To set the foundation for students in our community to become the innovators of tomorrow, the Petroleum Museum provides a variety of programs that focus on developing critical thinking, problem-solving, and social skills while also tapping into their natural creativity and curiosity through hands-on exploration, inventive challenges, and creative projects.

Occupations centering around STEM (Science, Technology, Engineering, and Math) have grown 24 percent in the last few years, making it important to equip the next generation with the skills needed to thrive in their future careers, as well as their everyday lives. STEM-based education not only teaches students about science and math, but it also helps students learn and develop 21st-century skills such as media and technology literacy, productivity, social skills, and flexibility. STEM-based education helps students develop these skills regardless of what career path they choose. It also enables them to become critical thinkers and problem solvers while also developing their creative abilities, challenging their curiosity, building their decision-making skills, and helping shape them into future leaders of innovation. Innovation is important because it drives the growth of our economy.

Kicking off our fall lineup is our Building Bots Robotics & Engineering Funlabs for students in kindergarten through sixth grade. These classes provide students with opportunities to engage in hands-on engineering challenges, inventive robotic design, and creative projects. Equipment featured during these classes include our LEGO WeDo 2.0 sets, LEGO Mindstorms EV3 sets, Ozobots, Osmos, and Spheros. Each session features a different theme that will be challenging and exciting for your young engineer.

Sessions for students in kindergarten through second grade are scheduled for the first Tuesdays of September, October and November. Sessions for students in third through sixth grade are held on the third Tuesdays of the same months. Both sessions are held from 5:30 to 7:30 p.m. The cost is $25 per session for Petroleum Museum members and $30 per session for non-members. Pre-registration is required. A special thank you to Occidental for making 2021 Building Bots Robotics & Engineering Funlabs possible!

The Petroleum Museum also works to spark an interest in STEM for children before they enter kindergarten. STEAM Sprouts is a hands-on, interactive program for children ages 4 & 5. Our Fall 2021 STEAM Sprouts session features six weeks of LEGO STEAM Park curriculum that will build on every child’s natural curiosity and desire to create, explore, and investigate the world of STEAM (Science, Technology, Engineering, Art and Math) through creative play. STEAM Sprouts is held on Mondays from 9:30 to 10:30 a.m. OR 11:30 a.m. to 12:30 p.m. beginning Monday, September 13. Each class will include cooperative engineering tasks, social development, and inventive tasks. The cost is $80 for Petroleum Museum members and $100 for non-members. Pre-registration is required. Participants must sign up for the entire six-week session as classes will build upon each other. Thank you to SM Energy for making STEAM Sprouts possible.

Wondering what to do with your child during the upcoming fall break? Check out the new STEAM Break session on Page 5.
Will Porter knows not only the history of the Petroleum Museum like the back of his hand, but also every nook and cranny. A native Midlander whose father was a geologist and a Museum volunteer, Will often accompanied his dad when giving tours.

“I’ve been associated with the Museum since they opened the doors (in 1975),” Porter said. “Dad was a member of the Santa Rita Club and loved teaching people about the oil and gas business.”

Porter’s desire to follow in his dad’s footsteps led him to work in the energy industry at McClure Oil Company. Donnie McClure was serving on the board and recommended Will for an upcoming position. That was 11 years ago. Next January Porter will tackle a two-year term as Board President. He is one of those rare board members who can reflect on how far the Museum has come since the early years and look to the future.

Locating the Museum on Interstate 20 was one of the best decisions anyone made, he noted. “We are now the No. 1 attraction in Midland for visitors. Being on I-20 the Museum offers easy access to visitors.”

A few years ago, the Museum completely renovated the petroleum exhibits and brought its technology into the 21st century. On August 24, the Museum broke ground for a new $6 million STEM Education Center. “This will serve kids of all ages and it’s another way the Museum can reach out to the community to assist kids who are interested in science,” he said.

Growing the membership will be another focus for Porter. “So many things are going on throughout the year there. A lot of people don’t know that it’s a great place for parties. I just finished helping a group host a rehearsal dinner there. We want to get the word out about having special events at the Museum where people have an opportunity to look around and experience something completely different.”

“The staff has done an incredible job, especially keeping the Museum going during the down time last year. They raised money to keep the doors open and make the Museum grow. This is not a static Museum. I love that Museum. It has a special place in my heart.”

The holidays are right around the corner and we’re excited for all the festivities and parties here at the Museum.

