

# GENERAL MEETING

## Utah FORGE – Seeing is Believing with Advanced Tracer Interpretation

### Location

- Fogo de Chão - Downtown Denver
  - 1513 Wynkoop Street, Denver, CO 80202

### Date

- Wednesday, November 20th, 2024
  - 11:30 AM – 1:00 PM

### Speaker

- Chris Fredd- Stimulation Mapping Technical Director, Resman Energy Technology

### Session Overview

The Utah FORGE project relies on multistage hydraulic fracturing to create flow connections between injection and production wells for renewable Enhanced Geothermal Systems (EGS) applications. Sponsored by the Department of Energy, this test laboratory has been used to evaluate the impact of completion and stimulation design changes, including the number of clusters per stage, fracturing fluid type, and fracturing methodology. Understanding and characterizing the impact of these design changes on the fracture connections is key to optimizing enthalpy output from the system.

Sponsor: **RESMAN**<sup>®</sup>  
ENERGY TECHNOLOGY

**EARLY BIRD REGISTRATION  
CLOSES NOVEMBER 18TH AT 12:00 PM  
EVENT IS EXPECTED TO SELL OUT  
REGISTER NOW**

### Meet our Speaker



**CHRIS FREDD** SERVES AS THE STIMULATION MAPPING TECHNICAL DIRECTOR FOR RESMAN ENERGY TECHNOLOGY. HE HAS MORE THAN 25 YEARS OF EXPERIENCE IN THE ENERGY SECTOR AND IS A SUBJECT MATTER EXPERT IN STIMULATION, COMPLETIONS, AND TECHNOLOGY INTEGRATION. CHRIS HAS A UNIQUE TECHNO-COMMERCIAL BACKGROUND AND A PROVEN TRACK RECORD OF DELIVERING LEADING TECHNOLOGIES AND PRACTICAL SOLUTIONS. HE PREVIOUSLY HELD A VARIETY OF SENIOR TECHNOLOGY LEADERSHIP POSITIONS WITH SLB INCLUDING TECHNOLOGY CENTER DIRECTOR AND GLOBAL BUSINESS DEVELOPMENT MANAGER. CHRIS EARNED A PH.D. DEGREE IN CHEMICAL ENGINEERING FROM THE UNIVERSITY OF MICHIGAN AND HOLDS MORE THAN 30 GRANTED PATENTS AND 40 PUBLICATIONS.

# YOUNG PROFESSIONALS LUNCH AND LEARN



## SPE Young Professionals Lunch & Learn

### USING XSPOC FOR INTELLIGENT SETPOINT OPTIMIZATION OF ROD LIFT WELLS

NOV 7 | 11:30 AM – 1:00 PM | LIBERTY ENERGY  
950 17TH STREET SUITE 2400, DENVER CO, 80202

**IAN NICKELL**

SENIOR MANAGER, CUSTOMER SUCCESS



LUNCH SPONSOR:

**CHAMPIONX**

VENUE SPONSOR:

