PETROLEUM Bits Bytes

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Fourth Quarter 2017



Compare the two Tom Lovell drawings of "Captain Pope's Well" and notice the different details between the early drawing on the left and a later drawing on the right as he refined his ideas.

The Museum is excited to announce the acquisition of seven **Tom Lovell** working drawings created when he was commissioned by the Abell-Hanger Foundation to paint 14 pieces for the Petroleum Museum. His work reflects the rich cultural history of the Permian Basin. Lovell was well known for his devotion to detail and accuracy, and his love of history came to fruition with the commission from Abell-Hanger in 1969. He left his 40-year career as an illustrator to begin a new journey. This remarkable opportunity was a turning point in Lovell's career as he began concentrating on Native American life, exploration of the West and Western art.

The drawings were purchased from collector Paul Zecchi and his wife, Patti. Long-time art collectors, the Zecchis compiled their Lovell working drawings collection over a 12-year period. These drawings were on loan to the Museum in 2009 when the Museum combined the Zecchis' pieces with Lovell's working drawings from the Museum collection. The addition of these large working drawings will allow visitors to experience the meticulous detail Lovell achieved in his paintings.

Lovell studied volumes of research materials to have even the smallest details accurate. The drawings depict Lovell's attention to detail and composition as he develops the story in his painting.

The Museum's paintings have always told the colorful story of our cultural history in the Permian Basin and now our visitors will be able to have a glimpse of how an artist's mind created these historical masterpieces.

Look for an official opening of these working drawings in the Spring of 2018!

Another Tom Lovell working drawing shows the early ideas for "Fast Mail to Carlsbad." Museum Acquires Lovell's Working Drawings





Volunteer Baldridge: Oil Flows in Veins

• ome people say blood is thicker than water, but **Earl Baldridge** switches that to "oil is thicker than blood," and oil is what flows through his veins. A third generation oilman, Baldridge saw the only career path for him was the petroleum industry.

Both grandfathers worked in the industry as did his father. Earl's grandfather, Rayford Burton, is honored in the Petroleum Hall of Fame for his career. "My mother also was active in the Petroleum Museum," he said.

When Baldridge was asked six years ago to serve on the Museum board, he didn't hesitate. Today, he serves as Programs and Exhibits Chairman, which focuses mainly on educational programs.



"The bulk of the time is spent on special programs at the Museum, be it educational outreach, the emphasis on STEM (science, technology, engineering and

The Museum is focused on building educational programs that focus on STEM and working with public schools and area colleges. "We are determined to be an outreach to the schools and working with them on their STEM education," he added. "How can we reach these students and interest them in the STEM curriculum? The Museum with its new exhibits and robotics programs perfectly inter-

The Museum could be viewed as the story of his family's work in the industry. "The old exhibits were about the hard work and the steel and the iron used in the early days," Baldridge said. The recent renovation upgraded the exhibits to reflect technology in the industry today. "The older exhibits showed technology no one uses anymore."

After working with Texaco five years, Baldridge headed out in 1992 as an independent, first as a consultant and now with Three Span Oil and Gas, an exploration and production company.

The museum continues to update its programs to reflect the increased focus on STEM, STEAM (the A stands for Art) and robotics.

"The Museum is an extraordinary asset for the city and the Permian Basin," Baldridge said.

Mineral Gallery

Texas State Icons

Can you name the Texas State Gem? How about the Texas State Stone? The Petroleum Museum can help you out! The Museum's Mineral Gallery proudly features both of these unique state symbols. Texas designated petrified palmwood as the official state stone in 1969. Although West Texas is now arid, this area was a lush tropical forest 100 million years ago. Trees that fell into our mineral-rich mud became petrified wood, which fossilized as a quartz-like stone. The spotted look of palmwood is caused by fossilized rod-like structures from the original wood. If the stone is cut cross-wise, these show up as spots. If cut



length-wise, long rod shape structures appear. Texas palmwood is very hard and polishes nicely, making it perfect for unique, one of a kind jewelry pieces.

The Texas Blue Topaz was designated as the state gem in a concurrent resolution. Then, in 1977 the Lone Star cut was adopted by Texas as the official gemstone cut which reflects a five-pointed star the Lone Star of Texas. The Museum's large raw blue topaz was donated by former Midlanders Mike and Maria Steppe.

Make another visit to the Petroleum Museum to see these unique Texas pieces!



