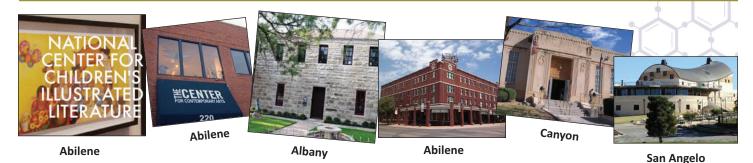




VOL. L No. 2 Second Quarter 2020



# Museum Turns to New Strategies

When the COVID-19 pandemic shut down businesses, schools and museums across the country back in March, the Petroleum Museum pivoted and looked at other methods to continue its mission of telling the petroleum story. The resulting strategy involved new ways of using online learning.

The Museum joined six other institutions from West Texas and the Texas Panhandle to create a **Joint Online Learning Initiative.** The collaboration began shortly after the closures of schools and museums in March. Our partners include **The Grace Museum**, **The Center for Contemporary Arts, National Center for Children's Illustrated Literature – all in Abilene, The Old Jail Art Center in Albany, Panhandle Plains Historical Museum in Canyon, and the San Angelo Museum of Fine Arts.** Each week, the partners work together to schedule and share each other's activities, videos, and resources.

This partnership has allowed the Museum to stay engaged in our community and to become a fixture in other nearby communities. As the other organizations are mostly art focused, this created an opportunity for us to spread some STEM (Science, Technology, Engineering and Math) experiences to new audiences and to join forces with the amazingly talented staff members of other institutions in our region.

Another exciting addition to our online content is the creation of videos posted on our social media, website, and to our new YouTube channel. We have highlighted Creature Features from our collection of live animals to teach about these amazing critters thanks to our talented education staff. Another endeavor has included adding virtual tours of the Oil Patch exhibits thanks to our Facilities Manager, James White. Recently, videos featuring the Chaparral race cars have been created by Keith Doucet, our Chaparral Car Specialist.

Although the Museum has been closed due to the COVID-19 pandemic, your Museum staff has been working hard to continue to be an educational resource in the Permian Basin and beyond through these new and expanded online opportunities and collaborations. Thank you for your continued support during this unprecedented time!

Check out the online videos of Oil Patch Tours, Creature Features, Chaparral Race Cars

> Oil Patch Remained Open For Visitors Page 3

Collaborated with Community To Make PPE Equipment Page 4



We are open for the summer!
Check out our new schedule on Page 7.
Go to www.pbpetro.org







# 

# 2020 Board of Trustees

E. Earl Baldridge, III President Will Porter Vice President **Alan Krenek** Treasurer Billy W. Harris Secretary

**Kip Agar Gregg Baiano** Kline Boyd **Danny Campbell Mark Carr Travis Counts Allen Harvey Laura Paige Innerarity** John Kennedy Sally Kvasnicka **Joe Liberty Donny McClure Mike Oestmann** Wes Perry Susan A. Spratlen Jim Woodcock **Max Wright** 

> **Kathy Shannon** Executive Director

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

# **Volunteer** Innerarity: Returning Home

Laura Paige Innerarity grew up in Midland and headed off to the big city after high school. Eventually, she moved to Denver where she worked as a landman for Anadarko for five years. "When they asked who wanted to move to the Midland office, I think I was the only one who raised a hand," she said with a laugh.

"My daughter was 2 when we moved back in early 2017. It was time for us to come home and be close to my parents. Plus, the job opportunities here were so good," she said. After a year, she was asked to serve on the Petroleum Museum Board of Trustees, and Laura Paige eagerly accepted. "This is a star-studded board and I'm thankful to be around these people and have them as my mentors."

She remembers enjoying trips to the museum as a youngster. "It's always had a special place in my heart. The Museum tells the story of the pioneers, how they got here, and the story of West

Most importantly, it tells the story of petroleum and Laura Paige saw how young people in other areas, like Denver, are shifting away from learning about the industry. It fueled her interest in the need to teach others about oil and gas.

She believes it will continue to light up the Permian Basin area with its evolving educational opportunities. "This place surprises people from big cities when they see this jewel in the desert," Laura Paige said. "A lot of science and art have come from this town. And people don't know about the race cars."

