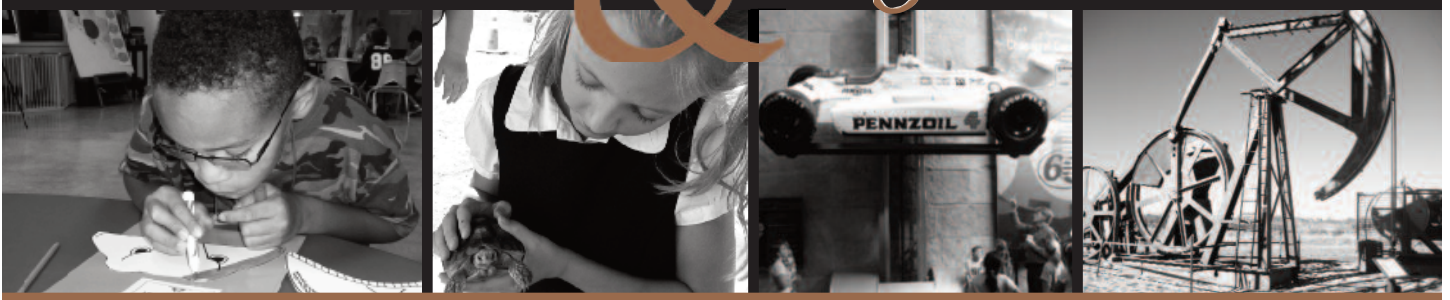


Bits & Bytes



THE PETROLEUM MUSEUM

VOL. XXXXII No. 2, Second Quarter 2014

Pardon Our Mess during Construction... We're Still Open!

With the long awaited renovation set to begin in July, Museum staff members are busy preparing for the all the changes to come. Currently, over half of the museum staff is clearing out and boxing up their offices before making the temporary move to the downtown Midland County Public Library.

Midland County generously agreed to allow Museum staff members to office out of the second floor until the Museum's new office space is completed.

Although there are several changes occurring at the Petroleum Museum, some things will stay the same. Educational Programs, Facility Rentals and the Museum Store will continue to operate as normal. During the renovation process, these departments will be the driving force behind Museum public face due to the temporary closing of the North and East wings to the public. You can't stop us from telling the petroleum and energy story and its impact on our lives!

To live up to our name for the next several months, we are developing a temporary petroleum exhibit in the front portion of the Mineral Gallery to accommodate school tours and museum visitors. We will continue to host Family Science Nights, Brown Bag Lunches and Scout Camp-Ins during the renovation. Although the set-up will be different, visitors can expect the same high-quality events. Summer Science Classes and Movie Camps will go on unaffected since these events are put on in the Education Hall – be sure to check out our **Notable Dates on Page 5** for information on our summer activities!

From trainings and meetings to fundraisers and weddings, our auditorium has proven to be a great rental facility and will continue to be a great place for your next event. For more information about facilities rentals, contact Hal Combs at 432-683-4403.

The Museum store is also stocked with new unique items ready for purchase. Visitors have a great selection of souvenirs to remember their Museum experience and intriguing books to foster continued learning. Remember, Museum Members receive a 15 percent discount at the Store.

So as we work for an even better Museum experience, we will be working hard to continue our great programs, tours and experiences for our community and beyond.

*Science Classes, Receptions,
Camp-ins, Family nights...*



...even tours will continue.



Like Us On



Moving Seas:
Taking Diorama
To Storage
For Renovation
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Learn How
Blubber Keeps
Animals Alive
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Explore the Past:
Take Home
A Piece of History
On June 26
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THE PETROLEUM MUSEUM

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



The unique marine diorama will be removed in sections and stored until its new home in the exhibit is completed.

Renovation plans for the Petroleum Museum are well underway and it promises to be an interesting journey. One of the first challenges is to save and re-install our exquisite marine diorama. Built in 1974-75 by **Terry Chase**, at that time an apprentice to famous diorama builder George Marchand, this beautiful depiction of the Permian Sea certainly is one of the jewels of the present Museum. Handcrafted reef walls, with intricate fish, sponges and other Permian age "critters" give visitors a feel for what the Permian Sea would have looked like millions of years ago.

The diorama will be carefully removed and stored during the renovation in preparation for its new home in the Capitan Reef exhibit. The new exhibit area will feature an immersive environment highlighted with the Museum's diorama. Kid-size reef tunnels, microscopic viewers and real fossils will all help capture the imagination of visitors while introducing them to the geology of the Permian Basin.

Chase and his team will remove the present exhibit in five foot sections, giving special attention to the delicate creatures created in wax – the material of choice at the time. The exhibit then will be stored in a controlled, cool environment to await its new home.

