Sprouts was generously sponsored by **SM Energy**.



## Engineering Comes Next

Throughout the year, *Building Bots Robotics & Funlabs* enabled children in grades K-6 to engage in engineering challenges, team building, and creative robotic design. With different themes each month, the children loved coming to every session. These classes feature LEGO WeDo 2.0 sets, LEGO Mindstorm EV3 sets, Ozobots, Osmos, Spheros, and KUBO robotics equipment. This STEAM (Science, Technology, Engineering, Art, and Math) educational programming is a great way to create excitement about learning and broaden critical thinking skills. Young minds were enlightened thanks to the generous support of **Oxy**.



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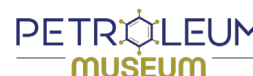
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## Many Thanks for Your Support!

Since 1975, generous contributors have enabled the Permian Basin Petroleum Museum, Library and Hall of Fame to educate and inspire thousands of visitors annually. We gratefully acknowledge the many individuals and organizations that support the Museum through their membership contributions, program sponsorships, and generous donations. This generosity enables the Museum to continue to share the petroleum and energy story and its impact on our lives.



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## Learning Throughout Summer

Summer 2022 was scientifically spectacular! Students throughout the Permian Basin enjoyed Summer Science Camps and Movie Maker Mondays at the Museum. Students were launched into the stratosphere learning about *Rockin' Rockets*, built cities with *LEGO Mini Masters: Shakin' City*, experienced the wild side of *Wild about Science*, and got mechanical with *LEGO Robotics*.

During *Movie Maker Mondays*, children participated in interactive experiments, collaborative engineering challenges, creative activities, and games centered around popular animated movies. Thank you to **Oxy** who generously supported all of our summer activities.



## Inspiring Girls in STEM Gems

The STEM Gems program inspired junior high girls to develop expertise in skills such as critical thinking, creativity, collaboration, communication, leadership, initiative, and productivity. The sessions featured STEM project-based learning targeting seventh & eighth grade girls. The activities followed the school curriculum for math and science to help reinforce their classroom learning. The young ladies gained confidence in their abilities to understand and succeed not only in math and science but all their courses. They also served as role models for others at school and home. Thank you to **Ovintiv** for sponsoring STEM Gems.



## STEAM Break Intercession

STEAM Break welcomed children in first through sixth grade during MISD's intercession. Morning sessions featured experimental learning through themed experiments, engineering challenges, and inventive projects. Afternoon sessions featured

hands-on investigations, collaborative engineering projects, and games all centered around a popular kid-friendly movie. Thank you to

**Ovintiv** for making our first intercession programming such a success.



## Foundation Support

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# STEAM Trunks Travel to Classrooms

The perfect solution to reaching area students and assisting teachers are the Museum's Traveling Trunks. Trunks can be checked out by teachers from across the Permian Basin. With over 40 trunks to choose from, they provide "ready to go" activities with unique hands-on, cross-curricular STEAM teaching tools that allow teachers in the Permian Basin to bring the Petroleum Museum into the classroom. The trunks build on fundamental disciplines like science, technology, engineering, art, math, social studies, and language arts. Each one contains TEKS (Texas Essential Knowledge and Skills) aligned lesson plans and activities that provide the teachers with a ready-made STEAM solution that can immediately be integrated into the classroom. For more information about our Traveling Trunks and how to check them out, contact the Education Department. Thank you to **Covia Foundation** for their underwriting of our Energy and Geology trunks.



## Endowment Fund

By the end of 2022 the Museum's Permanent Endowment fund grew to \$7.4 million. The Endowment allows the Museum an annual allocation which is used to support the Museum's operating budget. The Museum's fund is monitored by an outside firm and is reviewed regularly for performance by the Petroleum Museum's Investment Committee.

The Endowment plays a vital part in assisting with the business of operating and ensuring the longevity of the Museum. Contributions designated or made in memory or in honor of someone are placed in the endowment.