**LIBERTY**

### Abstract

AUTOMATION HAS BEEN USED FOR MANY YEARS NOW AS A MEANS FOR OIL AND GAS OPERATORS TO OPTIMIZE SUCKER ROD PUMP WELLS. TRADITIONAL AUTOMATION FOR ROD PUMP WELLS INVOLVED OPERATING THE WELL AT A FIXED SPEED AND IDLING THE WELL BASED ON A PREPROGRAMMED TIME (TIME CLOCKS) OR FILLAGE (PUMP OFF CONTROL). HOWEVER, UTILIZING A VARIABLE FREQUENCY DRIVE (VFD) IS A MORE SOPHISTICATED METHOD TO ALLOW OPERATORS TO INCREASE THEIR RUNTIME BY DETECTING WHEN THERE IS LESS FLUID TO PRODUCE AND SLOWING THE UNIT DOWN, ACCORDINGLY. ALTHOUGH UTILIZING A VFD CAN PROVIDE SIGNIFICANT IMPROVEMENTS IN PRODUCTION AND FAILURE REDUCTION, IN SOME CASES OPERATORS ARE NOT ABLE TO REALIZE THE FULL ADVANTAGE OF THEIR ROD PUMP WELLS WITH VFDS BECAUSE THE VFD SETPOINTS ARE NOT OPTIMIZED. OPTIMIZING VFD SETPOINTS IS NOT NECESSARILY CHALLENGING, BUT IN MANY CASES REQUIRES MANY ITERATIONS OF USER INTERVENTION WHICH TAKES TIME, AND WITH THE EVER-CHANGING NATURE OF SOME RESERVOIRS, THAT JOB MAY NEVER BE COMPLETE FOR A GIVEN WELL. HOWEVER, UTILIZING A HOST SOFTWARE WITH ALGORITHMS DEVELOPED BY INDUSTRY EXPERTS, VFD SETPOINT OPTIMIZATION CAN BE DONE AUTONOMOUSLY. USING DOMAIN-SPECIFIC ALGORITHMS, THE HOST SOFTWARE CAN DETECT DEFICIENCIES IN VFD OPERATIONS AND ITERATE THROUGH SETPOINT CHANGES TO DETERMINE THE OPTIMAL SETPOINTS. UTILIZING HOST SOFTWARE, THE ALGORITHMS CAN CONSTANTLY CHECK TO MAKE SURE THAT THE SETPOINTS ARE KEEPING THE WELL RUNNING OPTIMALLY, EVEN WHEN RESERVOIR CONDITIONS CHANGE. BY IDENTIFYING ISSUES LIKE EXCESSIVE CYCLING, LOST PRODUCTION, UNNECESSARY SPEED CHANGES, AND POOR PUMP FILLAGE, THE ALGORITHMS IMPLEMENT CHANGES THAT IMPROVE THE PERFORMANCE OF THE WELL AND HELP OPERATORS LEVERAGE THE FULL CAPABILITIES OF THEIR VFD.

REGISTRATION AVAILABLE UNTIL DAY OF EVENT

EVENT IS FREE!

**REGISTER NOW**

### Meet our Speaker

**Ian Nickell** has an undergraduate degree in petroleum engineering and a master's degree in mechanical engineering. He joined the Theta/ChampionX team (formerly Dover and then Apergy before ChampionX) back in 2016 as an artificial lift engineer. He also was the support team manager and product line manager before starting a new role as the customer success manager success team.



SPE YP PRESENTS:

# FALL HAPPY HOUR

NOV 7TH | 5-7PM

WEST SALOON & KITCHEN - 501 16TH STREET MALL

FREE REGISTRATION

SPONSORED BY:

**CHAMPIONX**

# YOUNG PROFESSIONALS LUNCH AND LEARN



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Denver Section

# TECHNICAL HAPPY HOUR

Completions

## DATA ALL DAY EVERY DAY: WHAT WE LEARNED FROM REAL TIME AB TESTING DIAGNOSTICS

NOV 12TH | 4:00 – 6:00 PM | OVINTIV 40TH FLOOR  
370 17TH STREET, DENVER, CO 80202

**JASON WATFORD & ZACH SHULCOK**

FOUNDER AND MANAGING PARTNER PATINA ENERGY / DIRECTOR OF SALES PATINA ENERGY

SPONSORED BY:



### Abstract

PATINA ENERGY IS A LEADING PROVIDER OF REAL TIME DIAGNOSTICS IN THE OIL AND GAS INDUSTRY WITH A COUPLE OF THOUSAND SAMPLES ANALYZED THIS YEAR ON A/B TESTING.

WE WILL ANSWER THE FOLLOWING:

WHAT IS A/B TESTING?

HOW DOES PATINA DO A/B TESTING?

AND WHY DOES REAL TIME AND THOUSANDS OF SAMPLES MATTER?

WE WILL WALK THROUGH SEVERAL EXAMPLES TO SHOW WHAT SEVERAL OF OUR CUSTOMERS HAVE LEARNED.

