

Lecturer: How He Dances with Robots

"I don't remember a time when I wasn't building something," said **James McLurkin**, who used LEGO bricks, cardboard boxes or any other materials he could find for his creations. He combined that creativity with engineering into his role today as Senior Hardware Engineer at Google and as an adjunct professor in the Department of Computer Science at Rice University.



As the Arlen Edgar Distinguished Lecturer, McLurkin will present 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 during a presentation at the Petroleum Museum on May 21. The free ticketed event will start at 7 p.m. and is sponsored by the **Abell-Hanger Foundation**. The title for his presentation is *"Dances with Robots: The Story of One Engineer, 112 Little Robots, and the Toys, Insects & Star Wars Movies That Made It All Possible."*

McLurkin is a native of Baldwin, NY, where his parents encouraged and cultivated his inventiveness and engineering prowess from a young age. From LEGO bricks to BMX bicycling to programming self-designed video games, he continues to follow his passion of understanding where intelligence comes from, how it works, and how to construct artificial intelligence in robots.

He recognizes that philosophical questions can arise about the nature of intelligence and if those questions pose serious problems for the creation of artificially intelligent devices. His conclusion? "Robots are phenomenally unintelligent – and we should be more concerned about the next asteroid strike than a robotic rebellion," he said. Robots are still useful, McLurkin noted, and "swarms" are the future of robotics. He will explain the need for swarms of robots and the technology required to produce their group behaviors.

McLurkin holds a S.B. in electrical engineering with a minor in mechanical engineering from MIT, a M.S. in electrical engineering from the University of California, Berkeley, and a S.M. and Ph.D. in computer science from MIT. As an independent consultant, he has advised engineering projects for numerous companies including Walt Disney Imagineering and Sensable Technologies. Along with his lecturing schedule, McLurkin is dedicated to illustrating the fun and excitement in science and engineering. He has taught classes in high school and middle school, ranging from physics to civil engineering to help excite a future generation of engineers.

He researches distributed algorithms for multi-agent systems, which is software that produces complex group behaviors from the interactions of many simple individuals. These ideas are not new: ants, bees, wasps, and termites have been running this type of "software" for 120 million years. He has led research teams using some of the largest groups of robots in the world. McLurkin was a Lead Research Scientist at iRobot and the 2003 recipient of the Lemelson-MIT student prize for invention.

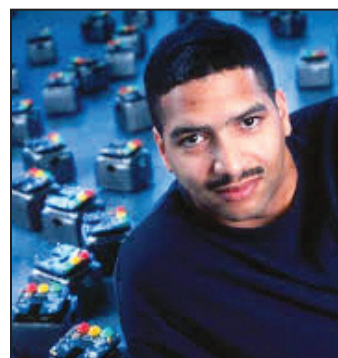
To reserve a ticket, please call 432-683-4403 or sign up on the Museum website:

www.pbpetro.org.

*Arlen Edgar
Distinguished
Lecture Series*

*7 p.m.
Thursday
May 21*

*James McLurkin
"Dances with Robots:
The Story of
One Engineer,
112 Little Robots,
and The Toys, Insects
& Star Wars Movies
That Made It
Possible"*



*Interested in your kids learning more about robotics?
Check out our spring & summer programs!
Go to www.pbpetro.org*



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Petroleum Museum,
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...exploration,
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Board News

Four Join Board of Trustees

Each January the Museum welcomes new members to our Board of Trustees. This year we are pleased to welcome **Kip Agar, Gregg Baiano, Danny Campbell** and **Mike Oestmann** to the Petroleum Museum Board of Trustees. Each of these men was elected to a three-year term and we are excited about their involvement with the Museum.

The Museum's board is a very dedicated group of people who guide the future of the Museum, assist with fundraising, and help set its goals. We are fortunate to have such a strong and committed board and are excited for our future!

Volunteer

She Was Just Helping for 2 Weeks

"Can you work in the Gift Shop for two weeks while someone is on vacation?"

With those words **Debbie Pelham** started her journey as a volunteer at the Petroleum Museum more than 10 years ago. Her father, Bob Walker, has volunteered at the Museum many years and it was he who voiced those words.

Over the years, Pelham has expanded into other areas at the Museum while continuing to spend some hours in the Museum Store.

First, she was asked to help with the puppet show, and now she docents and leads the fourth graders on tours.

"I was born into the oil industry and I married into it," she said. "I'm used to all the ups and downs and the many aspects of the industry. I've watched all the changes."

