

Newsletter

September, 2025

SIPES Houston Energy Entrepreneurs



Be excited for:

- ❖ **Events: Convention, and Impact of Oil to Houston**
- ❖ **News: Politics, Foreign, science, and business**
- ❖ **Secret Surprises So Make Sure to Stay Tuned!**

[Image Citation: SIPES Houston. \(n.d.\). Oil rigs \[Photograph\]. SIPES Houston. Retrieved from https://sipeshouston.org](https://sipeshouston.org)



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Letter From The Editor

- Zane Bey-

Greetings, my name is Zane Bey. I work as an intern for Tanner Bowersox, chairman of SIPES. Outside of summer time I study as a graduate student at Rice University in energy geoscience. Last year I graduated from Tulane University, where I researched mass wasting on Venus using synthetic aperture radar and GIS data in the department of Earth and Environmental Science. My first internship was at the Bureau of Land Management in the Carlsbad, New Mexico Field Office. Although I was born here in Houston, I spent many years living overseas as a member of an oil and gas family. This included Malaysia, UAE, Qatar. Despite the people constantly changing, I learned to appreciate the geological communities' importance on connection. Especially when it extends across country borders. Which is why, when asked, I immediately jumped at this opportunity.

My goal with restarting this newsletter is to help keep you all informed with news from every sector. Both about the happenings in SIPES and the world of earth science around us. To achieve this I have divided the newsletter into four separate categories: political news, global news, science news, and business news. Many intelligent and creative thinkers populate this community. Through this newsletter SIPES will be able to better connect one another.

I deeply appreciate this opportunity and look forward to meeting you all. Thank you to Tanner Bowersox for guiding me. May your rigs keep gushing with oil.

- Zane Bey, writer of SIPES newsletter



SIPES HOUSTON
ENERGY ENTREPRENEURS

SIPES Houston Chapter

The Society of Independent Professional Earth Scientists (SIPES) is the only national organization designed exclusively for the independent or consulting professional prospector. Members include geologists, engineers, geophysicists, CEOs, and investors.

The Houston Chapter of SIPES is the largest local chapter of the SIPES National organization, which is based in Dallas. Part of the richness of SIPES is the networking and communication that propagates between the chapters in these oil communities.

When you see the SIPES Certificate of Membership, you can always be sure that you are dealing with honest and reputable geoscience professionals. Please visit our national website for more details.

Interested in joining us? Learn more about membership and the Houston chapter, or register for upcoming luncheons and events, where speakers discuss petroleum geology, engineering, and other oil and gas business topics



How To Find Us:

- ❖ Located: 3242 Summerland Drive. Manvel, TX 77578
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AD BREAK

Our digital age moves faster than ever. Trends, fashions and fads are impossible to keep up with. We are here to help you look slick no matter the times in our fantastic hats!



We are proud of what we do here and want to help you feel the same. Whether you're an oil man or woman, we have the perfect way to show off your work.

Hat: \$50

Link: [Shop - SIPES Houston](#)

STICKERS STICKERS STICKERS!!!

Come check out our amazing bumper stickers! No better time to represent your oil than when you're using it.



Sticker: \$10

Link: [Powered By Organic Oil Car Magnet - 1 - SIPES Houston](#)



Upcoming Events:

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Beyond Physics in Geophysics

Physics is the backbone of geophysics, yet the universality of physical laws contrasts with the highly local nature of geology. While physics requires universal validity, geophysics gains credibility by incorporating site-specific geological relationships, which can make a method effective in one area even if it doesn't apply everywhere. Over the past twenty-five years, explorationists have leveraged seismic multi-attribute regression, neural networks, and more recently deeper machine learning approaches to make predictions that physics alone could not achieve. These data-driven tools hold great promise but also carry the risk of misuse when applied without sufficient geological context or with limited training data. The most powerful results come when machine learning is used to uncover hidden relationships that can then be understood geologically and applied geophysically. In this way, science-guided machine learning—demonstrated in Mexico, China, and the Permian Basin—enhances our ability to predict rock and fluid properties from seismic data by going beyond physics and truly putting the “geo” back into geophysics.

Dr. John Castagna holds the Sheriff Chair in Geophysics at the University of Houston. He has 45 years of experience in oil and gas exploration and development specializing in the quantitative interpretation of seismic data.

Date & Location:

Thursday, September 18th
Petroleum Club

Time:

Wine Served 11:00am
Lunch Served 11:30am

Purchase Ticket:**Speaker:**

Dr. John Castagna
University of Houston



Updates From the Capital:

What's new from Capitol hill? Here's the latest on funding and regulations so you know where to put your sandbags and your money bags.