Leaving for the big city again is not in Laura Paige's plans. "Midland was a great place for me to grow up. It's where I want to raise my child."



James McLurkin

# Distinguished Lecture Rescheduled

"Dances With Robots: The Story of One Engineer, 112 Little Robots, and the Toys, Insects, and Star Wars Movies That Made It All Possible" was James McLurkin's title for the spring Arlen Edgar Distinguished Lecturer's Program. It has been rescheduled for Thursday, November 12.

McLurkin offers a lighthearted look at society's views on robots, Hollywood's portrayal of them, the current state of the art, and the future of technology. He will discuss the philosophical questions about the nature of intelligence and conceivable rise of serious problems for the creation of artificial intelligent devices.

To reserve a seat, please call 432-683-4403 or sign up on the Museum website: www.pbpetro.org.

## Mineral Gallery

# Palm Wood: Texas State Stone

Did you know that Texas has many designated symbols, all officially designated by the Texas Legislature? We all know about the state bird, the mockingbird, designated in 1927 and the state flower, the bluebonnet designated in 1971. But how about the state amphibian, designated in 2009 – the Texas Toad? Or the state cobbler, designated in 2013 - peach, if you were wondering! The Texas state dish is chili designated in 1977 and of course, the Texas state footwear is the cowboy boot, designated in 2007. And in 1967, the legislature designated petrified palm wood as the state stone, although, technically, petrified palm wood is a fossil.



Petrified palm wood is also the state gem of Washington and the state fossil of North Dakota and Louisiana. Texas palm wood grew in lush, tropical forests that covered Texas 100 million years ago. Trees that fell into mineral enriched mud fossilized rather than decayed. The wood cells were replaced over time with minerals often retaining the detailed shape of the original wood.

The unique spots or lines in fossilized palm wood are a result of fossilized rod structures within the wood. Depending on how the fossilized wood is cut, you will see either spots or lines. Petrified palm wood is extremely hard and polishes beautifully.

Come see our Texas palm wood on exhibit in the Mineral Gallery or take some home with you from the Museum Store!

# A 'Safe' Walk Through the Oil Patch

The Oil Patch is dedicated to the men of the oil fields whose hands dug the ditches, drilled the wells, produced the oil and gas and who sweated and shivered at thousands of locations around the world. Let their names be honored and voices remembered here.

There was a great variety of equipment in the oil fields (the "oil patch") in the history of the oilfield

in the Permian Basin. Steam, gas and electric powered equipment contributed to the excitement of the industry growing to meet rising demand. The Museum's 40-acre outdoor exhibit area of drilling rigs, central power units, pumping equipment, and oilfield automobiles is the largest collection of its type in the world.

Throughout the COVID-19 closure, the Oil Patch remained open to socially distant walking visitors. This unique view into the history of the petroleum industry is surrounded by natural beauty and wildlife, making this a peaceful retreat for history buffs and nature observers alike. Virtual

tours through our website, social media, and YouTube Channel have also engaged and educated many viewers during this time.

The Oil Patch is an invaluable part of the Museum's mission of sharing the petroleum story and its impact on our lives. The Petroleum Museum is so thankful to all of the incredible companies and individuals that have given to the Oil Patch Fund or have provided in-kind services to assist in preserving this vital piece of our history. Want to learn more about the Oil Patch or watch some of the virtual tours? Go to pbpetro.org/the-oil-patch/ for more information.



# Chaparral News: Amelia Island Highlights

The Amelia Island Concours d'Elegance is an automotive charitable event held each year in March at the Ritz-Carlton Amelia Island in Amelia Island, Florida. This year the Museum was asked to display two cars from its collection: the Chaparral 2 and the GS IIB. It was great to meet so many Chaparral fans and to watch people discover the GS IIB as it was the first time this car has been featured at an event outside the Museum. Our thanks to Bill Warner, founder and chairman of the Concours, for inviting the Petroleum Museum to be a part of this prestigious event.

The 2020 honoree was Roger Penske, who drove a Chaparral in 10 races and won first in four of them.