She shares that knowledge with the students and adults who visit to learn more about the petroleum industry. "I enjoy the history of the area. It's fun to see the looks on the kids' faces when I tell them things they didn't know. And sometimes adults are dumbfounded when they learn more about the industry. The Petroleum Museum does a beautiful job covering a lot of information."

The joy of educating people and feeling needed have contributed to Pelham's long tenure as a volunteer. "The staff is always very supportive and welcoming. This is my home away from home."



Mineral Gallery

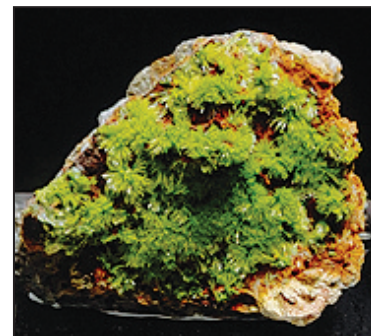
Pyromorphite On Loan

Thanks to a loan from **Carol and Karl Warning**, this pyromorphite from the Saint-Salvy Mine in Tarn, France will spend some time in the Museum's Mineral Gallery.

This fascinating green mineral is composed of lead chlorophosphate. It can occur in amounts large enough to be mined as an ore of lead. Pyromorphite often forms in crystals with a shape of a hexagonal prism although crystals with a barrel-like curvature are not uncommon. It is often found with mimetite and vanadinite. The resemblance in the external characteristics of these three minerals can be so close that it is only possible to distinguish between them by chemical tests.

Pyromorphite was first distinguished chemically by M. H. Klaproth in 1784, and it was named by J. F. L. Hausmann in 1813. The name is derived from the Greek for pyr (fire) and morfe (form) due to its crystallization behavior after being melted.

Stop in to see our newest minerals in the Gallery!



BBL Looks at Downtown Midland

"Projections for Downtown Midland" will be covered by Midland's Planning Division Manager, **Christina Odenborg Burns**, during the March 10 Brown Bag Lunch & Lecture Series at the Museum. The event, which starts at 11:30 a.m., is free. Drinks and dessert are provided.



Throughout the last century, downtown has played an important role in Midland's history. In 1929, the 12-story Petroleum Building – the tallest building between Fort Worth and El Paso at the time – opened during the Great Depression dubbing Midland the "Tall City." During the oil booms of the '50s, '60s, and '80s, subsequent office towers followed creating Midland's unique skyline. Today, with the recent opening of the Bush Convention Center and with Centennial Park nearing completion, it is evident that downtown is becoming a place where people want to work, live, and play. Join us for a discussion on which initiatives are taking place to further activate downtown Midland.

Brown Bag Lunch & Lectures are held monthly at the Museum. The April 14 lecture will feature hydrologist **Gilbert Van Deventer** with Trident Environmental. He will focus on the "Realities of West Texas Sink Holes." Speaking at the May 12 lecture will be **Samantha Carrell**, executive director of Teen F.L.O.W. on the topic of "Where Leaders are Made." The June 9 meeting switches to a video, "In Search of History – Ancient Inventions: A History Channel Documentary."

Sponsoring the Brown Bag Lunch & Lectures are Norma J. McGrew & Hahl Proctor Charitable Trust, Bank of America, N.A., Trustee.

March 10
Brown Bag
Lunch & Lecture

Christina
Odenborg Burns
11:30 a.m. to 12:30 p.m.
Museum Auditorium

Future Lectures:
April 14
May 12
June 9

Chaparral News: Amelia Island Appearance

The Chaparral 2 and the GS IIB were invited to be featured at the 25th anniversary of the Amelia Island Concours d'Elegance in early March. Several extraordinarily rare mid-engine Chevrolet Corvette prototypes were on display and the Museum's GS IIB was the headline feature. This one-of-a-kind car made its first appearance outside the Museum's Chaparral Gallery.

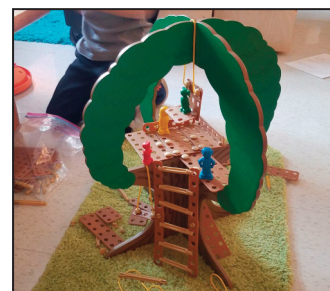
"The Mid-Engine Corvette Class is a dream class," said Bill Warner, founder and Chairman of the Amelia Island Concours. "Having a historically significant car at The Amelia that's never been seen in a concours before is a dream for us. Thanks to Chaparral and the Petroleum Museum that dream has come true."