In the last 40 years, Terry Chase has built a world-wide reputation for Chase Studios, designing and producing thousands of exhibits and dioramas. Known for scientific accuracy and attention to detail, Chase Studios maintains a staff of artisans, craftsmen and scientists to make some of the most realistic and enduring exhibits in the world.

Retired and Bored? Give Us a Hand

Meet **Jim Sears**, a new volunteer at the Petroleum Museum. Jim is a retired counselor and athletic trainer for over 30 years, spending the last 13 years at Mc-Camey ISD. This Texas Tech graduate and avid baseball fan can be found at the Rock-Hounds games when he is not giving back to his community through organizations such as the Petroleum Museum, Meals on Wheels and the Wagner Noel Performing Arts Center. Jim has called Midland home for the last six years and is a member of First United Methodist Church. With years of educational experience under his belt, Jim naturally fell into volunteering with the Museum's Educational Department.



Jan Estal Maberry is another of the Museum's new volunteers. She has been helping out the Archives and Collections department every Tuesday afternoon with their library inventory. Jan is retired and has lived and worked in the Permian Basin for over 20 years. She has degrees in Chemistry (Knox College, Galesburg, IL) and Chemical Engineering (Washington University, St. Louis, MO) and has worked as a Process Engineer and Gas Buyer in the natural gas industry for various employers, including Phillips Petroleum, GPM, Duke Energy Field Services, BP, and Southern Union. Jan lives in Odessa with her husband Keith, and has two grown children, Dylan and Leigh. In her free time she enjoys traveling, entertaining, and camping.

For more information about becoming a Petroleum Museum volunteer, call (432) 683-4403 or visit www.petroleummuseum.org.

And once you sign up to volunteer, you are eligible to join the **Santa Rita Club**, the volunteer organization affiliated with the Museum. The Club hosts three social events a year. It's a great way to meet new people and enhance your knowledge of the Permian Basin while having fun.

Many thanks to **Jim Woodcock** who purchased our four penthouse tickets to the Indy 500 race! The tickets were donated to the Museum by the Robert B. Holt family. We appreciate the continued support of the Holt family in memory of **Bobby Holt**.

**AND HE'S OFF
 TO THE RACES!**

ASK DR. PETRO



Q: I see all the drilling rigs out there, but how do computers fit into the world of drilling for oil?

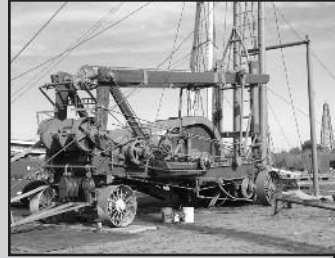
A: That's a great question in this computer age! Let's take a look at how computer technology has given engineers, geologists and operators across the board the ability to be more accurate in their interpretation of the data from geologic structures miles below the surface of the earth.

Production engineers bring oil and gas to the surface through miles of production piping and then more miles of pipeline to the refineries...all this with much more efficiency because of Computer Technology.

Advanced computer technologies like satellites, global positioning systems, remote sensing devices, and 3-D and 4-D seismic make it possible to discover oil reserves while drilling fewer wells, resulting in small environmental impact, or "footprint."

The answer to where oil is found today is in "COMPUTERS."

Museum Roundup



Updating the antique drilling equipment was a project of Bison Drilling Company, which donated the funds, paint, man-lift and employees. Thanks to Lynn Sadler, Rusty Smith and Caes Van Thoff. Meanwhile, Mustangs Across America stopped at the Museum, above right. Distinguished Lecturer Carston Peter, right, entertained with his adventures. Family Science Night, far right, and Earth Day brought hundreds to the Museum grounds.



AT HOME EXPERIMENT!

Blubber Gloves

MATERIALS:

- Zip lock bags
- Shortening
- Spoon
- Water
- Ice
- Bowl
- Tape

Procedure

1. Make an ice bath. Fill a bowl half full with cold water. Add a bunch of ice. This ice bath will be a great representation of the near-freezing waters of the Polar Regions.
2. Since you aren't a seal, walrus, or whale, you don't have blubber. You need to find a suitable blubber substitute. Fill a zip lock bag with three or four heaping spoonfuls of shortening.
3. Put your hand inside a second zip lock bag of the same size and push it into the shortening-filled zipper lock bag.



4. Spread the shortening around the gloves until the inner glove is mostly covered.
5. Stick your hand in the glove and dip your blubber-gloved hand into the icy water. Does your hand get cold in the water?
6. Try comparing a hand inside the Blubber Glove to a hand stuck in the water without the glove. What do you experience?

How does it work?