GS IIB

# Whatever Happened to Pegasus?



"The rise of cheap foreign oil in the early 1960s brought tougher times for the domestic industry. Midland suffered a population loss through most of the 1960s, as several major oil companies closed their doors and others cut staff. Many homes and offices stood vacant, and confidence was low," wrote Jim Collette in his book "Images of America: Midland."

"In 1968, a wrecking ball destroyed the Mobil Oil Building in Midland." The iconic red Pegasus "Peggy"

trademark atop the building was safely removed intact. It seemed, though, that no one knew its location. Collette wrote, "Local tradition claims the horse still resides somewhere in Midland."

Peggy was indeed still in Midland, stored in George Abell's warehouse until the Museum's renovation restored her and placed her prominently on display for everyone to enjoy. She now flies proudly in the Museum.

Check out
the original
Pegasus,
a part of
Midland's
history,
at the Museum.

# 3-D Printers Utilized to Make PPE Equipment for Area Workers

esponding to the need for more Personal Protection Equipment (PPE) surrounding the COVID-19 outbreak in our city and surrounding communities, the Museum's Education Department joined organizations across the state to help meet needs of the first responders on the front lines of the outbreaks.

Working with Texas Tech University, the Texas Tech Health Science Centers, Trinity School of Midland, Midland Classical Academy, Midland College, the Museum of the Southwest, Odessa College, and FabLab Permian Basin, we helped make headbands for face shields and ear-saver buckles with the Museum's 3-D printers. This equipment was distributed across the Permian Basin including Midland, Odessa, Lubbock, Monahans, Big Lake, Presidio, and Alpine. Not only did the headbands go to hospitals, but they were also sent to nursing homes/assisted living facilities, law enforcement agencies, colleges and universities, local doctor's offices, and more.

We were proud to be a part of this much needed project.



The Museum utilized its Affinia H800+3D Printers to print over 100 ear-savers and over 50 face shields.

# ASK Dr. Petro Explain What 'Spudding' Means in Oil Industry



Question: There is a term called "spudding" in the oil industry. What is it and how does it work?

Answer: To spud comes from the Middle English word, "spudde" meaning a short knife. In drilling for oil, "spudding" refers to the very beginning of drilling a new well.

Petroleum industry drilling technologies have evolved from the ancient spring pole drilling to percussion cable-tools to the modern rotary rigs that can drill many miles into the earth. To begin a well in the early 20th century, a guide pipe was set in the ground to keep the drill bit vertically oriented. In the very earliest times putting that pipe in place was accomplished by digging a cellar and setting the guide pipe in by hand. Later that labor-intensive process was abandoned in favor of using a spudder, a cable tool rig made for drilling shallow wells, to pound the guide pipe into the ground.

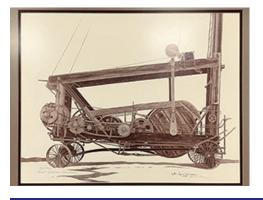
A blunt-ended cylindrical weight, called a spud bit, was placed on the end of a cable to drop, pound, and break through the rock in the ground. Frequent stops were needed as the hole became filled with chipped-away rock. The spudder would be refitted with a pipe to bail the loose material and water out of the hole. This would also give the men an opportunity to sharpen the bit.

The first documented use of a portable drilling machine in the Permian Basin occurred on January 8, 1921, with the Santa Rita #1, whose completion set off the activity that ultimately produced the first Permian Basin oil boom. Frank Pickrell was trying to keep possession of his lease on the property and was running out of time to show good faith on beginning work on the well. Not even having rig builders on the site and with only a couple of days left to begin drilling, he brought in a portable rig and began drilling a water well. He found two passing cowboys to sign an affidavit stating that drilling was taking place. The ploy worked and more than two years later, using a standard drilling rig, the Santa Rita #1 well was completed at a depth of 3,050 feet and the boom was on. So, it could be argued that the Santa Rita field would not have happened without the help of one of those portable spudders.

Today, the most complete representation of spudders can be found in the Museum's Oil Patch. Wood beam posts and wheels, archaic chains and cable systems bring back memories of the noisy, dirty, and dangerous times of early oilfield drilling.

