

Announcing Petroleum Hall of Fame

The Petroleum Museum proudly announces its inductees for the 2019 Petroleum Hall of Fame:

Robert C. Bledsoe
Arlen L. Edgar
George P. Mitchell
L.D. "Buddy" Sipes, Jr.

ROBERT C. BLEDSOE was born in El Paso, Texas, soon moved to Presidio, and then grew up in Marfa. He graduated from the New Mexico Military Institute in 1949 and enrolled at The University of Texas's business school and its combination program for pre-law. After his first year of law school he was commissioned a Second Lieutenant in the U.S. Air Force and called to active duty. After two years, he returned to law school, graduating in 1955.

Bledsoe then joined the firm of Baker, Botts, Andrews and Sheppard in Houston. Two years later, he returned to the Permian Basin and joined Hervey, Dow and Hinkle in Roswell, N.M., the leading oil and gas legal firm in New Mexico. He received an offer to join the Midland firm of Stubbeman, McRae, Sealy, Laughlin & Browder in 1959. During his time there, he was engaged by British Petroleum to work on the Prudhoe Bay Unit Agreement and Unit Operating Agreements.

In 1974, six lawyers left the Stubbeman firm to form Cotton, Bledsoe, Tighe and Morrow. The founders envisioned a small firm, but the Arab oil crisis jumpstarted the U.S. oil industry. The law firm grew to 35 lawyers, becoming the Permian Basin's largest firm.

A frequent writer and speaker on oil and gas topics, Bledsoe was among the first group of Texas attorneys to be certified a specialist in oil, gas, and mineral law. He has served on the Board of the Oil

and Gas Specialization. In 2008 he was recognized by the Texas Bar Foundation and received the Fifty-Year Lawyer Award, which honors lawyers who adhere to the highest principles and traditions of the legal profession.

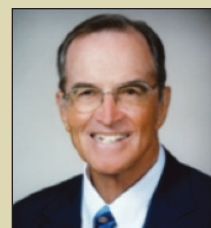
ARLEN P. EDGAR was born in Stephenville in 1934. He graduated from Tarleton State University, a two-year school, and then transferred to The University of Texas where he graduated with a B.S. in Petroleum Engineering in 1957. He was employed with Pan American Petroleum Corporation in Odessa. From 1961 to 1967 he worked for Leibrock, Landreth, Campbell and Callaway as a reservoir engineer, moving up to manager of the Consulting Division. Edgar also worked for Kanata Exploration Company, a Canadian oil producing company and offshore exploration company which engaged in oil and gas exploration in South Louisiana. From 1967 to 1971, Edgar served as vice president, president and director of Tipperary Land and Exploration and as managing director in Brisbane, Australia.

In 1971, Edgar became general manager of Western States Producing Company which was involved in oil and gas exploration, development and production in West Texas, New Mexico, Oklahoma and Canada. In 1973, he ventured out as an independent consultant and investor in drilling deals.

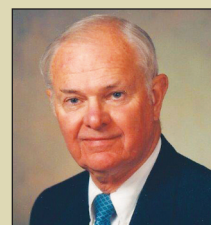
Edgar has represented the West Texas oil and gas community on local, state and national levels, serving many offices for the Society of Petroleum Engineers, the American Institute of Mining, Metallurgical and Petroleum Engineers, the Society of Petroleum Evaluation Engineers and the Society of Independent Professional Earth Scientists.

GEORGE P. MITCHELL was born in Galveston in 1919. He graduated first in his class with a petro-

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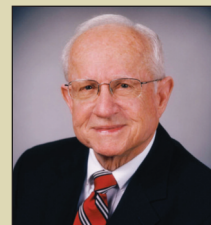
Robert C. Bledsoe



Arlen P. Edgar



George P. Mitchell



L.D. "Buddy" Sipes, Jr.