Whether you’re looking to hold a company Christmas party or host a “Friendsgiving” dinner, we’ve got unique spaces to accommodate events of any kind.

Available dates are starting to fill quickly, so call or email today to reserve your date or to schedule a tour of the museum to see our available spaces. Contact us at 432-683-4403 or rentals@petroleummuseum.org.

**Giving a Lift to UT’s Santa Rita No. 1**

The Museum was pleased to help The University of Texas bring its Santa Rita #1 back to life on campus. The rig was moved to Austin in the 1940s and now sits along Martin Luther King Jr. Boulevard.

If you were a student on the campus of UT at Austin up until a few years ago, you may remember the voice of the Santa Rita No. 1. For decades, through a well-concealed PA system, the rig told a tale of Texas, narrated by late UT professor Carl J. Eckhardt. It delighted, surprised and annoyed generations of passersby.

The University is working to restore the rig to running condition and, fortunately, Wes Goodwin of Goodwin Consulting, one of men working on the project, was coming through Midland and stopped by the Museum. Facility Manager James White took him through the Oil Patch and talked to him about what it takes to keep these antique machines running. We look forward to helping revive another important piece of Texas history.
Get a Taste of Museum After Hours

Mark your calendar for Thursday, September 9, for BITS, BITES & BREWS! This is an exclusive members only after-hours evening starting at 5:30 and ending at 8 p.m! Museum Members and the Chaparral Pit Crew Fan Club are invited to come and bring a guest that is NOT a member to introduce them to everything the Museum has to offer.

Witness history with a live drive of the Chaparral 2J, immerse yourself in the Oil Patch as it comes to life, and experience the beauty, history, and science of the Museum’s exhibits. Beer, wine and hors d’oeuvres will be served featuring Tall City Brewery and Midland Meat Market.

RSVP today at www.pbpetro.org or call 432-683-4403.

Astronaut Virts: A View from Space

Sometimes, a little distance is all you need to see things in a new way. For astronaut Terry Virts, his newfound perspective was from the International Space Station (ISS), where he installed the Cupola module, granting an unprecedented 360-degree view from the station. When he later became commander of the ISS, he made good use of the Cupola, taking more photographs than any astronaut who had come before him. Many of those images were later used in the National Geographic book View From Above and IMAX film A Beautiful Planet. To hear Virts tell it, no photo can capture the perfect shade of blue from a sunrise viewed from outer space.

The Petroleum Museum, through the support of the Abell-Hanger Foundation, is excited to welcome NASA Astronaut Colonel Terry Virts on Thursday, September 23, at 7 p.m. Colonel Virts will share his fascinating story as the Museum’s next Arlen Edgar Distinguished Lecture speaker. Tickets are free for this event, but please register online at www.pbpetro.org or call the Museum at 432-683-4403 for reservations.

Crinoids Almost Went Extinct

The Petroleum Museum has collected and displayed both minerals and fossils since 2012. Our mineral gallery has an amazing diversity of minerals from around the world. But one must look a little harder to find fossils!

This crinoid specimen resides in the Museum offices. Originally purchased at the Tucson Gem and Mineral show for the renovation of the petroleum exhibits, it finally found its home in the offices. Crinoids are particularly interesting creatures, being that they are related to starfish, sea urchins, and sea cucumbers. Although they resemble a flower, they are echinoderms, animals with rough spiny surfaces. Crinoids are famous for their feathery, tentacle-like appendages that opened up like a flower and captured particles of food such as plankton. These creatures have lived in the world’s oceans for over 485 million years, maybe longer.

Crinoids came close to extinction toward the end of the Permian Period, about 252 million years ago. The fossil record shows that nearly all crinoid species died out at the end of the Permian period, one of the largest extinction events in the history of life. The one or two surviving lineages eventually gave rise to the crinoids populating the oceans today. These modern crinoids are an important source of information about how the many different extinct crinoids lived. Crinoids have had a long, successful history on Planet Earth – so stop by and see the Museum’s next time you are out!
Area Teacher Interns Added Knowledge to Camps

The Petroleum Museum’s Education Department employees spent the summer helping students explore the world of STEAM (Science, Technology, Engineering, Art, and Math). We engaged 4- and 5-year-olds in LEGO Coding and nature-themed STEAM activities. Our 6- to 8-year-olds marched full STEAM ahead into camps geared specifically to their age group. We challenged young engineers with LEGO engineering and 3D design in our camps designed for students ages 8 to 10. Our summer was jam-packed with science, innovation and fun. Special thanks to SM Energy for sponsoring our 2021 STEAM Sprouts Mini Camps.