Many Thanks to Bynum!

We want to extend a special thank you to a group of students and teachers from Bynum School in Midland for volunteering every week to assist with the upkeep and handling of our exotic animals. Their love and dedication to our furry and scaly friends helps enhance our wildlife outreach program!

math), or robotics," Baldridge said.

twines with the schools."

With hands-on and computer-designed exhibits, Museum visitors gain a feel for today's industry.

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

PETRICLEUM

MUSEUM

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Historical Perspective Story of the Red Flying Horse

What Happened to Midland's Pegasus?

Flying red horses began their journey as an oil industry icon in 1911 when a Vacuum Oil Company subsidiary in Cape Town, South Africa, first trademarked the Pegasus logo. Based in Rochester, New York, Vacuum Oil built a successful petroleum lubricants business around an 1869 patent by its founder, Hiram Everest, long before gasoline was even a branded product. At first, a stylized red gargoyle adver-



tised the company, which produced the earliest petroleumbased lubricants for horse-drawn carriages and steam engines. The Pegasus trademark would prove to be a more enduring image. In Greek mythology, Pegasus - a winged horse - carried thunderbolts for Zeus.

By 1931 growth of the automobile industry expanded the Vacuum Oil product lineup to include Pegasus Spirits and Mobilgas - later simplified to Mobil. When Standard Oil of New York and Vacuum Oil combined to form Socony-Vacuum Oil Company, the new company adopted the familiar winged trademark, as did an affiliate, Magnolia Petroleum.

A rotating 35-foot by 40-foot Pegasus sign first beamed its

red neon glow atop the Renaissance Revival Magnolia Building in downtown Dallas in 1934, welcoming the first annual meeting to be held in Dallas by the American Petroleum Institute. For decades, the emblem slowly rotated above the growing city as corporate consolidations and mergers changed Socony-Vacuum ownership. In 1955 the name of the company changed to Socony Mobil Oil; in 1966 it became simply Mobil Oil.

But Midland had its own Pegasus flying above the Mobil Oil Building in the "Tall City." 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 decade as several major oil companies closed their doors and others cut their staff.

In 1968, a wrecking ball destroyed the Mobil Oil Building. George Abell had the foresight to save the iconic red "Peggy" from its doom. But for many years most Midland residents had no idea where it was.

In preparation for the renovation of the Petroleum Museum's oil and gas exhibits, Peggy was refurbished and again proudly flies in the "Birth And Growth Of An Industry" wing.

Don't Miss This Special Brown Bag Presentation!

The Crossroads of Music Archive preserves invaluable anthology of West Texas music. Andy Wilkinson is co-director of the CMA. He is a writer and singer of tales, contemporary western folk music and weaves stories about how the music came to be written.

The Lunch & Lecture Series starts at 11:30 a.m. Drinks and desserts are provided. Free admission!

Speaker for the January 16 Lunch & Lecture will be Kate Menaul with the FBI.



'Smile' While Shopping for a Cause

Check out www.smile.amazon.com for everyone on your Christmas list. It's a part of the Amazon you know, love and use all the time. When you sign on through Smile. Amazon you are supporting the Petroleum Museum with a percentage of your purchase each time you shop. It's totally secure and the site is easy to use. To get started visit www.smile.amazon.com. Let's get shopping and support the Permian Basin Petroleum Museum!



CERTIFICATE OF REDISTRATION OF TRADE WARE, No. 3982

The Pegasus began its journey as a company symbol when it was registered in 1911 in Cape Town, South Africa.

Education

Springing Into Building Bots & Minds





Looking for ways to engage your inventive engineer? Look no further than our Building Bots Robotics & Engineering Funlabs for students entering Kindergarten through sixth grade. Classes will be held the first and third Tuesdays of February, March, April and May from 5:30 to 7:30 p.m. Students will participate in teambuilding activities, engineering challenges, and creative robotic design. We will be utilizing our Lego WeDo 2.0 sets, Lego Mindstorm EV3 sets, Ozobots, Osmos, and Spheros for these science-packed, fun-filled classes. Don't miss out on this exciting opportunity to allow young tinkering minds to explore the world of Science, Technology, Engineering, Art and Math!