**No Registration Needed!**

### Meet our Speakers

**Jason Watford** is the Founder and Managing Partner of Patina Energy which specializes in Real Time Diagnostics. Jason is a graduate of the University of Texas in Austin with a degree in Mechanical Engineering. He has worked in the oil and gas industry since graduation 18 years ago, starting in the field with Schlumberger and then moving through multiple positions with C&J Energy Services and Core Laboratories. He has handled many roles including operations management, business development and technical advisor.

**Zach Shulock** is the Director of Sales at Patina Energy. Zach is a graduate of Penn State University with a degree in Petroleum and Natural Gas Engineering. He started his career after graduation in 2016 as a frac field engineer with Schlumberger in the Rockies, before moving to Midland and into sales with Core Laboratories. He became a part of the Patina Energy team in 2022.



Denver Section

# GENERAL MEETING

## ROCKIES RESOURCE RUMBLE: USING MACHINE LEARNING TO DETERMINE IF THE DJ CAN COMPETE WITH THE VENERABLE WILLISTON OR UPSTART PRB

DECEMBER 11TH | 11:30 AM – 1:00 PM | FOGO DE CHAO DENVER DOWNTOWN  
1513 WYNKOOP STREET, DENVER CO, 80202

**BRANDON MYERS**

HEAD OF RESEARCH, NOVI LABS

SPONSORED BY:



## INDUSTRY EVENT- ZOO LIGHTS!



**JOIN US AT THE DENVER ZOO!**

**THURSDAY, NOVEMBER 21ST 5:30 PM - 9:30 PM**

**WE HAVE RENTED OUT THE ENTIRE DENVER ZOO. BRING YOUR FAMILY AND FRIENDS TO JOIN US AND HAVE A CHANCE TO EXPERIENCE THE 33RD ANNUAL ZOO LIGHTS. THE EVENING WILL FEATURE AN EXCLUSIVE OPPORTUNITY TO SEE THE ZOO LIGHTS BEFORE THE GENERAL PUBLIC. IT'S A FAMILY-FRIENDLY EVENT WHERE CHILDREN OF ALL AGES ARE ENCOURAGED TO COME ENJOY AN AMAZING NIGHT.**

**COME ENJOY THE LIGHTS, CAROUSEL, TRAIN RIDES, AND AN EVENING AMONGST FAMILY AND FRIENDS AT A VERY UNIQUE EVENT!**

# COMMUNITY OUTREACH - SPE CARES

## SPE Serves Breakfast at the Denver Rescue Mission



### Location

- Lawrence Street Community Center
  - 2222 Lawrence Street, Denver, CO 80205

### Date

- Tuesday, November 19th, 2024
  - 6:45 AM – 8:30 AM

### Description

Please join SPE Denver in their support of the Denver Rescue Mission, a nonprofit organization helping the poor and homeless populations of the Denver area at the Denver Rescue Mission. More than 85% of the services of the Denver Rescue Mission are operated by volunteers, serving people experiencing homelessness and poverty in our community since 1892. Please come and bring friends or family.

- Please get in touch with community outreach team member [Nico Cosca](#) for more details!