Petroleum Hall of Fame Dinner
Thursday, May 2, 2019
The Petroleum Club

Contact Luanne Thornton, 432-683-4403



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**Permian Basin
Petroleum Museum,
Library and
Hall of Fame
...exploration,
innovations
and legends...**

Dinner for Inductees Set for May 2019

...Continued from Page 1

leum engineering degree with an emphasis in geology from Texas A&M University in 1940. After a short time with Amoco, he was commissioned a lieutenant in the Army Corps of Engineers. Afterward, Mitchell joined a newly formed wildcatting company, Oil Drilling Inc., first as a consulting geologist and engineer and later as a partner. He was named president in 1959 and under his leadership the company evolved into one of the nation's largest independent oil and gas producers. Over his career, Mitchell participated in over 10,000 wells including 1,000 wildcats and found more than 200 oil and 350 gas discoveries.

His crowning accomplishment was pioneering drilling and completion technologies that helped create the shale gas revolution. He enabled the first viable production of gas in the Barnett Shale employing the first successful application of hydraulic fracturing. His unconventional thinking and unwavering determination changed the energy future for the United States.

Mitchell served as a member of the National Petroleum Council and three terms as president of the Texas Independent Producers and Royalty Owners Association. He was a director of the Gas Research Institute and a member of the World Resources Institute Council.

L. D. "BUDDY" SIPES, JR. was born in Big Spring and received his B.S. in Petroleum Engineering, graduating with honors from Texas Tech in 1957. He went to work for Core Laboratories, Inc. receiving engineering and consulting assignments in Dallas, Midland and Paris, France. From 1958 to 1960 and again from 1961 to 1962, he served as a U.S. Army First Lieutenant. After completing his commission, Core Laboratory moved him to Midland to establish a consulting office. Two years later, Sipes joined a local petroleum consulting firm, which he and his associates purchased and renamed Sipes, Williamson & Associates, Inc.

In 1980, Sipes formed Chisos Operating, Inc., an independent oil and gas firm. In 1990, he founded Diversified Remediation, Inc., an environmental cleanup company headquartered in Houston.

As a widely respected petroleum engineer, especially in the areas of reservoirs and evaluating reserves, he has had a major impact on the industry. He has co-authored several published papers, including *Rock Properties of the Permian Basin Formations and the Reeves Field*, both part of the Oil and Gas Fields in West Texas Symposium in 1966. *Characteristics of a San Andres Reservoir* (1965) and *Determination of Gas in Place for a Delaware Basin Ellenburger Field* (1969) provided baseline data and calculations that have been referenced in numerous works through the early 1980's and early 1990's.

Sipes's work has helped establish definitions and accepted standards for reservoir engineering. They were also used by the Texas Water Development Board (1972) and the U.S. Department of Energy (1995) in planning efforts and policy decisions. He has played a critical role in shaping the development of the industry from the perspective of the course of development and by establishing globally recognized standards used throughout the industry.

The Museum will host the Hall of Fame Induction Ceremony and Dinner on Thursday, May 2, 2019, at the Petroleum Club. For more information, please contact Luanne Thornton at 432-683-4403.

Mineral Event Highlights Earth's Jewels



Luanne Thornton, left, chats with jewelry designer Paula Crevoshay.



Andrew Jackson, from left, talks with Luanne Thornton and speaker Rob Lavinsky.

The Museum's third annual Mineral event was quite a hit with Rob Lavinsky fascinating the audience with stories of his ever-growing passion for "rocks" and minerals and with Paula Crevoshay sharing how nature inspires her in the creation of her exquisite jewelry.

Coming Events

Hazen Focuses on Minerals, Life

Mark your calendars for April 9, 2019 when we welcome **Dr. Robert M. Hazen**, Senior Staff Scientist at the Carnegie Institution's Geophysical Laboratory and Clarence Robinson Professor of Earth Sciences at George Mason University, as the next speaker for our **Arlen Edgar Distinguished Lecture Series**.



Hazen received his B.S. and M.S. degrees in geology at the Massachusetts Institute of Technology and a Ph.D. at Harvard University in earth science. He has authored 400 scientific articles and 25 books, including *The Story of Earth*.

A former president of the Mineralogical Society of America and winner of awards for research, science communications, and teaching, Hazen's recent research focuses on the varied roles of minerals in the origin of life, the co-evolution of the geo- and biospheres, the development of complex systems, and the application of "big data" to understanding mineral diversity and distribution. He is active in national science education policy and is passionate about presenting science to nonscientists through writing, radio, TV, public lectures, and video courses.

The lecture is a free ticketed event at the Museum. For reservations, call 432-683-4403 or reserve online at pbpetro.org.