To make these classes possible, we offered internships to teachers in the surrounding communities. Teachers from Midland ISD and Ector County ISD helped with the STEAM Sprouts Mini Camps, Summer Science Camps for students ages 6 – 12, and Movie Maker Mondays. Students created meaningful connections with teachers and received one-on-one instruction while the teachers gained a deeper insight into what STEM education might look like in their own classrooms. We greatly appreciate their hard work and dedication to the students that attended our programs this summer.

Family Science Night 2GO: Spooky Science Fun

“Spooky Science Spectacular” Family Science Night 2GO brings the fun quality science education that you are accustomed to receiving during Family Science Night to the comfort of your own home. Each Family Science Night box comes equipped with all the supplies and information you need to conduct eight spooky science experiments and creative activities. Have a SPOOKTACULAR time as you experiment with fizzing pumpkins, create spider web slimes, party with dancing ghosts, and much more.

Join us if you dare for our “Spooky Science Spectacular” Facebook demonstration on **Thursday, October 28,** at 6:30 p.m. Signup for boxes will open on **Thursday, Sept. 16.** Visit [www.pbpetro.org](http://www.pbpetro.org) for more information. We would like to extend a special thank you to [Chevron](https://www.chevron.com) for making this FREE educational experience possible!

ASK Dr. Petro

How Reliable is Green Energy for Grid?

The narrative in all the news these days seems to center on energy. Unfortunately, the loudest voices focus on the “evils” of petroleum. We in the Permian Basin, however, know that energy fuels not only our economy, but the economy of our country. But how do we talk about energy, how do we support our industry and, most importantly, how do we educate people about our industry?

The Petroleum Museum wrestles with this topic every day! One of the resources we rely on is the **Life:Powered** website. **Life:Powered** exists to raise America’s energy IQ” and they do this through their website and speakers.

Here are some interesting facts that **Life:Powered** uses to help talk about energy and we often refer to these facts and figures to help begin constructive conversation with visitors.

In 1977, OPEC countries accounted for 70% of petroleum imports into the United States. By 2017, that number had fallen to 33%. As the United States produces more of its own energy, our dependence on hostile and unstable nations decreases which benefits our national security.

How about all this green energy, how reliable is this “solution” to our energy grid and how does it seem to be so “cheap”? That answer is one that must be researched thoroughly to figure out. You must factor the amount of dollars in subsidies by the unit of energy produced by all of these sources. If you compare energy units over the last decade the wind energy industry received 17 times more federal funding per unit of energy produced than petroleum, and the solar industry received 75 times more federal subsidies. Even with all this funding, no progress has been made in growing wind and solar’s contribution to our energy structure as they still provide only about 4% of our energy.

Then, factoring in the intermittent nature of wind and solar resources and the large amount of land required for these sources, converting electricity and transportation to 100% renewable becomes an extremely expensive and difficult process. Tax increases and rising electricity costs, as seen in Europe, will devastate modern economies that rely on abundant, affordable and reliable energy.

One example shows that implementing the Green New Deal in Texas alone would increase the average household electricity bill by $3,200 each year.

History has proven that access to energy is absolutely necessary to reduce poverty and for humans to flourish. Life has never been better for humans. Life expectancy has increased and millions of people have been lifted out of poverty because of reliable energy.

As **Life:Powered** states, “It’s simple: Without energy, nothing about modern life – from clean running water and medical care to smartphones and online banking – is possible. It is the essential building block that touches literally every aspect of our lives.”
STEAM Break: Keep Your Kids Learning

Join us for STEAM Break at the Petroleum Museum! STEAM Break is designed to assist parents during MISD’s fall and spring breaks. Our Mad Science STEAM Break will be held October 20 – 22 and will have three session options available.

Parents can register their young scientist for our morning session from 8 a.m. to 12 noon, our afternoon session from 1:00 to 5 p.m., or our all-day session from 8 a.m. to 5 p.m. The morning session will feature experiential learning through Mad Science themed experiments, engineering challenges and inventive projects. The afternoon session will feature hands-on experiments, collaborative engineering projects and games all centered around a popular kids’ movie. The movie line-up for the Mad Science STEAM Break includes Hotel Transylvania: Transformia, The Addams Family 2, and The Book of Life.

STEAM Break is open to students in first through sixth grade. Pre-registration is required.