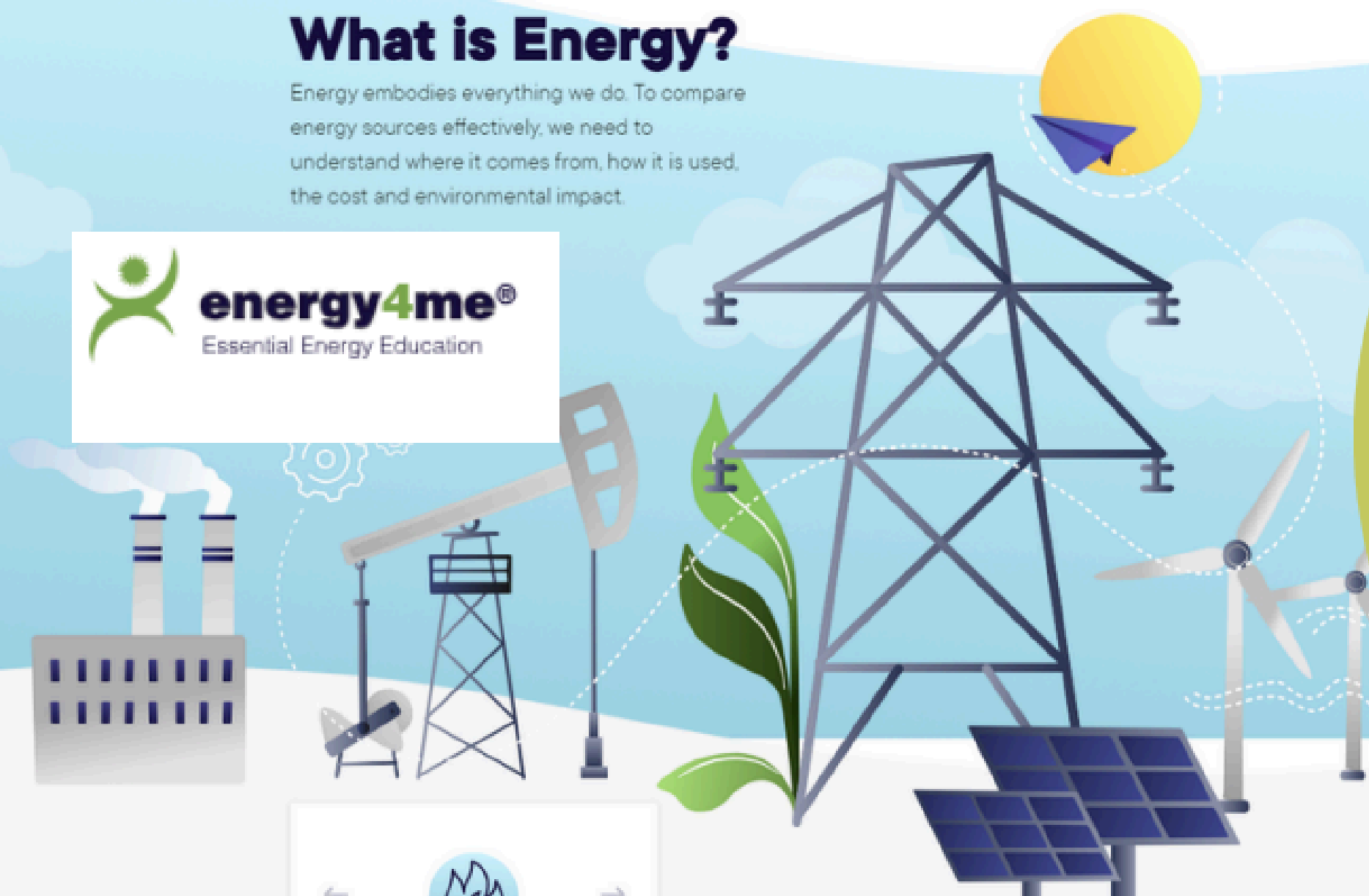
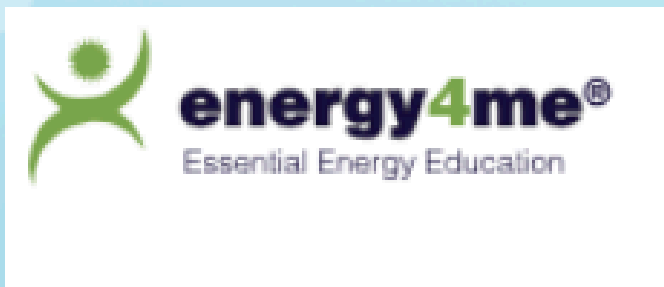
WATCH THIS SPACE FOR ADDITIONAL UPCOMING VOLUNTEER OPPORTUNITIES IN THE DENVER AREA.



# COMMUNITY OUTREACH - DPS MENTORSHIP

## What is Energy?

Energy embodies everything we do. To compare energy sources effectively, we need to understand where it comes from, how it is used, the cost and environmental impact.