Trump Wants to Unify Restrictions on Russia and China

President Donald Trump has warned NATO allies that he will only impose new U.S. sanctions on Russia if all member nations first halt their remaining imports of Russian oil and gas, including liquefied natural gas. While Europe has sharply reduced reliance on Russian energy since the 2022 invasion of Ukraine, countries such as Hungary, Slovakia, France, Belgium, and Spain still import significant volumes often under long term contracts. Trump criticized these purchases as undermining sanctions, suggested LNG imports should also stop, and called for steep tariffs on China until the war ends. His stance comes despite the U.S. continuing to import certain Russian commodities like enriched uranium and palladium.

Want to read more? Click here: [Link](#)

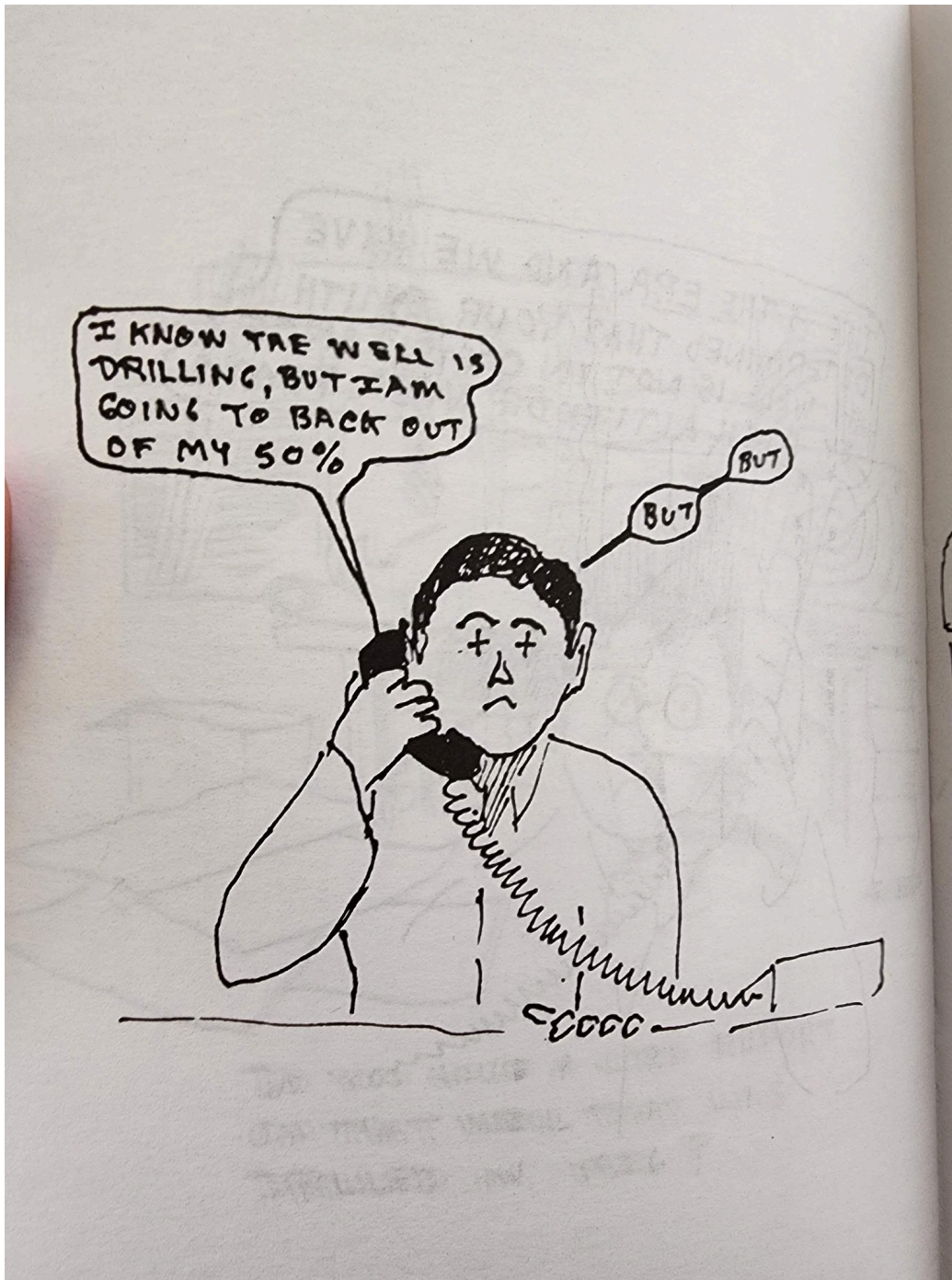
California Loves Oil Now!?