Bots Engage Young Minds



Date	Grade	Time
February 6, 2018	K-2	5.20 7.20 pm
	=	5:30 – 7:30 pm
February 20, 2018	3-6	5:30 – 7:30 pm
March 6, 2018	K-2	5:30 – 7:30 pm
March 20, 2018	3-6	5:30 – 7:30 pm
April 3, 2018	K-2	5:30 – 7:30 pm
April 17, 2018	3-6	5:30 – 7:30 pm
May 1, 2018	K-2	5:30 – 7:30 pm
May 15, 2018	3-6	5:30 – 7:30 pm



Promoting STEM

The Petroleum Museum is excited to announce the establishment of the **ConocoPhillips Education Scholarship Fund!** We will now be able to extend opportunities for our education programs to students and schools who do not have the resources to visit the Museum or engage in our programs because of the generous support of ConocoPhillips. Thank you, **ConocoPhillips**, for all you are doing to promote STEM education in the Permian Basin!

High Schools Tackle Robotics





The Museum hosted its third First Tech Challenge Robotics Competition on October 28th. Teams from Midland High School, Lee High School, Andrews High School, UTPB STEM Academy, Midland Classical Academy, Midland Christian, and Greenwood High School competed in the event. It was exciting to see so many young engineering minds at work overcoming challenges and obstacles!

Family Science Night: Forces of NatureThursday, January 256:30 to 8 p.m.

Channel your inner meteorologist and experience the power of nature on **Thursday, January 25,** from 6:30 to 8:00 p.m! Be blown away by wind tunnels, witness the wonder of tornadoes, experience the power of air pressure, and much more. Jump into the science behind the forces of our world and learn first-hand from meteorologists from NewsWest 9 and the National Weather Service. Go behind the scenes of forecasting severe weather and discover what it would be like



to be a meteorologist! We extend a special thank you to our generous sponsors at **Chevron** for making this free event possible. Thank you to **NewsWest 9** and the **National Weather Service** for their partnership and support of this event. Museum members enjoy the benefit of early admission from 6 to 6:30 p.m.





Partnership: TTUHSC Offers Help

We are excited to announce a promising partnership with Texas Tech University Health Sciences Center (TTUHSC). Students and professors from TTUHSC volunteered for our Spooky Science Spectacular on Halloween Night, planning and implementing a 3D blood model station, bones and guts station. Visitors also enjoyed demonstrations of portable ultrasound machines, and learned about first aid stations. We look forward to partnering with these bright minds again for future educational programs!

Memorials

Memorial contributions to the Petroleum Museum are deposited in the permanent endowment fund to provide ongoing tribute to the individuals recognized in bold. Donors are listed below the honoree. Contributors from August 30, 2017, through November 27, 2017, were:

IN MEMORY OF... Joseph B. McShane, Jr. Cynthia Byrne Lehman E. Newton, Jr. SM Energy

EXPERIENCE: Seeing New Worlds

We are excited to welcome Midland ISD fourth graders to the Museum for hands-on learning experiences in their Texas History tours. During the months of November, December, and January students are learning about the history of the Permian Basin, renewable and nonrenewable energy sources, geology, the economics of oil and much more. We appreciate our dedicated docents who make these tours a special experience and have such an impact on the young minds in our commu-



nity. Thank you also to our partners at MISD, particularly Chris Hightower, Director of Social Studies, and Superintendent Orlando Riddick for their support in making these tours possible.

Stacie Hanna, Director of Education & Marketing, and Mara Bland, Program Coordinator, recently attended the Conference for the Advancement of Science Teaching (CAST) in Houston, put on by the Science Teachers Association of Texas each year. Museum staff look for creative new ways to assist teachers in science education in the classroom and through our educational programs by bringing ideas, trainings and new resources to the Permian Basin.



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: Bison Drilling Co. Cory Callaway Executive Oil Conference – Hart Energy Hopewell Operating Midland College Chemistry Club Midland Gem & Mineral Society – Midland Gem & Mineral Show NewsWest 9 Roseland Oil and Gas Texas Tech University Health Sciences Center Tommy White Supply

End of Year

You are at the heart of everything the Museum has accomplished over the years. You encourage, elevate, and educate all who pass through the doors of this institution. Every year we strive to create new and exciting ways to share the petroleum and energy story and its impact on our lives. Your generosity and belief in the Museum's mission make it possible for us to inspire interest in the sciences and to promote a positive view of the industry.