Volunteers needed to help teach youth about our industry!

For more information please reach out to [tannehilljulie@gmail.com](mailto:tannehilljulie@gmail.com)



## 8TH GRADE CAREER FAIR

Let's talk about Oil and Gas: uses, industry, technologies, environment, educations, training and jobs.

**November 20 & 21, 2024**  
**8am to 3:45pm**  
**Empower Field**

For more information please reach out to

[LILLI.PETERS@DARKVISIONTECH.COM](mailto:LILLI.PETERS@DARKVISIONTECH.COM)

WATCH THIS SPACE FOR ADDITIONAL UPCOMING VOLUNTEER OPPORTUNITIES IN THE DENVER AREA.



# VIRTUAL TRAINING



**energy4me**<sup>®</sup>  
Essential Energy Education



Join us

November 5th

11-1pm Central

Online

Energy4Me

Training



Denver Section

Solutions.  
People.  
Energy.<sup>SM</sup>

# Events in the Community



**5th annual  
Zoo Lights  
Preview Night**

*Sponsored by:*



**EXERO**

Thurs, Nov 21st, 2024  
5:30PM - 9:30 PM  
Denver Zoo

*Thank you to our industry partners:*



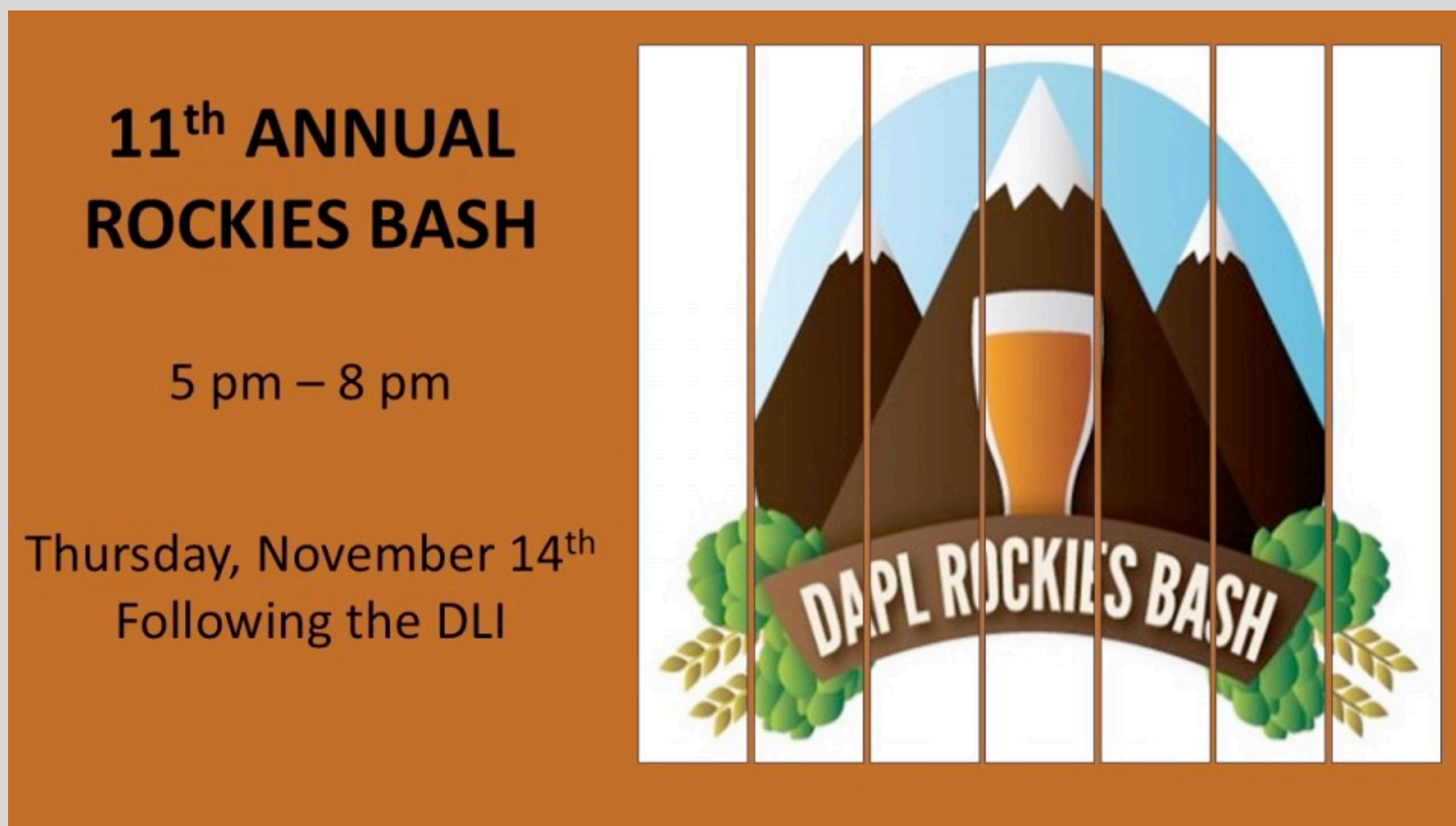

**Petroleum Engineering Department**

# Hall of Fame

**COLORADO SCHOOL OF MINES**

**FRIDAY, NOVEMBER 8, 2024 5:30 PM TO 8:00 PM**  
 COLORADO SCHOOL OF MINES  
 BEN H. PARKER STUDENT CENTER BALLROOMS A-C  
 1200 16TH STREET  
 GOLDEN, CO 80401