Education Trunks Travel to Area Schools

Looking for ways to engage your students in hands-on, cross-curricular learning without spending hours of your valuable time creating lessons and preparing materials? We have the answer! The Petroleum Museum has developed a wide variety of traveling trunks available for educators in the surrounding communities to check out to utilize in your classroom. These unique hands-on, cross-curricular STEM teaching tools are designed to educate students while building on fundamental disciplines like science, technology, engineering, math, art, social studies, and language arts.

Each trunk contains lesson plans and activities that are aligned with the TEKS for K-12 education as well as all the supplies needed for each lesson. In addition to the existing trunks on Geology (K-2), Earth Science (3-6), Math (1-2), Robotics (1-6), Treehouse STEM (PreK-1), and Simple Machines (3-5), the Museum has added STEM in Action Trunks that cover topics in Life, Earth, and Physical Sciences. These trunks provide an easy way to integrate science, math, literacy, and engineering skills into real-world learning opportunities. STEM in Action trunks range in activities for grades PreK – 5 and can be easily adapted for one grade level higher or lower than the specified grade level. For more information, go online to www.pbpetro.org or contact our Education Department at 432-683-4403 or education@petroleummuseum.org.



Educator Development Workshop

Calling all educators! The Petroleum Museum is partnering with Region 18 to bring you a hands-on professional development workshop designed to provide ways to enable you to foster essential skills of critical thinking, creativity, communication, and collaboration all while engaging students. Join the **Tech Chicks** and discover even more STEM strategies and tools that can be incorporated across grade levels and content areas. Be prepared to build, code, engineer, solve, and have fun! This session will include opportunities to explore Makey Makey, green screen techniques, QR Codes, augmented reality, virtual reality, and more. Join us and be prepared to be challenged and inspired!

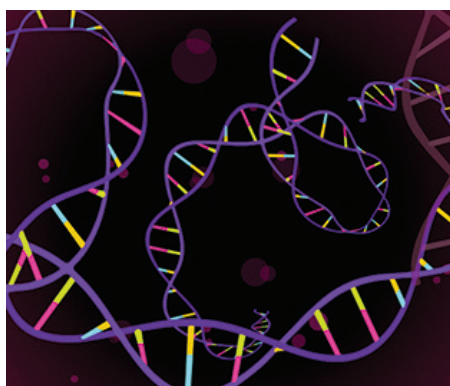
*Attendance at the fall STEM Savvy session is not a prerequisite. Lunch will be provided. Pre-registration is required.



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www.esc18.net

STEM Savvier:
Even MORE
Strategies
For Incorporating
STEM Across the
Curriculum

Saturday,
March 28
9 a.m. to 4 p.m.



Family Science Night: “Science Does a Body Good”

6:30 to 8 p.m. Thursday, April 30, 2020

Come explore the wonders of the human body on **Thursday, April 30**, from **6:30 to 8 p.m.** at “Science Does a Body Good” Family Science Night. Discover how your muscles function, create your own DNA, explore how your heart works, and much more! Museum Members enjoy the added bonus of early admission from 6 to 6:30 p.m.

We extend a special thank you to **Chevron** for making this FREE science-packed night possible!



ASK Dr. Petro

What Kind of Diamonds are Used in Drilling Bits?



A diamond is a rare, naturally occurring mineral composed of carbon. Each carbon atom in a diamond is surrounded by four other carbon atoms connected by strong molecular bonds, yielding one of the most durable and versatile substances known.

Because a diamond is composed of the element carbon, many people believe that it must have formed from coal – but that isn't true! Diamonds are not native to Earth's surface. Instead they form at high temperatures and pressures miles below Earth's surface. Most diamonds that have been discovered were delivered to Earth's surface by deep-source volcanic eruptions. These eruptions begin in the mantle, and on their way up they tear out pieces of mantle rock and deliver them to Earth's surface without melting.

Gem diamonds, sold for their beauty and quality, are diamonds with color and clarity that make them suitable for jewelry or investment use. These diamonds are rare and make up a minor portion of worldwide diamond production.

Many diamonds that are of gemstone quality but have a shape or size that cannot be profitably cut enter the industrial diamond trade. Industrial diamonds are mostly used in cutting, grinding, drilling and polishing procedures. Diamonds are also

chemically resistant and have the highest thermal conductivity of any natural material. Because diamonds are extremely hard, they are often used as an abrasive. Industrial diamonds are crushed to produce micron-sized abrasive powders or "diamond paste" that is used for very fine grinding or polishing. Small particles of diamond are embedded in saw blades, grinding wheels, and yes, drill bits.