Shortening is a fat, just like blubber, and is great for thermoregulation. That means fat keeps heat in and cold out. Fats work well as insulators because of their high density and low thermal conductivity relative to water. Despite being submerged in incredibly cold water, fat can maintain a constant temperature. Blubber, in particular, requires very little blood supply, allowing more blood to be circulated to the skin surfaces that are more directly exposed to the frigid temperatures. Using the Blubber Glove, your hand isn't directly exposed to the water, so the fat takes the full brunt of the cold.

The Future is Here!

Join us as we commemorate almost 40 years of "Exploring the Past" and celebrate the opportunity to "Define our Future".

Explorations, Innovations and Legends will be the theme,

Come comfy in your jeans.

Bid on a piece of the past,
Take home memories that last.

We bid a fond farewell to the North and East wings,
Looking forward to what the future brings!



Plan to bid on the Silent Auction for Exhibit Materials that will not be repurposed for the renovation.

Thursday, June 26, 2014

5:30 - 7:30 p.m.

Light Fare and Libations

Silent Auction ends at 7:00



THE PETROLEUM MUSEUM
1500 Interstate 20 West
432-683-4403
petroleummuseum.org
RSVP by June 20th



We're **FREE**
For Military

The Petroleum Museum will be part of the Blue Star Museums collaboration this year. We are partnering with the National Endowment for the Arts, Blue Star Families, the Department of Defense, and more than 1,800 museums across America to offer free admission to all active duty military personnel and up to five family members from Memorial Day through Labor Day 2014. For more information, call the Museum at 683-4403, or for the list of participating museums go online to www.arts.gov/bluestarmuseums.

WELCOME To Our Newest Members

Welcome to our special newest members:

Contributing Members:

- Mr. & Mrs. Jingzhao Bai
- Matt Basso
- Bopco, L.P.
- Amie Casbeer
- Dr. Marcia Norton Chabak
- Selene Carbajal & Henry Fandley
- Mr. & Mrs. William Brad Fitch
- Trey B. Grafa

- Mr. & Mrs. Jason Kemp
- Laura Lewis
- Bryan Mealer
- Jonathan Brad Pearson
- Mark Rheude
- ProPetro Services
- Meredith Morton Tipton

Energy Circle Members:

- Express Employment Professionals

MEMORIALS

Memorial gifts to the 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 as of May 8, 2014, were:

**IN MEMORY OF
Frank Agar**

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Clarence Scharbauer

Mr. & Mrs. Roy C. Williamson, Jr.

APPLAUSE! APPLAUSE!

We want to give a round of applause to the following friends, companies and businesses. Their recent in-kind contributions of time, assistance or services are appreciated.

Earth Day:

- Permian Basin Master Gardeners, Master Naturalists, I-20 Wildlife Preserve, Chef Steve Kohl, Midland County Library, Sibley Nature Center, Keep Midland Beautiful, Keep Odessa Beautiful, Midland Tree Keepers, Annalise Scoggins.

"Creature Feature," Family Science Night

- Pet Connections, Abilene Zoo, Midland

- Police Department K-9 Unit, I-20 Wildlife Preserve, Wild About Texas, Lone Star Sanctuary, Shooting Star Farms.

Jessica McCrary

Maintenance:

- Big Dog Drilling Co.
- Lanny Gortney
- Mike Hall
- Dawson Geophysical
- ASCO
- B&W Chemical Toilets

Notable Dates

JUNE

- June 10:** Summer Movie Camp: “How to Train Your Dragon”
9:30 a.m. to 12 noon or 1:00 to 3:30 p.m.
\$5 per child, ages 5 and up.
- June 17:** Summer Movie Camp: “Planes”
9:30 a.m. to 12 noon or 1:00 to 3:30 p.m.
\$5 per child, ages 5 and up.
- June 20:** Summer Science Class: “Buggin’ Out”
9:00 a.m. to 12 noon
Must be entering third through sixth grade
Museum members: \$20; Non-members, \$25
Registration required. Call Mandi, 683-4403.
Sponsor: **Key Energy Services**
- June 24:** Summer Movie Camp: “Monsters University”
9:30 a.m. to 12 noon or 1:00 to 3:30 p.m.
\$5 per child, ages 5 and up.
- June 26:** Brown Bag Lunch & Lecture Series: “Switch”
11:30 a.m. to 1:45 p.m.
Free admission. Drinks & dessert provided.
Sponsor: **Hahl Proctor Charitable Trust**
“The Future is Here” Celebration
Free Admission; Silent Auction
5:30 to 7:30 p.m.
- June 27:** Summer Science Class:
“Deep Dive Into Science”
9:00 a.m. to 12 noon
Must be entering second through fourth grade
Museum members: \$20; Non-members, \$25
Registration required. Call Mandi, 683-4403.
Sponsor: **Key Energy Services**