## Bringing Programs to the World

The Petroleum Museum offered distance learning outreach programs to schools across the nation. In conjunction with **Connect2Texas**, our education staff brought exciting programs into classrooms across the country! Topics included live animals, geology, and dinosaurs. Each 30-45 minute program was packed with interactive engagement and learning and was TEKS-aligned. These engaging programs are designed for students in PreK through sixth grade. Schools from Texas, Florida, Indiana, New York, California, Virginia, and Wisconsin have all experienced learning from the Petroleum Museum. Thank you to **Diamondback Energy** for making *Dinos 101* and *Rocks Rock* classes available at no charge to the schools.



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# Telling Our Story: To Learners of All Ages

## Family Science Nights Attract Hundreds to Museum

The Museum completed its 26th year of successful Family Science Nights. Encouraging families to explore the sciences together has been the hallmark of Family Science Nights. Families went *Wild about Wildlife*, were drenched with science as they got to *Splash into Science*, walked with the dinosaurs as they took a

*Journey through the Jurassic*, and had an insanely good time with *Mad Science*. Thank you to our long-time sponsor **Chevron** who makes this event such a success.



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### Follow the Science

The Petroleum Museum celebrated its 47th birthday with an evening of scientific exploration as we *Followed the Science*. Attendees participated in mind-boggling experiments such as painting with a robot, making elephant toothpaste, and designing their own fire coaster. Thank you to all the individuals and companies that helped us celebrate the Museum!

## Brown Bag Lunches Offer New Ideas

Adults attending the Museum's monthly lunch and lecture series expanded their knowledge on a variety of topics. Just to list a few, James Beauchamp, president of MOTRAN Alliance, Inc. gave us an update on the proposed Highway 14 that will pass through Midland-Odessa, geologist Jeff Smith enlightened the group with *Tales from the Paleo*, summertime featured Dr. Petro, aka Greg Hinterlong, who welcomed children and adults to learn why we perform experiments and what we learn from them, and Anita Gamertsfelder, director of the Midland ISD Education Foundation discussed how great schools are everyone's business. The monthly series provides guests with a wealth of information and entertainment thanks to the underwriting provided by **Norma J. McGrew and Hahl Proctor Charitable Trust, Bank of America, N.A.**

## Distinguished Lecture Series

The Museum was honored to continue this lecture series honoring Arlen Edgar. The Museum welcomed **Dr. Steve Koonin**, author of the book *Unsettled*, American theoretical physicist, former director of the Center for Urban Science and Progress at New York University, and professor in the Department of Civil and Urban Engineering at NYU's Tandon School of Engineering. Dr. Koonin discussed what climate science tells us, what it doesn't, and why it matters, drawing upon his decades of experience – including top science advisor in the Obama administration – to provide updated insights and expert perspective free from political agendas. He took the audience behind the headlines to the more nuanced science itself, dispelling popular myths and unveiling little-known truths.



**Abell-Hanger  
Foundation**

The Philanthropy of George & Gladys Abell

**Abell-Hanger Foundation** generously supports this educational lecture series.

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**Continued on Page G**



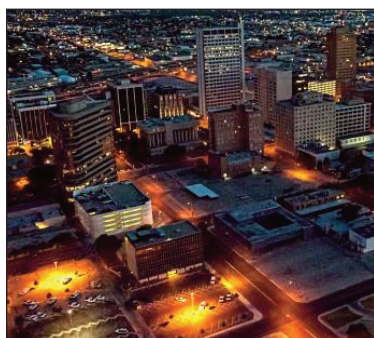
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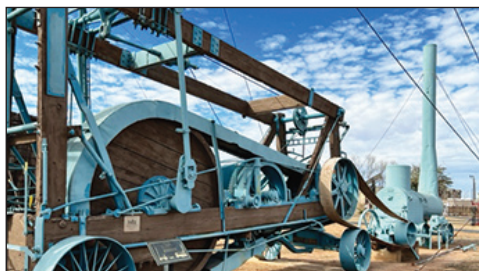


*STEAM Education Center scheduled to open in Spring 2023. Photo shows interactive play area.*



## City Aids in Advertising Museum

Tourism advertising is a vital part of attracting tourists to Midland and to visit the Petroleum Museum. We use a multi-platform approach to reach a wide target market of prospective tourism visitors. These platforms include a regularly updated website, active social media accounts with paid advertising, and selective print advertising in tourism and Midland-based publications. These avenues assist in ensuring that the Museum welcomes an average of 40,000 guests per year. Thank you to the **City of Midland** for allowing us to showcase our Museum and Midland to tourists from across the globe.