California has passed Senate Bill 237, a measure aimed at boosting in-state oil production to counter refinery shutdowns, rising fuel imports, and concerns over gasoline prices. Starting January 2026, Kern County can issue up to 2,000 new drilling permits annually, with the goal of supplying about 25% of the crude used by California refineries. The move comes as two major refineries prepare to close, cutting roughly 17% of the state's gasoline output. Supporters frame the bill as a supply stabilizing step, while critics warn it could weaken environmental protections and may not significantly lower prices due to refinery capacity limits, regulatory hurdles, and California's unique fuel requirements.

Want to read more? Click here: [Link](#)



Joke Break!



From Jim Bob Jackson's Oilman's Joke Book
Thanks to Bill Smith for the reference



Updates From Across the Borders and Oceans:

In an age of globalization one must pick up newspapers from every country. We are here to help. We have brought you important updates from around the globe.

Ukraine Strikes Again

Intensified Ukrainian drone strikes on Russian energy infrastructure have damaged multiple refineries, export terminals, and port facilities, potentially forcing Russia to cut oil production. State pipeline operator Transneft, which handles over 80% of Russia's crude, has warned producers it may need to accept lower volumes and has already limited storage options. At least 10 refineries have been targeted, including Rosneft's 260,000 bpd Ryazan plant, while attacks on the Ust-Luga fuel complex and the key Primorsk export port have disrupted operations, with some repairs expected to take months. The Primorsk strike marked Ukraine's first attack on the port since the war began, damaging tankers and onshore pumping equipment.

Want to read more? Click here: [Link](#)

World Oil Market Report

The IEA's September 2025 Oil Market Report projects global oil demand to grow by about 740,000 b/d in 2025, with stronger-than-expected consumption in advanced economies offset by weaker emerging market demand, leaving overall OECD use flat by year end. Supply is surging as OPEC+ unwinds cuts and non-OPEC+ producers like the U.S., Brazil, and Canada hit record output, pushing global production toward 107.9 mb/d in 2026. Refinery runs reached an all-time high in August but will dip with seasonal maintenance, while inventories have risen for six straight months, aided by large Chinese stockpiling. Brent crude prices hover near \$67/bbl amid bearish sentiment, as looming oversupply outweighs geopolitical risks and new sanctions on Russia and Iran, which so far have had only modest effects on trade flows.

Want to read more? Click here: [Link](#)



What's Brewing in the Beakers:

Of course we also bring you news straight from the labs so you can stay up to date on *oil* the facts.