April 9

7 p.m.

**Arlen Edgar
Distinguished
Lecture Series**

**Robert Hazen
Geologist
Author**

**Sponsored by:
Abell-Hanger Foundation**

Concert to Benefit 'The Field's Edge'

Voces Dei, a contemporary acapella group, will bring the joy of Christmas to life. This group of Midland carolers has been performing traditional and off-the-wall song renditions since 1984. This year the choristers are singing to benefit "The Field's Edge," a non-profit whose vision is to build a permanent, supportive, tiny house community for the chronically homeless in Midland. Join us for a magical Christmas Brown Bag Lunch as these carolers pull out their reindeer ears, Santa hats and Christmas sweaters to share in beautiful harmony classics like *"Silent Night"* and *"Deck the Halls"* as well as parodies like *"Throw the Yule Log on Uncle John."*



December 18

11:30 a.m.

**Brown Bag Lunch
& Lecture Series**

**Voces Dei
Concert**

**Sponsored by:
Texas Pecos Trail
Norma J. McGrew
Mr. & Mrs. Max Wright**

Volunteer

Bomer Leans on Industry Pillars

When Clay Bomer pulled into Midland 21 years ago, there literally was no room for him. He lived in a corporate hotel until a house could be found.

Fast forward to today, and the second-term Petroleum Museum board member sees the situation hasn't changed much. But he has. When Bomer came to the Tall City, he had been working for Halliburton since 1979. He remained with them until leaving in 2003 for another firm. Through mergers, he eventually landed with Schlumberger, and then left in 2015 to co-found Dynasty Wireline Services. With a lengthy background in the energy industry and the Permian Basin, Bomer saw a way to use his talents as a member of the Museum board and joined in 2013.

"The Museum has so many things now with all the renovations," Bomer said. "I like all the newer technology exhibits but I still like the traditional oilfield exhibits that have been there from the start. People can see where the industry has come from. I'm all about tradition and old school. These people (in the Petroleum Hall of Fame) were the pillars and founders of the oilfield."

"The numerous children's programs help prepare young students for the future," he noted.

"And many people traveling through this area who stop at the Museum don't know anything about the oil industry. Most people think oil is just below the surface. People who tour the Museum say they didn't realize there was that much involved in the industry."

He credits the Museum's success to the staff. "These people work harder than anyone I've been around. The whole organization has great people. I appreciate the opportunity to serve," Bomer said.



**"Many people traveling
through this area who
stop at the Museum
don't know anything
about the oil industry."**

– Clay Bomer

Planting Spring Programs



STEAM Sprouts Calendar:

Every Monday starting March 18 through April 22;

Choose 9:30 to 10:30 a.m. OR 11:30 a.m. to 12:30 p.m.

COST: \$80 for Museum members; \$100 for non-members.

Participants must sign up for the entire six-week session as classes will build upon each other.

STEAM Sprouts Growing...

We are excited as the Museum continues to grow two of its newest programs this coming spring. STEAM Sprouts is a hands-on, interactive program for children ages 4 and 5 that will feature six-week sessions held on Mondays from 9:30 to 10:30 a.m. or 11:30 a.m. to 12:30 p.m. starting Monday, March 18. Each class will focus on LEGO STEAM Park programming that will include age appropriate experiments and creative activities designed to get young minds excited about science!

The Museum kicked off this program in the fall with a six-week session featuring hands-on Fairy Tale STEAM Programming. Students engaged in engineering and creative challenges centered around Rapunzel, The Gingerbread Man, and Little Red Riding Hood. STEAM Sprouts is generously sponsored by **Occidental Petroleum Corporation**.



...Into Junior High for Girls

The Museum also continues to reach girls at Goddard Junior High through its new program developed in partnership with Communities in Schools. STEM Gems is an afterschool program that meets once a week and is designed to encourage seventh and eighth grade girls to get engaged in Science, Technology, Engineering, and Math through STEM project-based learning. STEM programs help students create real world connections and increase their interest in STEM careers.

The program began in the fall with students visiting the Museum and enjoying guided tours, a special guest speaker, and hands-on robotic challenges. During the program the girls engineered their own ecosystems, built edible atoms, and created wearable atoms.