## Exhibits & Oil Patch

Many thanks go out these businesses and individuals that helped bring the Museum's Oil Patch exhibits to life. The Museum's Oil Patch contains the largest collection of antique oilfield equipment in the nation and tells the diverse story of the early days of the oil industry. With the help of so many, we were able to preserve and protect this equipment for all to learn, enjoy and even reminisce about the past or look to the possibilities of the future. Thank you to: **ASCO Equipment Inc., Bridges Equipment Ltd., Warren CAT, and XTO Energy.**



*The Oil Patch contains the largest collection of antique oil-field equipment in the country.*

## More 2022 Contributors

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## Levels of Membership

Membership has its privileges! All membership levels are renewed annually and are non-transferable. Prices are subject to change.

### ALL MEMBERS RECEIVE:

- Free Admission for you and your guest (*Individual, Corporate, and Organization member/employee must be present for free admission*)
- 15% discount in Museum Store
- 10% discount on facility rentals
- Discounts on select education programs
- Early access to Family Science Nights and education program registration

### Energy Circle Members Also Receive:

- Patron and Sustainer levels receive one (1) free daytime rental of Board Room
- Benefactor and Director levels receive one (1) free daytime rental of Auditorium
- 20% discount on other facility rentals
- Exclusive Energy Circle events
- Logo on Museum website

### MEMBERSHIP LEVELS

#### Individual

- For individuals or families
  - \$100 Family
  - \$150 Friend
  - \$300 Associate
  - \$600 Supporter
  - \$1,000 & above Energy Circle

#### Corporate/Organizations

- For companies, corporations, organizations and educational institutions
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  - \$5,000 Benefactor
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CO<sub>2</sub> Conference  
FabLab Permian Basin  
Midland College – Engineering Department  
Midland College – Petroleum Professional Development Center

Midland Gem & Mineral Society  
NAPE  
Peeps & Creeps  
Permian Basin Petroleum Association  
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## CALL US:

Every effort was made to produce an accurate listing of contributions for this publication. If your name has been misspelled or has not been listed to your satisfaction, please call Luanne Thornton at 432-683-4403 or send an e-mail to [lthornton@petroleummuseum.org](mailto:lthornton@petroleummuseum.org).





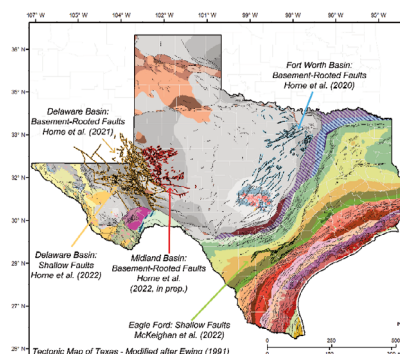
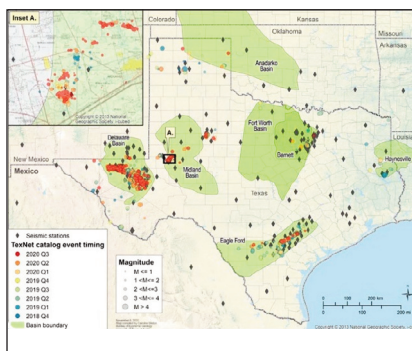
**Question:** What is the industry doing about increased seismic activity in the Permian Basin?

**Dr. Petro:** The Permian Basin has experienced an uptick in seismic activity, which some research links to oilfield produced water disposal. For years, operators have worked with industry peers, the TexNet

Seismic Observatory, CISR (Center for Injection & Seismicity Research) and other academic research groups to monitor, collect, and share information that guides industry practices regarding seismic activity in producing regions. Oil and natural gas operators are actively using proven technology to improve all aspects of operations through practices such as pre-completion risk assessment, proper monitoring, and mitigation protocols.