The worldwide demand for industrial diamonds greatly exceeds the supply that can be obtained through mining. A shortage of diamond abrasives began to occur during World War II. In the 1950s, methods of producing synthetic diamonds were discovered. These methods of making synthetic diamonds became so efficient that synthetic diamond abrasives were more reliably available and less expensive than natural diamond abrasives. Today, synthetic diamond abrasives are made in hundreds of factories at a cost of under \$1 per carat – and they perform just as well as abrasives made from natural diamonds in industrial use.



Small grains of diamonds are embedded in the metal on each of the cutting tips.

2019

Permian Basin Petroleum Museum

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 continue to 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.



Year-End Profile

Education is Our Mission

Teaching All Who Walk Through the Doors

The Museum Education Department was very busy throughout the year providing tours for every age. From geology to energy to Texas history we supplemented curriculum requirements for area students from private and public schools. MISD, ECISD, Communities in Schools, Andrews ISD, Seminole ISD, Reagan County ISD, Snyder ISD, Stanton ISD, home school groups, and the YMCA took advantage of our programming opportunities. Industry professionals used the Museum for training and educating interns and new hires. Delegations from around the world including China, Russia, Africa, and the United Kingdom, visited the Museum. Several colleges including Midland College, Odessa College, UTPB, Texas Tech, New Mexico Tech, Western Texas College, University of Georgia, and Colorado School of Mines learned about the petroleum industry through the Museum's exhibits and our wonderful staff and docents.



Energizing Families Through Science Night

Now a tradition, the Museum completed its 23rd year of successful Family Science Nights welcoming more than 3,000 children and adults where families were encouraged to explore the sciences together. Children were energized by Powered by Science, they dove deep as oceanographers with Oceans, explored the world of food science with taste-bud activating experiences at Kitchen Science, and had a frightfully good time with Spookology. Thank you to our long-time sponsor **Chevron** who helps us make these events such a success.



Taking Our Programs On the Road

The Museum was out on the town! We participated in MISD Academic Summit, Chevron's Take Your Kid to Work Day, Anadarko Kids' Holiday Party, Sibley Nature Center Teacher Workshop, NAPE (North American Prospect Expo) in Houston, Permian Basin International Oil Show, and the Midland Gem & Mineral Show. We also took our programs to area private and public schools and partner organizations. Teachers and organizers chose from topics based on STEM (Science, Technology, Engineering, Math) ranging from animals, dinosaurs, fossils, geology, Indians, robotics, and astronomy. The Museum's portable planetarium made reaching for the stars even more fun while little engineers created the coolest robots with the Museum's equipment and education staff.

Focusing on Family Learning

Distinguished Lecturers Open New Worlds

In 2019, the Museum continued the Distinguished Lecture series in honor of **Arlen Edgar**. **Dr. Robert Hazen**, Senior Staff Scientist at the Carnegie Institution for Science Geophysical Laboratory and Clarence Robinson Professor of Earth Sciences at George Mason University, enlightened us with his research on the role minerals play in the origin of life. **Dr. Fredrik Hiebert**, Archeologist and National Geographic Society Fellow, shared his travels to the ancient Silk Road archeological excavation sites along the millennium-old link between Europe and East Asia. **Abell-Hanger Foundation** generously supports this lecture series.



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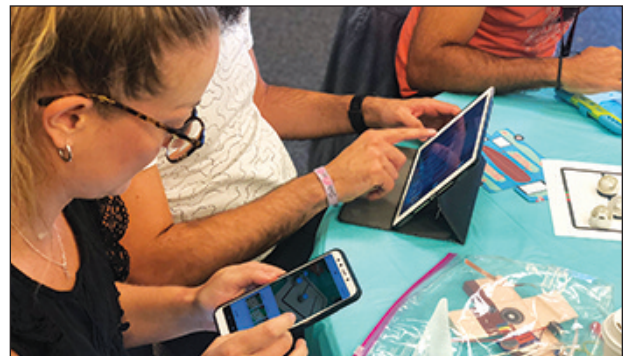
Mission Goes Beyond Museum Walls

Trunks Bring Museum to Basin Schools

The Museum's Traveling Trunks are unique cross-curricular STEM teaching tools that allow teachers across the Permian Basin to bring the Museum into their classrooms. The trunks are designed to provide hands-on experiences while building on fundamental education disciplines including science, technology, engineering, art, math, social studies, and language arts. Each trunk contains TEKS (Texas Essential Knowledge and Skills) aligned lesson plans with supplies to provide teachers with a ready-made teaching solution that can be easily integrated into the classroom. Teachers and schools can check out trunks on a first-come, first-serve basis. Trunks currently available include: Ozobots (2nd – 6th Grade), Geology (K – 2nd Grade), Earth Science (3rd – 6th Grade), Treehouse STEM (K – 1st Grade), Straw Rockets (3rd – 12th Grade), STEM in Action (K – 6th Grade), LEGO Maker Simple Machines, and LEGO MoreToMath (1st – 2nd Grade). For more information, contact the Education Department.