Programming this spring will continue to reinforce what the girls are learning in their classrooms in a hands-on, interactive way. We extend a special thank you to **Encana Services Ltd.** for making this program possible!



Family Science Nights: "Powered by Science" Thursday, January 24, 2019

Get energized at our upcoming "Powered by Science" Family Science Night on Thursday, January 24, from 6:30 to 8 p.m.

Discover the science behind the energy that powers our world as you experiment with electricity, create your own wind energy, make edible core samples, and more! Museum Members enjoy the added bonus of early admission from 6 to 6:30 pm. Special thanks to **Chevron** for powering this FREE, science-packed educational event!



ASK Dr. Petro

How do rocks differ from minerals?



The term "rock collection" is often misused for "mineral collection." Although a few people collect rocks, the number of people collecting minerals is far greater. Rocks and minerals are not completely opposite each other, but they are different.

A mineral is something that occurs naturally and has a defined chemical composition with atoms bonded in a regular, repetitive internal structure. A rock, however, is a collection of two or more minerals and its composition is never

exact. Composed of tiny microscopic grains of elements to coarse mineral agglomerates ranging in size from tiny pebbles to huge mountains, rocks make up the earth's crust. Interestingly, some rocks are not solid, such as magma, soil, and clay.

So, when you venture on your "rock hunting" excursion, make sure you know the difference. Being able to tell a rock from a mineral can be hard, but very exciting! After all, minerals can end up being extremely valuable.

CRITTER CORNER: Meet Dorothy, the Sassy Hedgehog

Say hello to **Dorothy**, the newest member to call the Museum's Critter Corner home. Dorothy was donated to the Museum this summer and will enhance our animal program teaching children about ecosystems, animal classifications, adaptations and more. Hedgehogs are known for their prickly spines which cover their face and back. These cute critters depend on their spines for defense, both while they sleep and when they face enemies. Hedgehogs enjoy insects, small mice, snails, lizards, frogs, eggs, and even snakes! Mostly nocturnal, they head out at night in search of food – but they are sometimes active during the day, particularly after it rains. There are 15 different species of hedgehogs found across Europe, Asia and Africa. These prickly creatures mainly stay on the ground, but they are good swimmers and can even climb trees!

Stop by the Petroleum Museum to see Dorothy, the sassy Hedgehog!



Area History

Docents Guiding Tours

Midland ISD fourth graders are coming to the Museum for special Texas History tours during the months of November, December, and January. Students learn about the history of the Permian Basin, renewable and nonrenewable energy sources, geology, the economics of oil and much more! We send a special thank you to our Museum docents for making these tours possible and having such an impact on the young minds of our community! We thank our partners at MISD, particularly **Chris Hightower**, Director of Social Studies, and **Orlando Riddick**, Superintendent, for their support!

Traveling Trunks Ready for Teachers

The Museum is offering a variety of traveling trunks that can be checked out by teachers in surrounding communities and used to reach students across the Permian Basin. The Museum has two Geology trunks, one built for students Kindergarten-second grade and another for third through sixth grade. Two Ozobot Robotics trunks, sponsored by SM Energy and designed for second through sixth grade, are also available. For younger students, the Museum created a Treehouse STEM Challenge trunk for students in Kindergarten – first grade, along with a More2Math LEGO trunk for first and second graders.

All trunks are TEKS aligned and include all materials needed to complete the activities. Please contact education@petroleum-museum.org for more information on pricing and availability.

Wrapping Up Fall

The Museum's educational programs have been booming this fall with our **Building Bots Robotics & Engineering Funlabs**, **STEAM Sprouts** classes, **Family Science Nights**, and **STEM Gems**.



BIRTHDAY BASH: Kicking Up Heels to Celebrate 43 Years

The Petroleum Museum celebrated its 43rd birthday on September 28. Jeans were starched, boots were polished, and a fun-loving gang moseyed over to our Birthday Bash at the Boomtown Saloon! Lady luck gave everyone a chance at Black Jack, Craps, Roulette or Texas Hold 'Em. Boot-scootin' music was provided by The UnSweet T's for a do-si-do around the dance floor. The belly-warming grub was provided by Ranchland Country Club. Thank you to everyone that supported us through donations and those who came swinging through the saloon doors!