The industry is also working collaboratively with lawmakers, regulators and academia to facilitate exploring the feasibility of recycling produced water in various, beneficial applications outside the oilfield. In 2021, the industry was pleased to support the creation of the Texas Produced Water Consortium. Additionally, industry regulators are fulfilling their obligation to ensure Texas' natural resources are produced responsibly. For example, the Railroad Commission of Texas is closely following the seismic activity that could be linked to the disposal of oilfield produced water. In fact, the Commission recently took action to cut back disposal of produced water in certain areas while it evaluates alternatives.

Texas has been wise to embrace policies to encourage water



recycling and reuse while avoiding a one-size-fits-all approach. As a result, the oil and natural gas industry is at the forefront of water conservation, innovation, and sustainability efforts in Texas. Today's oil and natural gas companies are technology companies, and recycling produced water is becoming more common thanks to the oil and natural gas industry's commitment to innovation and technological advances. Many Texas oil and natural gas companies are voluntarily leading the way to develop and deploy innovative technologies that are reducing freshwater use, expanding produced water reuse and increasing use of naturally-occurring saltwater (brackish groundwater) in their operations. The industry's collaborative efforts with academia, regulators and others will ensure the continued safe and responsible development of our state's indispensable resources.

*(Excerpts from article by Todd Staples, president of the Texas Oil and Gas Association (TXOGA).)*

## Space Nation Coming to Museum

A three-day simulated space mission with former NASA astronaut **Gregory H. Johnson**, the last pilot of the Space Shuttle Endeavor, lands in Midland on April 28.

Space Nation, a space exploration training company and an official partner of



NASA will lead visitors on this otherworldly adventure testing leadership, communication and teamwork skills. Space Nation has partnered with the Petroleum Museum to offer a free space program for the Midland public on April 30 with Johnson.

Partners and supporters of the mission include Midland Air & Space Port, and Kepler Aerospace.

Moon Pioneers Mission is the first of a series of planned space missions by Space Nation in Midland.

To join this mission or to learn more, go to [moonpioneers.spacenation.org](https://moonpioneers.spacenation.org).



## Connect2Texas with Outreach Classes

**Connect2Texas** is a network of Texas-based educational content providers that include museums, authors, and cultural, historical, and scientific organizations. The Petroleum Museum's Education staff has had the unique opportunity to engage with and share our dinosaur and geology programs with students across Texas, California, Florida, Indiana, New York, Ohio, Virginia, Washington, and Wisconsin.

*Dinos 101* allows students to travel back in time and learn about the various species of dinosaurs that once ruled the Earth. *Rocks Rock!* showcases the wonders of geology through the structure of the Earth, rocks, and minerals.

Thank you to **Diamondback Energy** for sponsoring these two virtual classes.



## Family Science Night

Thursday, March 30, 2023

*"Forces of Nature"*

6:30 to 8 p.m.

**Free Admission**

Channel your inner meteorologist and experience the power of nature on Thursday, March 30, from 6:30 to 8 p.m. Jump into the science behind the forces of our world as you learn firsthand from meteorologists of the National Weather Service, witness the wonder of tornadoes, experiment with the power of air pressure, and much more!

Special thanks to **Chevron** for making this fun, free, and electrifying night possible!



Remember that your Museum membership allows you to begin your Family Science Night experience at 6 p.m. Go online to [www.pbpetro.org](https://www.pbpetro.org) to secure your membership today!

## Petroleum Hall of Fame Set For April

Please make plans to join us as we honor the 2023 Petroleum Hall of Fame inductees: **F. Marie Hall, Edward E. Runyan, Kenneth B. Nolen** and **Don L. Sparks**. It will be a memorable evening celebrating the historic achievements of these individuals who have distinguished themselves as leaders in their community and in the petroleum industry. As members of this elite group, each inductee has upheld the tradition of achievements that will be remembered and beliefs that will serve to inspire.

The induction ceremony and dinner will be held **Thursday, April 20, 2023**. Your presence and support will help us honor these remarkable individuals. For sponsorship or ticket information, go to our website at [www.pbpetro.org](http://www.pbpetro.org) or contact Luanne Thornton directly at [lthornton@petroleummuseum.org](mailto:lthornton@petroleummuseum.org).