JULY

- July 1:** Summer Movie Camp: “Turbo”
9:30 a.m. to 12 noon or 1:00 to 3:30 p.m.
\$5 per child, ages 5 and up.
- July 8:** Summer Movie Camp: “Epic”
9:30 a.m. to 12 noon or 1:00 to 3:30 p.m.
\$5 per child, ages 5 and up.
- July 11:** Summer Science Class:
“Powered by Energy”
9:00 a.m. to 12 noon
Must be entering fourth through sixth grade
Museum members: \$20; Non-members, \$25
Registration required. Call Mandi, 683-4403.
Sponsor: **Key Energy Services**

- July 15:** Summer Movie Camp: “The Croods”
9:30 a.m. to 12 noon or 1:00 to 3:30 p.m.
\$5 per child, ages 5 and up.
- July 18:** Summer Science Class:
“Master of Disaster”
9:00 a.m. to 12 noon
Must be entering second through fourth grade
Museum members: \$20; Non-members, \$25
Registration required. Call Mandi, 683-4403.
Sponsor: **Key Energy Services**
- July 22:** Summer Movie Camp: “The Jungle Book”
9:30 a.m. to 12 noon or 1:00 to 3:30 p.m.
\$5 per child, ages 5 and up.
- July 29:** Summer Movie Camp:
“Cloudy with a Chance of Meatballs 2”
9:30 a.m. to 12 noon or 1:00 to 3:30 p.m.
\$5 per child, ages 5 and up.
- Brown Bag Lunch & Lecture
Stephen Nelson: “Manor Park”
11:30 a.m. to 12:30 p.m.
Free admission. Drinks & dessert provided.
Sponsor: **Hahl Proctor Charitable Trust**

AUGUST

- Aug. 1:** Summer Science Class: “Science is Sweet”
9:00 a.m. to 12 noon
Must be entering third through sixth grade
Museum members: \$20; Non-members, \$25
Registration required. Call Mandi, 683-4403.
Sponsor: **Key Energy Services**
- Aug. 5:** Summer Movie Camp: “Frozen”
9:30 a.m. to 12 noon or 1:00 to 3:30 p.m.
\$5 per child, ages 5 and up.
- Aug. 8:** Summer Science Class:
“Out of This World”
9:00 a.m. to 12 noon
Must be entering third through sixth grade
Museum members: \$20; Non-members, \$25
Registration required. Call Mandi, 683-4403.
Sponsor: **Key Energy Services**
- Aug. 19:** Brown Bag Lunch & Lecture Series
Mark Bland: “Directional Drilling”
11:30 a.m. to 12:30 p.m.
Free admission. Drinks & dessert provided.
Sponsor: **Hahl Proctor Charitable Trust**

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

Museum Who's Who

KATHY SHANNON
Executive Director
LUANNETHORNTON
Development Director
MARISSA DIAZ
Archives/Collections Director
HAL COMBS
Programs/Events Director

MANDI THOMPSON
Education/Marketing Director
MARA BLAND
Education Assistant
LETTY RUBIO
Office Manager
CHANNON GREGG
Museum Store Manager

WINNIE KIDD
Museum Store Assistant
LISA WORDEN
Finance Manager
JAMES WHITE
Facilities Manager
AUDIE STEPHENS
Facilities Assistant

KEITH DOUCET
Chaparral Car Specialist
LANA CUNNINGHAM
Public Relations Consultant
STACI HANNA
Website/Communications
Consultant

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Newsletter Underwritten by:



WTG Fuels ~ **GASCARD**

Museum Bits & Bytes is published quarterly by the Petroleum Museum. For more information call 432-683-4403 or visit the website www.petroleummuseum.org.
6/14

OUR MISSION: We will share the petroleum and energy story and its impact on our lives.

JOIN!
And Get 15% Discount Now

Your membership dollars truly make a distinct difference in the Museum's quest to continue being a valuable educational resource and community partner. Membership entitles you and your guests to free admission, 15% discount in the Museum Store and discounts on facility rentals. Members also receive advance notice of Museum events and programs.

Join the excitement and be a part of the Petroleum Museum. All membership levels are renewed annually and are non-transferable.

Visit the Museum website at www.petroleummuseum.org or call Luanne at 432-683-4403 to join today!

THE MUSEUM STORE



Looking for a great Father's Day gift for the oilman (or wannabe oilman) in your life? Look no further than the Museum Store. From drill bit mugs and gemstone inlaid bolos to oilfield ties and Texas-shaped captured lighting sculptures, the Museum is stocked with unique gifts. Visit the Museum Store during these hours: 10 a.m. to 5 p.m. Monday through Saturday and 2 to 5 p.m. on Sunday.