A rootin' tootin' "Yee Haw"

to **NANCY ANGUISH & TIM THOMPSON** for hitting the **Jackpot** as our Premier Sponsor.

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♦ Edwin H. Magruder, Jr.

♦ Vicky & David Saxe

♦ Selman & Associates

♦ Ray Trosper

♦ Jane Wolf

Impacting Lives: Your Gift Makes a Huge Difference

The numbers say it all! **YOU** have continued the legacy of all the Petroleum Museum represents to the community, state and beyond. 2017 was a banner year with 51,052 guests experiencing all the Museum has to offer.

Already in 2018 that number has been surpassed.

- 21,000 students engaged in tours and programs.
- Chaparral Live Drives thrilled 280 gear-heads.
- The Museum's permanent endowment stands at \$6.7 million, securing our future for years to come.
- 297,000 objects, photographs and non-circulating books are preserved and protected through the Museum's Archives Center and Library.

We hope you will consider a donation to the Petroleum Mu-

seum. Over 75 percent of the donations received are used for our programs, and every amount helps! Your donation may be designated for a specific program, or it may be a gift to meet the Museum's most pressing needs. If you choose to donate privately, check for matching funds through your employer.

We are dedicated to preserving our cultural history, promoting science education and serving as an advocate for the petroleum industry. We hope you will join us in this unique and important mission.

Best wishes to you and your family this holiday season. To donate online, go to www.pbpetro.org or contact Luanne Thornton at lthornton@petroleummuseum.org or 432-683-4403.

Join Now For End-of-Year Perks

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

Welcome to our newest and renewed members of the Museum from August 21 through December 4, 2018!

Contributing Family

Mr. & Mrs. James B. Curry
Jennifer & Jason Darby
Susannah & Briggs Donaldson
Susann & Thomas Elliott
Laura Ferguson

Mr. & Mrs. Robert Fuentes
Mr. & Mrs. Chase Gardaphe
Mr. & Mrs. Cutler Gist
Trevor Hawes
Nita Helmer
Stephanie & Nathan Huhn
Angela & Bryant Hunt
Rachel Klubal
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Memorials

Memorial contributions to the Petroleum Museum are deposited in the permanent endowment fund to provide ongoing tribute to the individuals recognized in bold. Donors are listed below the honoree. Contributors from August 21 through December 4, 2018, were:

IN MEMORY OF...

John David Munn
Arlen Edgar
Joe P. Liberty

Ted Collins, Jr.
William Gipson

George Thomas
Mr. & Mrs. Budge McDonnold

APPLAUSE, APPLAUSE

We want to 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
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CUDD Pressure Control (Odessa, TX)
Midland College Chemistry Department
Midland College Engineering & Physics Department
NewsWest 9
Sibley Nature Center
Stallion Oil Field Services
Texas Tech Health Sciences Center Research Department

Notable Dates

DECEMBER

December 18

Brown Bag Lunch & Lecture Series
Christmas Music Celebration
11:30 a.m. to 12:30 p.m.
Free Admission. Drinks & dessert provided.
Sponsor: **Texas Pecos Trail, Norma J. McGrew, and Mr. & Mrs. Max Wright**

December 24 & 25

Merry Christmas!
The Museum will be closed on Christmas Eve and Christmas Day.

JANUARY 2019

January 1

The Museum will be closed on New Year's Day.

January 15

Brown Bag Lunch & Lecture Series
Speaker: Dr. Rebecca Babcock
UTPB: Retrospective Overview – Humanities in the Boom & Bust Cycles in the Petroleum Industry
11:30 a.m. to 12:30 p.m.
Free Admission. Drinks & dessert provided.
Sponsor: **Hahl Proctor Charitable Trust, Bank of America, N.A., Trustee & Norma J. McGrew**

January 24

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

FEBRUARY

February 5

Building Bots
Robotics & Engineering FunLab
5:30 to 7:30 p.m.; Grades K-2
Pre-registration required. Register at www.pbpetro.org.
Sponsor: **Anadarko Petroleum Corp.**

February 19

Brown Bag Lunch & Lecture Series
"Geological History of Earth" Documentary
44-minute film
11:30 a.m. to 12:30 p.m.
Free Admission. Drinks & dessert provided.
Sponsor: **Hahl Proctor Charitable Trust, Bank of America, N.A., Trustee & Norma J. McGrew**