Educators Learn How to Teach STEM

This fall, more than 30 educators from across Region 18 attended a professional development workshop that engaged them in ways to incorporate STEM activities (Science, Technology, Engineering, and Math) across their curriculum. In partnership with Region 18, the Museum brought in the Tech Chicks who engaged participants in hands-on activities giving them a better understanding of different STEM strategies and tools that can be incorporated across grade levels and content areas. Educators participated in building, coding, engineering, and problem solving through activities including paper circuits, Ozobots, coding apps, and Spheros while also learning about the various STEM resources the Museum offers.



Sizzling Summer Programs

Summer 2019 was scientifically spectacular! More than 300 students throughout the Permian Basin enjoyed Summer Science Classes and Movie Maker Mondays at the Museum. Summer Science Classes centered around Robotics, STEM Art, and the Science Behind Sports. Students were busily engaged in fun activities and robotic design, all created to encourage young minds to explore the sciences. Movie Maker Mondays gave children the opportunity to participate in interactive experiments, collaborative engineering challenges, creative activities and games centered around popular animated movies. Thank you to **Apache** for underwriting these Summer Programs.

Apache

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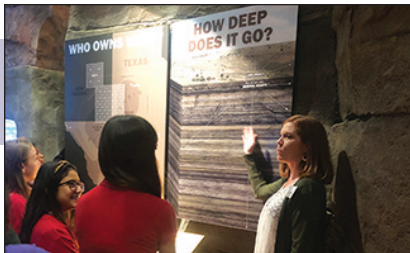
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Training Students for Future Careers

STEM, STEAM, Robots & LEGOs

STEM Gems

STEM Gems, developed in partnership with *Communities in Schools*, is an afterschool program offered to Goddard Jr. High School seventh- and eighth-grade girls that focuses on Science, Technology, Engineering and Math supplemental education. This program features STEM project-based learning that helps create real-world connections for students and increases their interest in STEM careers. The students engineered their own ecosystems, built edible atoms, and created wearable atoms – all of which reinforced what they were learning during the school day in a fun, hands-on, interactive way. They also had the opportunity to participate in a year-end field trip to the McDonald Observatory. We extend a special thanks to **Encana** for making this empowering opportunity possible!



STEAM Sprouts

STEAM Sprouts is an engaging program for our youngest scientists. Classes for 4-5-year-olds were offered in both the summer and fall. Each session focused on programming that included age appropriate experiments and creative activities designed for tinkering young minds, encouraging them to be excited about science. The Museum offered sessions featuring hands-on Fairy Tale STEAM (Science, Technology, Engineering, Art, and Math), LEGO STEAM Park, LEGO coding, and nature-based STEAM programming. In each session, children worked on hands-on engineering challenges, actively building their problem solving and collaboration skills. STEAM Sprouts was generously sponsored by **Oxy** and **Occidental**.



STEM Education Center Contributors

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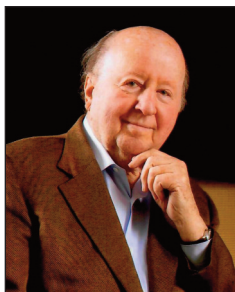
Robotics, Engineering Fun

Throughout the year, *Building Bots Robotics & Funlabs* enabled children in grades K-6 to engage in engineering challenges, team building, and robotic creative design. With different themes for each session, these classes featured LEGO WeDo 2.0 sets, LEGO Mindstorm EV3 sets, Ozobots, Osmos, Spheros, and KUBO robotics equipment. This STEAM (Science-Technology-Engineering-Art-Math) educational programming continues to be a great way to get kids excited about learning and enhance their critical thinking skills. Young minds were enlightened thanks to the generous support of **Anadarko**. Our thanks also to **ConocoPhillips** for sponsoring scholarships for area children without the means to participate and allowing us to partner with Midland Fair Havens, Greenwood ISD, and Ector County ISD.





From left, Robert C. Bledsoe, L.D. "Buddy" Sipes, Jr. and Arlen Edgar.