Please consider a donation to the Museum. It may be designated for a specific program or to meet the Museum's most pressing needs. If you choose to donate privately, check for matching funds through your employer. We are dedicated to preserving our cultural history, promoting science education and serving as an advocate for the petroleum industry. You may log on to our secure website at **www.pbpetro.org** or contact Luanne Thornton at 432-683-4403 or **Ithornton@petroleummuseum.org**

Adding to Endowment Fund

Thank YOU for your *Giving* Heart! Your infusion into the Museum's permanent endowment fund maintains a healthy *heart* as well as a strong *heartbeat* for years to come – thank you for helping us build our endowment with your *life-giving* donation.

Fredda Louise Black **Bobby Bonner** In memory of Bobby Bonner W.C. Burkett Briggs & Susannah Donaldson James A. Gibbs In memory of Frank Kell Cahoon **Charlie Harris** In memory of Roy Harris Laurence Gilmore In memory of Betty Gilmore William Gipson In memory of Mrs. Jean **Banks** Tanya Godfrey Paula Haynes Anne Herbig **Orman & Bonnie Hubbard** Neil I. Jacobson In honor of Jim Hall In memory of Gregory M. Jacobson **Ruth Ann Jeffers-Calvert** In memory of Billy & Bill Jeffers

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Join or Renew Membership for Great Benefits

Welcome to our newest and renewed members of the Museum as of September 1 - November 27, 2017.

Now is the time to join or renew Museum membership. You will want to be a part of all the excitement! Museum membership has many perks beginning with free admission and store discounts. To become a member log on to our secure website at <u>www.pbpetro.org</u> or contact Luanne Thornton at 432-683-4403.

Contributing Members Family

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Notable Dates

DECEMBER

December 19

Brown Bag Lunch & Lecture Series Speaker: Andy Wilkinson "Crossroads of Music Archive in Texas Tech Southwest Collection" 11:30 a.m. to 12:30 p.m. Free admission; drinks & dessert provided.

Sponsor: Hahl Proctor Charitable Trust

December 24-25

Museum Closed! MERRY CHRISTMAS!

JANUARY 2018

January 1

Museum Closed! HAPPY NEW YEAR!

January 16

Brown Bag Lunch & Lecture Series Kate Menaul, FBI "How Do FBI's Programs Fit In with the Diverse Work in the Permian Basin?" 11:30 a.m. to 12:30 p.m. Free admission; drinks & dessert provided. Sponsor: Texas Pecos Trail, Norma J. McGrew, and Mr. & Mrs. Max Wright

January 25

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

FEBRUARY

February 6

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 pbpetro.org. Sponsor: Anadarko and Henry Resources

February 20

Brown Baa Lunch & Lecture Series Dr. Michael Webber, The University of Texas at Austin "The Thirst for Power" 11:30 a.m. to 12:30 p.m. Free admission; drinks & dessert provided. Sponsor: Texas Pecos Trail, Norma J. McGrew, and Mr. & Mrs. Max Wright

February 20

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 pbpetro.org. Sponsor: Anadarko and Henry Resources

MARCH

March 6

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 pbpetro.org. Sponsor: Anadarko and Henry Resources March 20 Brown Bag Lunch & Lecture Series Randy Wilson "How Oil Won WWII" 11:30 a.m. to 12:30 p.m. Free admission; drinks & dessert provided. Sponsor: Texas Pecos Trail, Norma J. McGrew, and Mr. & Mrs. Max Wright March 20 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 pbpetro.org. Sponsor: Anadarko and Henry Resources

APRIL

April 3

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 pbpetro.org. Sponsor: Anadarko and Henry Resources

April 17

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 pbpetro.org. Sponsor: Anadarko and Henry Resources

April 24

Arlen Edgar Distinguished Lecture Series Robbie Gries, President of Priority Oil & Gas, LLC 7 p.m. Free ticketed event. For more information go online to www.pbpetro.org Sponsor: Abell-Hanger Foundation

April 26

Family Science Night: Planet Earth 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.



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

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

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Museum Bit & Bytes is published quarterly by the Petroleum Museum. For more information call 432-683-4403 or visit the website at pbpetro.org. 12/17 Give some **SPARKLE** this Christmas with alluring mineral pieces and elegant Gem Water by VitaJuwel at the Petroleum Museum Store! 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 <u>pbpetro.org/shop</u> anytime. **Shop with purpose** to support programs and day-to-day workings of the Museum through purchases made in the Museum Store.