What Your Child Needs to Bring:
A.M. Session Only:
• A labeled water bottle & snack
P.M. Session Only:
• A labeled water bottle & snack
• A pillow and/or blanket (optional)
All-day Session:
• A labeled water bottle, two snacks, & a lunch
• A pillow and/or blanket (optional)

COST:
A.M. OR P.M. session ONLY: $75 for Petroleum Museum Members, $90 for Non-members.
All-day Session: $145 for Petroleum Museum Members, $175 for Non-members.

Add On Options:
Early drop-off at 7:30 a.m. (A.M. & all-day session ONLY): $15 ($5 per day)
Late pick-up from 5 to 6 p.m. (P.M. & all-day sessions ONLY): $30 ($10 per day)

Make Plans For Spring 2022 STEAM Break

Love & LEGO STEAM Break: February 7 – 11, 2022 (Monday – Friday)
Session Options: 8 a.m. to 12 noon, 1:00 to 5 p.m., or 8 a.m. to 5 p.m.
Science Behind Sports STEAM Break: March 7 – 11, 2022 (Monday – Friday)
Be sure to watch your inbox for more details pertaining to our Spring 2022 STEAM Break camps.

Targeting Service to Community

Volunteers have been at the heart of the Petroleum Museum since its opening in 1975. From greeting visitors as they arrive to helping document and archive the Museum’s ever-growing collection to guiding school groups on their tour of the Museum, volunteers have played an integral role in the Museum’s history. This year, the Museum has had the opportunity to work with Team Members from our local Target to volunteer with several of our educational programs. We extend a special thank you to Target for valuing not only the need for volunteers in our community, but the Petroleum Museum as well.

Below is some insight from local Team Members who have volunteered at the Museum:

Q: “Why do you think it is important to volunteer within our community as a Target Team member?”

A: “Volunteering as a Target Team member in the community shows that we, as a large corporation, care about our community and want to continue serving our guests. It’s a wonderful feeling to satisfy the needs of our community.” - Jimena Flores

A: “We believe it is important to volunteer as a family and give back to our community, show support wherever it is needed & try to make a positive impact, all while trying to encourage others to do the same! Whether it’s picking up trash in our neighborhoods, spending our time at the food bank, or helping kids at our favorite local museum! Target is all about family & we believe that family extends to our community as well!” - Kelsey James

A: “For me, volunteering allows me to connect with my community by helping to make it a better place to live for everyone. Volunteering my time as a Target employee introduces me to new people and expands my social network.” - Lisette Morales

A: “It is important to volunteer in our community because it offers essential help to worthwhile causes and widens the community. I also believe it gives you a rewarding feeling when you give time to help out our community.” - Alexia Sandoval

A: “The youth are our future! Right now their brains are like sponges, waiting to soak up as much knowledge as possible. Also, I want to be the reason someone smiles that day.” - Ray Tercero

Museum Bits & Bytes | Third Quarter | Page 5

Saturday, September 18
8:45 a.m. to 3:45 p.m.

NEED Workshop Scheduled

Calling all educators! Mark your calendar for Saturday, September 18, to attend the NEED (National Energy Education Development Project) Professional Development at the Museum. Thanks to ConocoPhillips, this workshop will be free with meals and resources provided. Engage in energy education at the Petroleum Museum this September. Register at NEED.org.
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 May 25 to August 3, 2021, were:

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Stacie & Wesley Hanna
JoAnne & Don McClurg
Norma J. McGrew
Letty & Armin Rubio
Kathy Shannon
Luanne & Randy Thornton
Lisa & Matt Worden

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**Increase in Harvest Host Visitors**

Harvest Hosts has been partnering with the Museum for many years to allow RV’s traveling through the Permian Basin the capability to stay overnight in the Museum parking lot. Recently, with technological advances enabling online reservations through Harvest Hosts, the Museum has seen a drastic increase in the number of Harvest Host guests. These visitors tour the Museum, spend the evening walking the grounds and enjoy incredible West Texas sunsets over the Oil Patch. Special thanks to Museum members and donors who enable us to maintain the Museum, grounds and Oil Patch for visitors to enjoy every day!

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Ann McCabe

**Patricia McMillan**

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**Jim Hall, Chaparrals Taking Center Stage**

The very first **American Speed Festival** will be held in Pontiac, Michigan September 30 – October 3. The M1 Concourse 87-acre automotive playground will host the first-ever all sports car and race car exposition – past, present and future. This will be a rare opportunity to get up close and personal with some of the most iconic machines ever made. Four Chaparral cars will be featured in this inaugural event which will honor **Jim Hall** at the Checkered Flag Ball. Guests at the event will enjoy the **Chaparral 2**, the **2E**, and the **2F**, all of which will make parade laps on the track. The **2K**, which won the 1980 Indianapolis 500, will also travel to the event.