## Membership Gives Perks All Year Long

No time like the present to join or renew your membership! Museum membership has many perks beginning with free admission, store discounts, and special invitations. To become a member, log on to our secure website at [www.pbpetro.org](http://www.pbpetro.org) or contact Luanne Thornton at 432-683-4403.

Welcome to our newest and renewed members from November 15, 2022, through February 17, 2023.

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## APPLAUSE, APPLAUSE

We give a round of applause to the following friends, companies and businesses. Their in-kind contributions of time, assistance or services are appreciated:

*ASCO Equipment, Inc.*  
*Butch Kimbrough*

Memorial contributions to the Petroleum Museum are deposited in the permanent endowment fund, unless donor advised, to provide ongoing tribute to the individuals recognized in bold. Donors are listed below the honoree. Contributors from November 2, 2022, through February 17, 2023, were:

## Memorials

### IN HONOR OF...

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### IN MEMORY OF...

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Evan W. Williams, Jr.



# Notable Dates

## MARCH

### MARCH 7

Building Bots: Robotics & Engineering FunLab  
5:30 to 7:30 p.m.  
Grades K-2nd  
Pre-registration required. For more information or to register online, visit [www.pbpetro.org](http://www.pbpetro.org).  
Sponsor: **Oxy**

### MARCH 13-17

STEAM Break: "Lego Comics"  
Half day or full day options  
Grades 1-6  
Pre-registration required. For more information or to register online, visit [www.pbpetro.org](http://www.pbpetro.org).  
Sponsor: **Ovintiv**

### MARCH 20, 27

STEAM Sprouts— LEGO Simple Machines  
9:30 to 10:30 a.m. OR 11:30 a.m. to 12:30 p.m.  
Ages 4-5  
Mondays for six weeks  
Pre-registration required. For more information or to register online, visit [www.pbpetro.org](http://www.pbpetro.org).  
Sponsor: **SM Energy**

### MARCH 21

Brown Bag Lunch & Lecture Series  
Speaker: Matthew M. Day  
"Blueprint for Success: George Livermore, West Texas Oil, and Prospects in the Mideast and the Americas from 1945-1961"  
11:30 a.m. to 12:30 p.m.  
Free admission. Drinks and dessert provided.  
Sponsors: **Norma J. McGrew & Hahl Proctor Charitable Trust, Bank of America, N.A. Trustee**

### MARCH 21

Building Bots: Robotics & Engineering FunLab  
5:30 to 7:30 p.m.  
Grades 3rd-6th  
Pre-registration required. For more information or to register online, visit [www.pbpetro.org](http://www.pbpetro.org).  
Sponsor: **Oxy**

### MARCH 30

Family Science Night  
"Forces of Nature"  
6:30 to 8 p.m.  
6 p.m. Early Admission for MEMBERS ONLY  
Hands-on Science Experiments & Activities  
Free admission.  
Sponsor: **Chevron**

## APRIL

### APRIL 3, 10, 17 & 24

STEAM Sprouts— LEGO Simple Machines  
9:30 to 10:30 a.m. OR 11:30 a.m. to 12:30 p.m.  
Ages 4-5  
Mondays for six weeks  
Pre-registration required. For more information or to register online, visit [www.pbpetro.org](http://www.pbpetro.org).  
Sponsor: **SM Energy**

### APRIL 4

Building Bots: Robotics & Engineering FunLab  
5:30 to 7:30 p.m.  
Grades K-2nd  
Pre-registration required. For more information or to register online, visit [www.pbpetro.org](http://www.pbpetro.org).  
Sponsor: **Oxy**

### APRIL 11

Brown Bag Lunch & Lecture Series  
Speaker: Jim Bruseth  
"The LaBelle Experience"  
11:30 a.m. to 12:30 p.m.  
Free admission. Drinks and dessert provided.  
Sponsors: **Norma J. McGrew & Hahl Proctor Charitable Trust, Bank of America, N.A. Trustee**

### APRIL 18

Building Bots: Robotics & Engineering FunLab  
5:30 to 7:30 p.m.  
Grades 3rd-6th  
Pre-registration required. For more information or to register online, visit [www.pbpetro.org](http://www.pbpetro.org).  
Sponsor: **Oxy**

### APRIL 20

Petroleum Hall of Fame  
Induction Ceremony and Dinner  
Ticketed Event with Sponsorship & Underwriting Opportunities  
Contact Luanne Thornton at 432-683-4403 or [lthornton@petroleummuseum.org](mailto:lthornton@petroleummuseum.org).