George P. Mitchell

The 2019 Petroleum Hall of Fame biennial event was a memorable evening celebrating the achievements of **Robert C. Bledsoe, Arlen L. Edgar, George P. Mitchell, and L.D. "Buddy" Sipes, Jr.** The Petroleum Hall of Fame is dedicated to those who cherish the freedom to dare, and whose work and service helped in developing the Permian Basin. On May 2, more than 500 people were present to honor and recognize these distinguished leaders and visionaries in the petroleum industry and community. We are most grateful to all who supported this event.

Honoring Petroleum Hall of Fame Inductees

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In honor of the lifelong friendship

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Susan Wynn

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Legacy, LLC

BBLs Offer Variety of Learning Experiences

Adults came to the Museum on a monthly basis to expand their knowledge on a variety of industry and community focused topics. *Treasures of the Earth: Gems*, a NOVA Documentary related how gemstones, precious metals and power are the building blocks of civilization. **Steve Melzer** enlightened his audience with a case study of Permian Basin CO₂ enhanced oil recovery. **Hannah & Helen Cooley** performed a beautiful Christmas music harp concert for holiday guests. Thanks to the underwriting provided by **Norma J. McGrew & Hahl Proctor Charitable Trust, Bank of America, N.A., Trustee.**



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Racecar Fans Flock to Party

The Museum hosted its 9th Annual Party on the Patio with **Jim Hall** for Chaparral Pit Crew Fan Club members with 125 guests attending. Many came from out of state, and the group headed to the Museum to watch a Live Drive of the Chaparral 2E with Jim Hall II behind the wheel. The evening continued with dinner and finished with a fascinating question-and-answer session with famed race car designer and driver Jim Hall.



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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 employee/constituent must be present for free admission)
 - 15% discount in the Museum Store
 - 15% discount on facility rentals
 - Discounts on select education programs
- MEMBERS ONLY** early access to Family Science Nights and select Special Events

Energy Circle

- All of the above
- Patron and Sustainer receive one (1) free daytime rental of Board Room
- Benefactor and Director receive one (1) free daytime rental of Auditorium
- 25% discount on all other facility rentals
- Exclusive Energy Circle events
- Featured company/organization logo in Museum publications and website

Individual

- For individuals or families
- Member must be present for free admission
- Family, \$75; Friend, \$150; Associate, \$300; Supporter, \$600*
- Energy Circle – Patron, \$1,000; Sustainer, \$2,500; Benefactor, \$5,000; Director, \$10,000*

Corporate

- For companies and corporations
- Employee must be present for free admission
- Associate, \$300; Supporter, \$600*
- Energy Circle – Patron, \$1,000; Sustainer, \$2,500; Benefactor, \$5,000; Director, \$10,000*

Organization

- For organizations and educational institutions
- Employee/constituent must be present for free admission
- Associate, \$300; Supporter, \$600*
- Energy Circle – Patron, \$1,000*



Oil Patch Preservation

Many thanks go out those businesses and individuals that made the Museum's Oil Patch come to life. Our Oil Patch holds the largest collection of antique oilfield equipment in the nation and serves to tell the diverse story of the early days of the oil industry. With the help of so many, we are able to preserve and protect industry equipment for all to learn, enjoy and even reminisce about the past or look to the possibilities of the future. Thank you to these companies and people who helped us preserve our history.

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Gemstone Expert Speaks

Gem expert **Thomas Elliott, GJG, GIA**, helped us learn about the process of vintage jewel and gem appraisals. Owner of Catalyst Gems, Elliott has more than 30 years of experience in sourcing, identifying, and valuing gemstones and in the production and sale of jewelry. Guests brought their own treasures for a brief consultation of value from Elliott after the program.



Programming/Exhibits

Air Compressor Solutions
In memory of Ron Parks
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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 ltornton@petroleummuseum.org.



Movies, Science Camps, Hands-on Fun!
Keep Those Young Minds Active All Summer Long!

Dive Into Summer of Innovation

Looking for a way to keep your young scientist engaged in learning throughout the summer? Look no further! The Petroleum Museum offers a wide variety of programs to keep young minds sharp throughout the hot lazy months.

First up in this summer's lineup is **STEAM Sprouts Mini Camps**. **STEAM Sprouts in Nature** will be held on Wednesday, May 27, and Thursday, May 28. **STEAM Sprouts LEGO Maker Mini Camp** will be held on Wednesday, June 3, and Thursday, June 4. Two identical sessions will be offered for each camp: one from 9:30 to 11 a.m. and the second from 12:30 to 2 p.m. The classes are designed to develop 21st century skills in critical thinking, communication, collaboration, and social and emotional skills. The cost is \$40 for Petroleum Museum members and \$50 for non-members. Pre-registration is required.