February 19

Building Bots
Robotics & Engineering FunLab
5:30 to 7:30 p.m.; Grades 3-6
Pre-registration required. Register at www.pbpetro.org.
Sponsor: **Anadarko Petroleum Corp.**

MARCH

March 5

Building Bots
Robotics & Engineering FunLab
5:30 to 7:30 p.m.; Grades K-2
Pre-registration required. Register at www.pbpetro.org.
Sponsor: **Anadarko Petroleum Corp.**

March 7

Discovering Hidden Treasures
Learn about the process of vintage jewel and gem appraisals. Bring your own "treasures" for a brief consultation and hear from gemologist appraiser Thomas Elliott.
Thomas B. Elliott, GHG, GIA, Catalyst Gems
5:30 to 7:30 p.m.
Free ticketed event. Call for reservations or go online to www.pbpetro.org.

March 18

STEAM Sprouts
9:30 to 10:30 a.m. **OR** 11:30 a.m. to 12:30 p.m.
Ages 4-5
Pre-registration is required. For more information or to register online, visit www.pbpetro.org.
Sponsor: **Occidental Petroleum Corporation**

March 19

Brown Bag Lunch & Lecture Series
Speaker: Tumbleweed Smith
Renovation of Big Spring's Namesake
11:30 a.m. to 12:30 p.m.
Free Admission. Drinks & dessert provided.
Sponsor: **Hahl Proctor Charitable Trust, Bank of America, N.A., Trustee & Norma J. McGrew**

March 19

Building Bots
Robotics & Engineering FunLab
5:30 to 7:30 p.m.; Grades 3-6
Pre-registration required. Register at www.pbpetro.org.
Sponsor: **Anadarko Petroleum Corp.**

March 25

STEAM Sprouts
9:30 to 10:30 a.m. **OR** 11:30 a.m. to 12:30 p.m.
Ages 4-5
Pre-registration is required. For more information or to register online, visit www.pbpetro.org.
Sponsor: **Occidental Petroleum Corporation**

APRIL

April 1, 8, 15, 22

STEAM Sprouts
9:30 to 10:30 a.m. **OR** 11:30 a.m. to 12:30 p.m.
Ages 4-5
Pre-registration is required. For more information or to register online, visit www.pbpetro.org.
Sponsor: **Occidental Petroleum Corporation**

April 2

Building Bots
Robotics & Engineering FunLab
5:30 to 7:30 p.m.; Grades K-2
Pre-registration required. Register at www.pbpetro.org.
Sponsor: **Anadarko Petroleum Corp.**

April 9

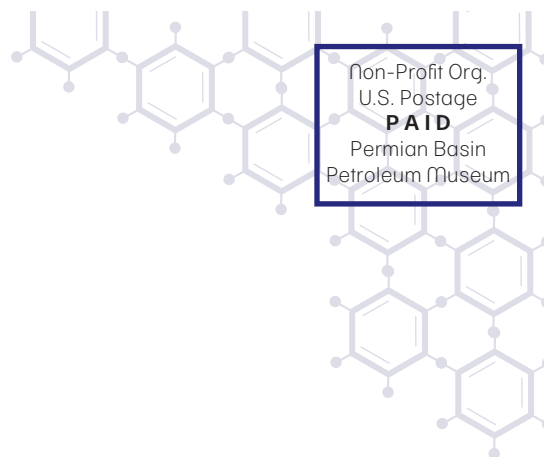
Arlen Edgar Distinguished Lecture Series
Speaker: Dr. Robert Hazen
Where Minerals and Biology Collide
7 p.m.
Free ticketed event. Call for reservations or go online to www.pbpetro.org.
Sponsor: **Abell-Hanger Foundation**

For more information about any of these programs or events, contact the Petroleum Museum at 432-683-4403 or 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.

12/18

The Museum Store



HEAT UP this holiday season with Crude Coffee Company brews, including Permian Basin Brew, Dry Hole Brew, Frac-Fluid blend, or Hallelujah Well blends in our unique industry mugs from the Museum Store. Plus, save 25 percent with code: JOLLY through December 31! 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 anytime. **Give twice this Christmas** by supporting the Museum through purchases made in the Museum Store.

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