Also: Link to YouTube video of a 1938 Wichita spudder cable tool drilling rig in action:

https://www.youtube.com/watch?v=OS30I8WHXbI



## **Archives Collection Illustrates Articles**

Did you know that in addition to our extensive archives and library, the Museum houses an amazing collection of oilfield and western art? For example, the framed piece at left illustrates the Dr. Petro article on spudders. This piece, titled "Fort Worth Spudder, 1980" is a paper print gifted to the Petroleum Museum by the artist, Paul F. Hanssen, in 1990.

For information on the archives, resource library, or items in the collection go to the website at phpetro.org or contact Archives and Collections Manager Tiffany Bradley at tbradley@petroleummuseum.org.

Donors are needed to add the remaining 10 percent for construction to begin on the new STEM Education Center. This Center will focus on STEM education and will reach students throughout the Permian Basin.



# **New STEM Center: Changing Students' Lives**

In 2006, the Petroleum Museum held its grand opening for a new Education Hall. This room served as the hub for inspiration, creativity, and learning for students across the Permian Basin who attend the Museum's educational programming. During this time, programs included Camp-Ins for local boy and girl scouts, Family Science Nights, Summer Science Classes, and Movie Camps. This room houses supplies for these programs and the Museum's educational outreach programs and the Museum's Critter Corner as well. The Critter Corner is a fascinating collection of live animals that help teach students and adults about animal classifications, adaptations, ecosystems, and more. The Education Hall has served as the foundation for every educational program the Museum has offered over the years.

That expansion helped the Museum add more programs for young people, but it has reached capacity. We are embarking on our newest project – construction of a new STEM Education Center on the Museum's grounds. This 8,000-square-foot building will house a larger education classroom, workspace for education staff, much needed additional storage, and a "science" kitchen. With this larger space, the Museum will be able to double the number of programs offered while continuing to create a fun, inspiring workspace for students in the Permian Basin. With the continued use of the current Education Hall plus the new STEM Education Center, the Museum will be reaching more students throughout the Permian

Basin and supporting future generations.

Thanks to the generous support of the Scharbauer Foundation, the FMH Foundation, the Mabee Foundation, the Abell-Hanger Foundation, the Wayne and JoAnn Moore Charitable Foundation, Concho Resources, Inc. and Pioneer Natural Resources, and many other donors, the Museum has raised 90 percent of the funds needed for this much needed addition. With your support, we will begin construction as early as January 2021.

No gift is too small! Your generous donation can help buy chairs that will serve as the foundation of children's love for science as they build and code a robotic rover or create their very first chemical reaction. Your gift could provide a collaborative workspace for students to develop 21st century skills in critical thinking, problem solving, flexibility, and communication. Or, it could help construct shelves to hold maker materials such as art supplies, motors, wires, tools, and much more.

Your generous support will provide the opportunity for children to open their minds and develop their potential in a world full of wonder, creativity, growth, and inspiration. We hope you will be a part of finishing out this important capital campaign!

Be a part of the future! Contact Luanne Thornton at Ithornton@petroleummuseum.org at 432-683-4403 for more information about donating to the STEM Education Center.



# Family Science Night: "Out of This World" 6:30 to 8 p.m. Thursday, September 10, 2020

Blast off into science with us at our "Out of This World" Family Science Night on Thursday, September 10, from 6:30 to 8 p.m. Channel your inner astronomer as you create your own constellations, make your own rocket, code a science rover, ex-Chevron periment with moon craters, and more! Museum Members enjoy the added bonus of early admission from 6 to 6:30 p.m.

Special thanks to Chevron for making this FREE science-packed night possible!

## Don't Miss Out On All the Fun!

Are you ready to return to the fun of Family Science Nights? Mark your calendar with these dates:

September 10: Out of This World October 31: Grossology

January 21, 2021: Journey Through the Jurassic

April 15, 2021: Wild for Wildlife

# Keep the Learning Going at Home

Need interactive educational resources for your kids or grandkids at home? We have a wonderful solution for you at www.pbpetro.org/kids-corner/.

This page features Petroleum Museum tried and true experiments and maker challenges, Creature Feature videos, and links to outside STEM content. Engage with us online and be sure to share your pictures and experiences via social media at @petroleummuseum, #petroleummuseum and #PBPMSTEM.