Next up in the 2020 summer lineup is **Movie Maker Mondays**. Movie Maker Mondays will be held on the second and fourth Mondays of June and July. Each Movie Maker Monday will feature a popular animated movie, popcorn, hands-on experiments, engineering challenges, and games. This summer we will feature *"Abominable," "Toy Story 4," "Frozen 2"* and *"The Addams Family."* Movie Maker Mondays will be held from 1 to 5 p.m. for children ages 6 to 12. Cost is \$10 per child for Petroleum Museum members and \$15 per child for non-members. Pre-registration is required. Thank you to **Apache Corporation** for sponsoring Movie Maker Mondays!

Our **Summer Science Camps**, also sponsored by **Apache Corporation**, are back this summer! For students ages 6-8, we will offer three, three-day Science Camps in June. The cost is \$60 for Museum members and \$75 for non-members. Topics will include **Wild about Science**, **Mad Science**, and **Lego Simple Machines**. For ages 8-12, we will offer two, four-day Science Camps in July. The cost is \$80 for Museum members and \$100 for non-members. Topics will include **Innovator's Playground** and **Lego Mini Masters: Monster City**. These camps will allow students to explore various science concepts through hands-on experiments, creative design projects, and engineering challenges that are designed to engage young minds. Each Summer Science Camp requires pre-registration.

To register for any of these opportunities for your young scientist, go online to www.pbpetro.org for a summer of innovation!



May 27-28
STEAM Sprouts in Nature
 Ages 4-5

June 3-4
STEAM Sprouts LEGO Maker
 Ages 4-5

June 8
Movie Maker Monday
"Abominable"
 Ages 6-12

June 10-12
Summer Science Camp
Wild About Science
 Ages 6-12

June 17-19
Summer Science Camp
Mad Science
 Ages 6-12

June 22
Movie Maker Monday
"Toy Story 4"
 Ages 6-12

June 24-26
Summer Science Camp
LEGO Simple Machines
 Ages 6-12

July 6-9
Summer Science Camp
Innovator's Playground
 Ages 6-12

July 13
Movie Maker Monday
"Frozen 2"
 Ages 6-12

July 20-23
Summer Science Camp
LEGO Mini Masters:
Monster City
 Ages 8-12

July 27
Movie Maker Monday
"The Addams Family"
 Ages 6-12

LEGO
Simple Machines
Ages 4-5
Mondays
9:30 to 10:30 a.m.
OR
11:30 a.m. to
12:30 p.m.

STEAM Sprouts Gearing Up for Spring Session

The Museum's Spring **STEAM Sprouts** six-week session will begin on Monday, March 16, featuring hands-on STEAM (Science, Technology, Engineering, Art, and Math) based curriculum for students ages 4-5. Students will start each session by designing an innovative art piece. They will continue their inventive experience by building LEGO Simple Machine projects, including pinwheels, spinning tops, rafts, car launchers, seesaws, and gears! These classes encourage young minds to work together and think creatively. Space is limited and pre-registration is required. Register online at www.pbpetro.org! Special thanks to **Occidental** for sponsoring our 2020 STEAM Sprouts program.



Membership Gives Perks All Year Long

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 as of February 25, 2020!

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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 November 5, 2019, through February 25, 2020, were:

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Notable Dates

MARCH

March 10

Brown Bag Lunch & Lecture Series
Speaker: Cristina Odenborg Burns,
City of Midland Planning Division Manager
"Projections for Downtown Midland"
11:30 a.m. to 12:30 p.m.
Free admission. Drinks & dessert provided.
Sponsor: **Norma J. McGrew & Hahl Proctor Charitable Trust, Bank of America, N.A., Trustee**

March 16, 23, 30

STEAM Sprouts
9:30 to 10:30 a.m. OR 11:30 a.m. to 12:30 p.m.
Ages 4-5
Pre-registration required. To register online, go to **www.pbpetro.org**.
Sponsor: **Occidental**

March 17

Building Bots: Robotics & Engineering FunLab
5:30 to 7:30 p.m.
Grades 3rd - 6th
Pre-registration required. To register online, go to **www.pbpetro.org**.
Sponsor: **Occidental**