Live-oil vs. Dead-oil

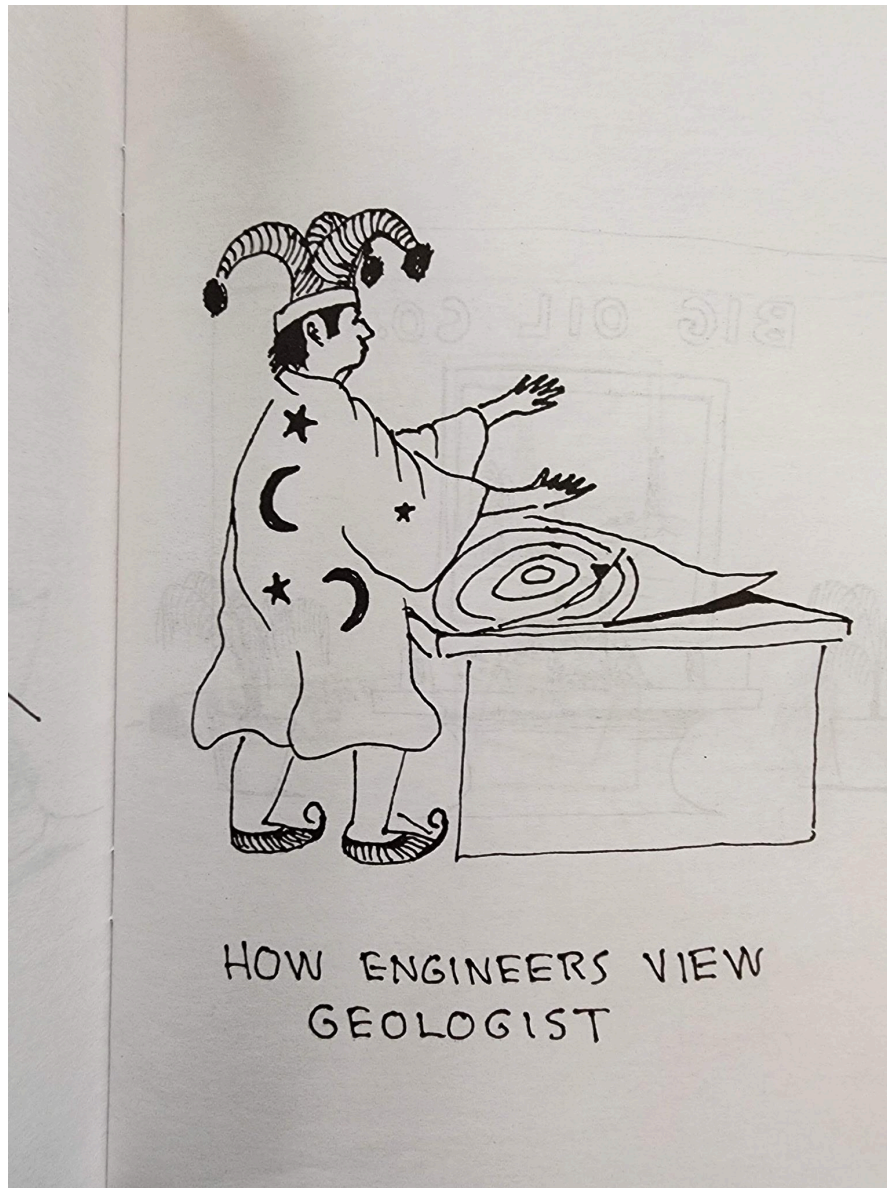
study compares CO₂ huff-n-puff (HnP) enhanced oil recovery in shale cores saturated with live-oil versus dead-oil, showing that live-oil yields significantly higher recovery due to its greater compressibility and lower viscosity, which allow injected gas to penetrate via both convection and diffusion. Researchers generated live-oil in situ by diffusing methane into dead-oil-saturated cores, then conducted primary depletion and one CO₂ HnP cycle. Live-oil tests recovered 8% of the original oil in place (OOIP) during primary production and an additional 32% from HnP, compared to 5% and 19% respectively for dead-oil. A new analytical model was also developed to estimate methane diffusion coefficients in oil-saturated porous media, offering a more realistic evaluation of CO₂ HnP performance under reservoir-like conditions

Want to read more? Click here: [Link](#)

Adaptive Denoising for Oil and Gas Pipeline Detection Signals

This study introduces an Adaptive Fuzzy Diffusion Denoising Method (AFDM) to improve the accuracy of oil and gas pipeline defect detection by tackling the challenge of complex, random noise in field signals. Unlike traditional fixed-step diffusion or conventional filtering, AFDM integrates a multi-modal predictive model (DCKAN) with a fuzzy diffusion criterion that dynamically adjusts both the diffusion scale and step size in real time based on the noise state during the Markov process. Tested on simulated and real pipeline data, the method achieved significant gains—boosting signal-to-noise ratio by over 10 dB in field cases and outperforming advanced denoising techniques in SNR, mean absolute error, structural similarity, and correlation. The results show AFDM's enhanced adaptability and stability, preserving critical defect features and offering a more robust solution for pipeline safety monitoring.

Want to read more? Click here: [Link](#)



From Jim Bob Jackson's Oilmans Joke Book
Thanks to Bill Smith for the reference

Portfolios, Prices, Patents, and Performances

From one business person to another I worked hard to bring you news from the field in hopes it will help your company grow.



Oil Prices Reported Struggling Again!

Oil prices fell as concerns over weakening U.S. demand and a looming global oversupply outweighed geopolitical risks from conflicts in the Middle East and Ukraine. Brent crude closed down 1.66% at \$66.37 a barrel and WTI dropped 2.04% to \$62.37 after the IEA projected a “massive” surplus next year due to rising OPEC+ output, even as the group confirmed plans to increase production from October. U.S. crude inventories unexpectedly rose by 3.9 million barrels, Saudi exports to China are set to jump in October, and analysts warned that swelling stocks and questions over China’s ability to absorb excess supply could keep prices under pressure despite ongoing sanctions discussions targeting Russian oil

Want to read more? Click here: [Link](#)

Monthly Updates:

Bakers Hughes Rig Count (as of September 12th):

In the United States: 539 (Land: 524, Offshore: 13, Inland waters: 2).

Texas: 244 rigs.

WTI Oil (on the left) and Natural Gas Nymex (on the right) Prices Weekly Report (8/13/2025-8/19/2025):