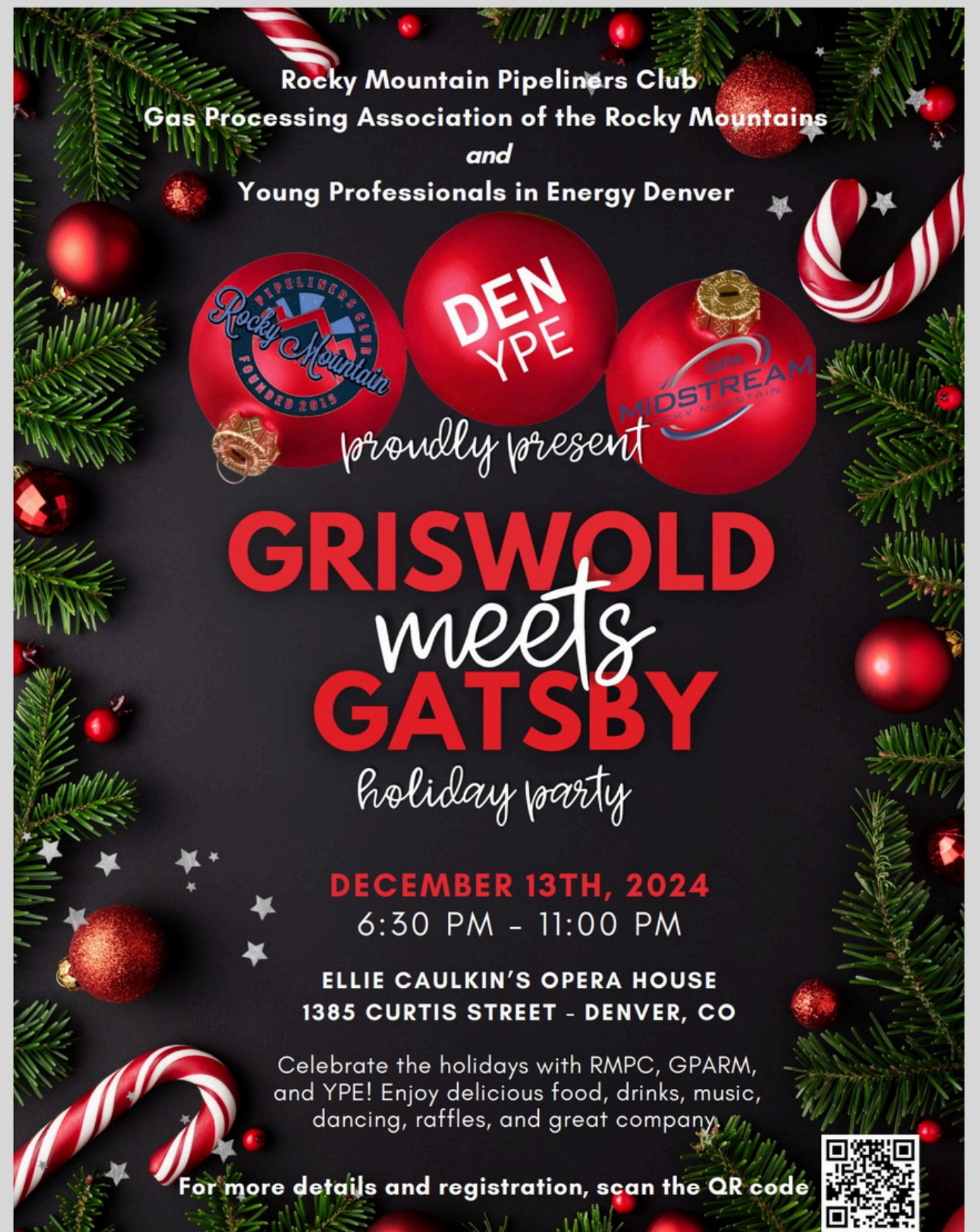
**PLEASE JOIN US IN WELCOMING NINE NEW INDUCTEES!**


**11<sup>th</sup> ANNUAL  
ROCKIES BASH**

5 pm – 8 pm

Thursday, November 14<sup>th</sup>  
Following the DLI

Rocky Mountain Pipeliners Club  
 Gas Processing Association of the Rocky Mountains  
 and  
 Young Professionals in Energy Denver



*proudly present*

# GRISWOLD meets GATSBY


*holiday party*

**DECEMBER 13TH, 2024**  
 6:30 PM - 11:00 PM

**ELLIE CAULKIN'S OPERA HOUSE**  
 1385 CURTIS STREET - DENVER, CO

Celebrate the holidays with RMPC, GPARM, and YPE! Enjoy delicious food, drinks, music, dancing, raffles, and great company.

For more details and registration, scan the QR code



# SPECIAL ANNOUNCEMENTS - SPONSORSHIP OPPORTUNITIES

Sponsorship opportunities available!

	PLATINUM \$5,000	GOLD \$750	SILVER \$500
<b>General Meetings (GM) held Monthly</b>			
8 available GMs within the year cycle	•	•	•
<b>GM Sponsorship Opportunities*</b>			
Exclusive sponsor of the entire yearly program	•		
Exclusive sponsor for single general meeting		•	
Sponsor of a single general meeting (non-exclusive)			•
<b>Benefits</b>			
Company's short adds added to SPE Denver Monthly Newsletter	•		
Acknowledgement on Website (Sponsorship Banner)	•		
2 Attendee Passes Per Session	•		
Option to provide advertisement material at the registration table	•	•	
Company logo on name tags	•	•	
1 Attendee Pass to the GM Being Sponsored		•	•
Facebook / Twitter / LinkedIn Event Posts	•	•	•
Acknowledgement on Website (Event Advertisement)	•	•	•

*\*All contributions made to our programs are considered charitable contributions for IRS purposes*

Please contact [Denver.SPE@gmail.com](mailto:Denver.SPE@gmail.com) for more information



Denver Section

# MEMBERSHIP RENEWAL

## RENEW YOUR MEMBERSHIP

*Membership renewal for 2024 will begin starting in September.*

### ADVANTAGES OF MEMBERSHIP:

- ✓ Access to JPT and OnePetro
- ✓ Stay up to date with industry events
- ✓ Enjoyed discounted workshops and publications



**RENEW HERE!**



### MORE INFORMATION

[www.spe.org/en/join/renew/](http://www.spe.org/en/join/renew/)