March 28

Teacher Professional Development
STEM Savvier: Even MORE Strategies for Incorporating
STEM Across the Curriculum
9 a.m. to 4 p.m. Free Admission.
Kindergarten – 8th grade educators.
Pre-registration required. Register online at **www.esc18.net**
Credits: 6 CPE/Gifted Talented

APRIL

April 6, 13, 20

STEAM Sprouts
9:30 to 10:30 a.m. OR 11:30 a.m. to 12:30 p.m.
Ages 4-5
Pre-registration required. To register online, go to **www.pbpetro.org**.
Sponsor: **Occidental**

April 7

Building Bots: Robotics & Engineering FunLab
5:30 to 7:30 p.m.
Grades K-2nd
Pre-registration required. To register online, go to **www.pbpetro.org**.
Sponsor: **Occidental**

April 14

Brown Bag Lunch & Lecture Series
Speaker: Gilbert Van Deventer
Hydrologist, Trident Environmental
"Realities of West Texas Sinkholes"
11:30 a.m. to 12:30 p.m.
Free admission. Drinks & dessert provided.
Sponsor: **Norma J. McGrew & Hahl Proctor Charitable Trust, Bank of America, N.A., Trustee**

April 21

Building Bots: Robotics & Engineering FunLab
5:30 to 7:30 p.m.
Grades 3rd - 6th
Pre-registration required. To register online, go to **www.pbpetro.org**.
Sponsor: **Occidental**

April 30

Family Science Night: *Science Does a Body Good*
6:30 to 8 p.m.
6 p.m. Early Admission for MEMBERS ONLY
Hands-on Science Experiments & Activities
Free Admission.
Sponsor: **Chevron**

MAY

May 5

Building Bots: Robotics & Engineering FunLab
5:30 to 7:30 p.m.
Grades K-2nd
Pre-registration required. To register online, go to **www.pbpetro.org**.
Sponsor: **Occidental**

May 12

Brown Bag Lunch & Lecture Series
Speaker: Samantha Carrell
Executive Director, Teen F.L.O.W.
"Where Leaders are Made"
11:30 a.m. to 12:30 p.m.
Free admission. Drinks & dessert provided.
Sponsor: **Norma J. McGrew & Hahl Proctor Charitable Trust, Bank of America, N.A., Trustee**

May 19

Building Bots: Robotics & Engineering FunLab
5:30 to 7:30 p.m.
Grades 3rd - 6th
Pre-registration required. To register online, go to **www.pbpetro.org**.
Sponsor: **Occidental**

May 21

Arlen Edgar Distinguished Lecture Series
Speaker: James McLurkin
"Dances with Robots: The Story of One Engineer, 112 Little Robots & The Toys, Insects and Star Wars Movies That Made It All Possible"
7 p.m. Free ticketed event.
For reservations go to **www.pbpetro.org**
Sponsor: **Abell-Hanger Foundation**

May 27-28

STEAM Sprouts in Nature
9:30 to 11 a.m. OR 12:30 to 2 p.m.
Ages 4-5
Pre-registration required. To register online, go to **www.pbpetro.org**.

JUNE

June 3-4

STEAM Sprouts LEGO Maker
9:30 to 11 a.m. OR 12:30 to 2 p.m.
Ages 4-5
Pre-registration required. To register online, go to **www.pbpetro.org**.

June 8

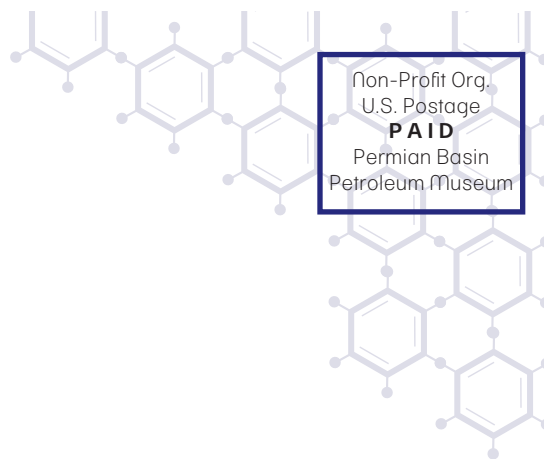
Movie Maker Monday: *"Abominable"*
1 to 5 p.m. Ages 6-12
Museum members, \$10; Non-members, \$15
Pre-registration required. Go to **www.pbpetro.org**
Sponsor: **Apache Corporation**

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

PETROLEUM MUSEUM

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WTG Fuels ~ GASCARD

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The Museum Store



Race into the Museum Store this spring! Shop for racing fans of every age with Chaparral gear and kids' racing toys! 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.

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