## MAY

### MAY 2

Building Bots: Robotics & Engineering FunLab  
5:30 to 7:30 p.m.  
Grades K-2nd  
Pre-registration required. For more information or to register online, visit [www.pbpetro.org](http://www.pbpetro.org).  
Sponsor: **Oxy**

### MAY 9

Brown Bag Lunch & Lecture Series  
Speaker: Richard Brantley  
"100th Anniversary of the Santa Rita No. 1"  
11:30 a.m. to 12:30 p.m.  
Free admission. Drinks and dessert provided.  
Sponsors: **Norma J. McGrew & Hahl Proctor Charitable Trust, Bank of America, N.A. Trustee**

### MAY 16

Building Bots: Robotics & Engineering FunLab  
5:30 to 7:30 p.m.  
Grades 3rd-6th  
Pre-registration required. For more information or to register online, visit [www.pbpetro.org](http://www.pbpetro.org).  
Sponsor: **Oxy**

### MAY 18

Arlen Edgar Distinguished Lecture Series  
Speaker: Dr. Scott W. Tinker  
"Balancing Energy Security, Economic Security and Climate Security"  
7 p.m. Free event with limited seating.  
For reservations, call 4432-0683-4403.  
Sponsor: **Abell-Hanger Foundation**

### MAY 31-JUNE 1

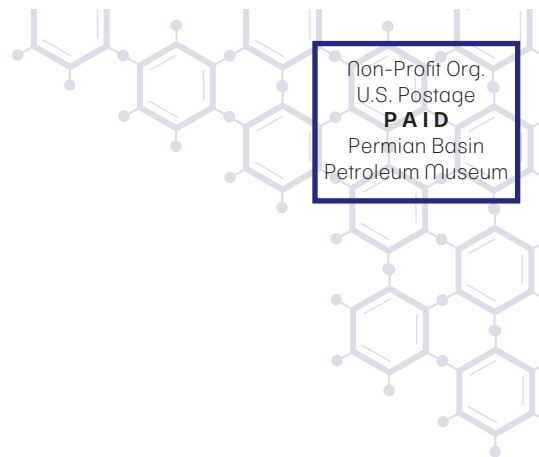
STEAM Sprouts Mini Camp: Goes Camping  
9:30 to 11 a.m. OR 12:30 to 2 p.m.  
Ages 4-5  
Museum members \$40; Non-members \$50  
Pre-registration required. For more information or to register online visit [www.pbpetro.org](http://www.pbpetro.org).  
Sponsor: **SM Energy**

*For more information about any of these programs or events,  
contact the Petroleum Museum at 432-683-4403 or [www.pbpetro.org](http://www.pbpetro.org).*

# PETROLEUM MUSEUM

Permian Basin Petroleum Museum, Library and Hall of Fame  
1500 Interstate 20 West • Midland, Texas 79701

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***Museum Bit & Bytes* is published quarterly by the Petroleum Museum. For more information call 432-683-4403 or visit the website at [pbpetro.org](http://pbpetro.org).**

3/23

## The Museum Store



TREAT YOUR CHILDREN to fun books from the Museum! Find industry books, geology books, and fun stories for the kids in your life! Plus, know that your purchase supports the Museum! Museum Members always receive **15 percent off** purchases. We are open from 10 a.m. to 5 p.m. Monday through Saturday and 2 to 5 p.m. on Sunday. Or, shop online at [pbpetro.org/shop](http://pbpetro.org/shop) anytime.

**Our Mission: We will share the petroleum and energy story and its impact on our lives.**