# GIVE: Museum Responding to Changing World

ver the last few months, the Petroleum Museum has rapidly and creatively responded to the pandemic with alternative ways to serve the community and carry out our educational mission. Some changes might be short-term while other successful strategies could become more longterm. The Museum has discovered new audiences and ways to be part of the area communities' educational and social ecosystems.

As one of the Permian Basin's most trusted cultural experiences, the Petroleum Museum exists to share the story of our heritage which includes the petroleum and energy story and its impact on our lives. It is still necessary to ensure the integrity of our mission of educating all who experience the Museum virtually or in person. Additionally, we strive to ensure the safety of our patrons and staff, and the preservation of Museum collections both in storage and in exhibition spaces.

In this time of crisis and aftermath, the Petroleum Museum's core standards and ethics are more important than ever. They foster transparent, smart, and consistent decision-making; help manage risk and safeguard collections; and sustain the public's trust in

One fundamental truth gives us hope – that together we can do extraordinary things. We have seen the entire world come together to stand up, help out, give back and heal through unity and giving.

You can make the difference! Please support the Petroleum Museum

**GIVE** - No amount is too little! There are many ways to participate in sustaining the Museum.

FOLLOW - Follow us on Facebook and Instagram.

**SPREAD THE WORD - Encourage** friends and family to join you in creating a real impact in the Permian Basin.

Call, email or go online at www.pbppetro.org to donate to the Museum. Luanne Thornton can assist you at 432-683-4403 or

Ithornton@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 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 from February 25 through June 8.

## **Contributing** Family

Mr. & Mrs. Eric Brorman Mr. & Mrs. Daniel Byerley Lacey & Marshall Early

Debbie & Jonathan Evans B. Pat Grav Geriann Green

Katelyn Haley Ashley Hayden

Sarah Hernandez

Christopher & Premila Johnson

Laura Jones Carolyn King

Tricia Lavenson

Keri Stedman Mathis

Mr. & Mrs. Don McClurg Thomas B. Meadows, III

Mr. & Mrs. Kai Murrow

Alexandria Rose Mr. & Mrs. Robert Shelton

Erica & Chris Stoltz

PJ Thompson Julie Turner

Mr. & Mrs. Randolph Wilson Frances Zollinger

## Friend

Deb Bohac Julie Cole

Marmie & Kennth Putnam

## Associate

Linda Cowden Arlen Edgar

## Supporter

Bob & Pam Leibrock Phyllis Stine

# **Energy Circle**

**Patron** 

**Community National Bank** 

Ferrell Davis

Discovery Operating, Inc. **Dynasty Wireline Services** 

Russell K. Hall & Associates, Inc.

Allen Harvey

Marshall & Winston, Inc. Mr. & Mrs. Herb Wacker

## Sustainer

Mr. & Mrs. Trey Grafa Henry Resources LLC **OGX Resources** Mr. & Mrs. Jeff Sparks PBEX, LLC

## Benefactor

Mr. & Mrs. Joe N. Gifford

## **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 February 25

through June 8 were: IN MEMORY OF ...

> Benito Escobedo, Sr. Lisa & Matt Worden **Huell Ham** Vicki & Clint Hurt

Sally Melzer Kay Horchler **Art Oestmann** Vicki & Clint Hurt Clayton Williams, Jr. Lee Barberito Mr. & Mrs. Andrew Bell

Community National Bank

Mr. & Mrs. Glen J. Ellis Mr. & Mrs. Donald L. Evans Mr. & Mrs. Sidney S. Lindley Mr. & Mrs. Sam L. Pfiester Dr. & Mrs. Tulsi Singh Laurie & Miles Boldrick Mary Winterrowd Jane Wolf

# **Notable Dates**

## JUNE

#### June 10-12

Summer Science Camp: "Wild About Science"

9 a.m. to 12 noon

Ages 6-8

Museum members \$60; Non-members \$75

Pre-registration required. Go to www.pbpetro.org

**Sponsor: Apache Corporation** 

#### June 17-19

Summer Science Camp: "Mad Science"