It will be an exciting week in Michigan as the Chaparrals and Jim Hall take center stage for this event!

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**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 as of May 24 to August 3, 2021:

### Contributing Family

- Mr. & Mrs. Byron Adams
- Heather & Jeffrey Bahm
- Jennifer & Brian Ball
- Gabriella & Servando Baltazar
- Keriana Beck
- Diana & Spencer Blake
- Lisa Brazile
- Mr. & Mrs. Weston Bruno
- Mr. & Mrs. Michael Canon
- Alison Chando
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- Ann McCabe
- Patricia McMillan
Notable Dates

**SEPTEMBER**

**September 7**
Building Bots: Robotics & Engineering FunLab
5:30 to 7:30 p.m.
Grades K-2
Pre-registration required. For more information or to register online, visit www.pbpetro.org.
Sponsor: Occidental

**September 9**
Brown Bag Lunch & Lecture Series
Speaker: John Trischitti
"Literacy & Education in the Permian Basin"
11:30 a.m. to 12:30 p.m.
Free admission. Drinks & dessert provided.

**September 13, 20, 27, October 4, 11, 18**
STEAM Sprouts – LEGO STEAM Park
9:30 to 10:30 a.m. OR 11:30 a.m. to 12:30 p.m.
Ages 4-5
Mondays for 6 weeks.
Pre-registration required. For more information or to register online, visit www.pbpetro.org.
Sponsor: SM Energy

**September 21**
Building Bots: Robotics & Engineering FunLab
5:30 to 7:30 p.m.
Grades 3-6
Pre-registration required. For more information or to register online, visit www.pbpetro.org.
Sponsor: Occidental

**September 23**
Arlen Edgar Distinguished Lecture Series
Speaker: Astronaut Colonel Terry Verts
"View from Above"
7 p.m.
Free ticketed event. Call for reservations or go online to www.pbpetro.org.
Sponsor: Abell-Hanger Foundation

**OCTOBER**

**October 5**
Building Bots: Robotics & Engineering FunLab
5:30 to 7:30 p.m.
Grades K-2
Pre-registration required. For more information or to register online, visit www.pbpetro.org.
Sponsor: Occidental

**October 14**
Brown Bag Lunch & Lecture Series
Speaker: Rebecca Dodge
"Texas as Art"
11:30 a.m. to 12:30 p.m.
Free admission. Drinks & dessert provided.

**October 19**
Building Bots: Robotics & Engineering FunLab
5:30 to 7:30 p.m.
Grades 3-6
Pre-registration required. For more information or to register online, visit www.pbpetro.org.
Sponsor: Occidental

**October 20-22**
STEAM Break
"Mad Science"
Half-day or full-day options
Grades 1-6
Pre-registration required. For more information or to register online, visit www.pbpetro.org.

**October 28**
Family Science Night 2GO
"Spooky Science Spectacular"
FREE Family Science Experiment & Activity Boxes – all materials and information needed for experiments is included. Facebook Live demonstrations start at 6:30 p.m.
Pre-registration and pickup signups required. Go to www.pbpetro.org for more information.
Sponsor: Chevron

**NOVEMBER**

**November 2**
Building Bots: Robotics & Engineering FunLab
5:30 to 7:30 p.m.
Grades K-2
Pre-registration required. For more information or to register online, visit www.pbpetro.org.
Sponsor: Occidental

**November 11**
Brown Bag Lunch & Lecture Series
Speaker: Mayor Patrick Peyton
"The Essential Reframing of the Oil & Gas Narrative"
11:30 a.m. to 12:30 p.m.
Free admission. Drinks & dessert provided.

**November 16**
Building Bots: Robotics & Engineering FunLab
5:30 to 7:30 p.m.
Grades 3-6
Pre-registration required. For more information or to register online, visit www.pbpetro.org.
Sponsor: Occidental

**November 25**
Thanksgiving: Museum Closed!

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

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:

C&W Services/Scott Steele
Pioneer Natural Resources
Target – Midland Employees
Museum Staff

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FROM THE LITTLE LEAGUE FIELD to the big league stadium, wrap up with an oilfield blanket and your favorite hot beverage in a mug from the Museum Store. 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 anytime.