9 a.m. to 12 noon

Ages 6-8

Museum members \$60; Non-members \$75

Pre-registration required. Go to www.pbpetro.org

**Sponsor: Apache Corporation** 

#### June 22

Movie Maker Monday: "Toy Story 4"

1 to 5 p.m. Ages 6-12

Museum members, \$10; Non-members, \$15

Pre-registration required. Go to www.pbpetro.org

**Sponsor: Apache Corporation** 

#### June 24-26

Summer Science Camp: "LEGO Simple Machines"

9 a.m. to 12 noon

Ages 6-8

Museum members \$60; Non-members \$75

Pre-registration required. Go to www.pbpetro.org

**Sponsor: Apache Corporation** 

## **JULY**

## July 6-9

Summer Science Camp: "Innovator's Playground"

8 a.m. to 12 noon

Ages 8-12

Museum members \$80; Non-members \$100

Pre-registration required. Go to www.pbpetro.org

Sponsor: Apache Corporation

## July 13

Movie Maker Monday: "Frozen 2"

1 to 5 p.m. Ages 6-12

Museum members, \$10; Non-members, \$15 Pre-registration required. Go to www.pbpetro.org

Sponsor: Apache Corporation

## July 20-23

Summer Science Camp:

"LEGO Mini Masters: Monster City"

8 a.m. to 12 noon

Ages 8-12

Museum members \$80; Non-members \$100

Pre-registration required. Go to www.pbpetro.org

**Sponsor: Apache Corporation** 

## July 27

Movie Maker Monday: "The Addams Family"

1 to 5 p.m. Ages 6-12

Museum members, \$10; Non-members, \$15

Pre-registration required. Go to www.pbpetro.org

Sponsor: Apache Corporation

## July 29-30

STEAM Sprouts in Nature

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. Go to www.pbpetro.org

## **AUGUST**

## August 5-6

STEAM Sprouts LEGO Maker

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. Go to **www.pbpetro.org** 

### August 10

Movie Maker Monday: "Abominable"

1 to 5 p.m. Ages 6-12

Museum members, \$10; Non-members, \$15

Pre-registration required. Go to www.pbpetro.org

Sponsor: **Apache Corporation** 

## **SEPTEMBER**

## September 10

Family Science Night

"Out of This World"

6:30 to 8 p.m.

6 p.m. Early Admission for MEMBERS ONLY

Hands-on Science Experiments & Activities

Free Admission

Sponsor: Chevron

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

# New Garage For Museum Vehicle

The Museum is growing yet again with a new garage on site. This building is the perfect home for the Museum's Suburban, trailer and other items that have been stored off-site. Expect to see the Museum Suburban out and about more often!



## 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:

H&P Drilling, Inc.
Phoenix Construction



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

**Address Service Requested** 

Non-Profit Org. U.S. Postage **PAID** Permian Basin Petroleum Museum

Newsletter Underwritten by:



# Museum Staff

KATHY SHANNON **Executive Director** LUANNE THORNTON Development Director MARA BLAND Education/Marketing Director LISA WORDEN Finance Manager JAMES WHITE Facilities Manager TIFFANY BRADLEY Collections Manager CHANNON GREGG Museum Store Manager STACIE HANNA Marketing Consultant

LETTY RUBIO Office Manager JENNY STUBĖS Outreach Coordinator GEMMA LOPEZ **Tours Coordinator NANCY GRIGSBY** Museum Store Assistant GARY KING Museum Store Assistant RICHARD WATKINS Facilities Assistant KEITH DOUCET Chaparral Specialist LANA CUNNINGHAM Public Relations Consultant

Museum Bit & Bytes is published quarterly by the Petroleum Museum. For more information call 432-683-4403 or visit the website at pbpetro.org. 6/20

## The Museum Store



Shop to Support the Museum! Did you know there are many ways to support the Museum just by shopping? Our on-site Museum Store is open, but you can also shop online from the comfort of your home at pbpetro.org/shop. Select store items are also featured on Trunkline, an online oilfield marketplace at trunkline.com/store/petroleum-museum/. Amazon shoppers can go to smile.amazon.com and choose Permian Basin Petroleum Museum Library and Hall of Fame as the nonprofit you would like to support. A percentage of your donation will come to the Museum.

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