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December 2, 2020

GENERAL MEETING

RTA and PTA in Unconventional Reservoirs and the Past, Present, and Future of SPE and Petroleum Engineering

Thomas A. Blasingame. Professor of Petroleum Engineering, Texas A&M University.

 Zoom Meeting: Click "Register Now" to receive the Zoom link.
 Wednesday, December 16th, 2020, 11:50 PM – 1:00 PM

[Register Now](#)

Abstract:

This presentation will cover a variety of content including, but not limited to, rate transient analysis and pressure transient analysis in unconventional reservoirs and recent research and SPE papers from Dr. Blasingame's team and Texas A&M to Dr. Blasingame's views and remarks on the past, present, and future of the Society of Petroleum Engineers and petroleum engineering as a petroleum engineering professor, long time industry contributor, and 2021 SPE International president.

Biography:



Dr. Tom Blasingame is a Professor in the Department of Petroleum Engineering at Texas A&M University in College Station, Texas. He holds B.S., M.S., and Ph.D. degrees from Texas A&M University — all in Petroleum Engineering. In teaching and research activities, Blasingame focuses on petrophysics, reservoir engineering,

diagnostics/analysis/interpretation of well performance, unconventional resources, and technical mathematics.

Blasingame's research efforts deal with topics in applied reservoir engineering, reservoir modeling, and production engineering.

Blasingame has made numerous contributions to the petroleum literature in well test analysis, analysis of production data, reservoir management, evaluation of low/ultra-low permeability reservoirs, and general reservoir engineering (e.g., hydrocarbon phase



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behavior, natural gas engineering, inflow performance relations, material balance methods, and field studies).

To date (October 2020), Blasingame has graduated 72 M.S. (thesis), 35 M.Eng. (report, non-thesis), and 16 Ph.D. students, and he has prepared approximately 170 technical articles, as well as having performed several major field studies involving geology, petrophysics, and engineering tasks.

Blasingame is a member of the Society of Petroleum Engineers (SPE), the Society for Exploration Geophysicists (SEG), and the American Association of Petroleum Geologists (AAPG).

Blasingame's SPE service includes the following highlights:

- (2000) Distinguished Member of the Society of Petroleum Engineers
- (2005) SPE Distinguished Service Award (2005)
- (2005-2006) SPE Distinguished Lecturer
- (2006) SPE Uren Award (for technology contributions before age 45) (2006)
- (2012) SPE Lucas Medal (SPE's preeminent technical award)
- (2013) SPE DeGolyer Distinguished Service Medal
- (2014) SPE Distinguished Achievement Award for Petroleum Engineering Faculty
- (2015) SPE Honorary Membership
- (2015-2018) SPE Technical Director for Reservoir
- (2020-2021) 2021 SPE President


Additionally, Blasingame has chaired numerous technical committees and technical conferences, symposia, and workshops. As a significant personal pride source, Blasingame has also been recognized with several teaching and service awards from Texas A&M University. Lastly, Blasingame is also active in community projects (such as the Wai-a-Ariki Food Forest) and his local church (St. Stephens Anglican church) in his adopted homeland of Onerahi, New Zealand, where his wife and children permanently reside.

YOUNG PROFESSIONAL GROUP

THE FIRST COMPLETIONS MASTER CONTROL SYSTEM, AND FUTURE OF AUTONOMOUS FRAC

Brett Chell, President & CEO – Cold Bore Technology.

 Zoom Meeting: Click “Register Now” to receive the Zoom link.

 Wednesday, December 9th, 2020, 11:30 PM – 1:00 PM

[Register Now](#)

Abstract:

Completions master control system (CMCS) for services on a completions site. The CMCS connects all service providers to allow autonomous operations while collecting all operational data from all service providers in one database and on a single timestamp. Completion sites have 4-6 different service providers collaborating to fracture oil and gas wells hydraulically. Each offers its control system and data capture capabilities, but none are integrated to create the efficiencies that come from autonomous fracturing. SmartPad connects these service providers (fracturing, wireline, wellhead, water storage, water transfer, and sand storage) on one platform. This allows supervisors to optimize in real-time by seeing IoT sensor data in one place. By the end of 2020, instance-based

logic will have been used to detect the end of the stage, signal the wellhead provider to close the current wellhead, and then open the next wellhead. This removes the need for human intervention in the well-swap process.

Biography:

Brett Chell is the president, CEO, co-founder of Cold Bore Technology and an experienced and prolific oil and gas expert. Chell started his career working on drill rigs; his in-the-field background has informed his practical approach as he's built disruptive technologies, processes, hardware, and software to reduce workload, infrastructure, and cost for drilling and completions. As the CEO of Cold Bore Technology, Chell is revolutionizing the oil and gas industry with SmartPAD, the world's first Completions Master Control System (CMSC) that brings completions operations into the digital world and helps operators move to fully automated systems that culminate in autotransacting Smart contracts. Cold Bore Technology was awarded first place in the Venture Stream Competition hosted by the Haskayne School of Business Hunter Centre for Entrepreneurship and Innovation and the University of Calgary in February 2017. In October 2018, the Rice Investment Group invested in Cold Bore Technology.


Chell has spent a decade of building startups. He is also the co-founder of Energy Block Services, which provides custom performance-based Smart contracts to oil and gas companies. Additionally, Chell spearheaded the creation of an oil and gas technology-focused partner company, Axial Energy Technologies. His startup step financing proficiency fuels his startup career; Chell has been involved in combined private equity, non-institutional, and institutional capital to fund technology ventures that have raised more than \$75 million for various energy and aerospace projects in the last five years.

COMPLETION STUDY GROUP

Patents and the Energy Industry

Peter Brewer, Patent Attorney – OilfieldPatents.com

 Zoom Meeting: Click "Register Now" to receive the Zoom link.

 Tuesday, December 15th, 2020, 11:50 PM – 1:00 PM

[Register Now](#)

Abstract:

Innovation is the backbone of the oil and gas industry. The industry can now drill wells deeper and faster than ever before and can fracture formations using over a mile of plug stages. The industry has developed directional drilling assemblies, controllers for artificial lift, and a host of inventions that make the completion of wells and the production of hydrocarbons efficient. Oil companies and service companies file patent applications for their inventions. This presentation will discuss the patent process with a particular emphasis on issues encountered by the petroleum engineer.

Biography:



Peter Brewer is a patent attorney. He is a native of Midland, Texas, and holds a degree in petroleum engineering from Texas A&M University. Following engineering school, Peter worked for Gulf Oil E&P Company in West Texas. Peter has written numerous patent applications in the oil and gas industry, including applications for Weatherford, ExxonMobil, and a host of small R&D and service companies. Peter works for an intellectual property boutique called Thrive IP. He is the owner of the website www.oilfieldpatents.com.

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SPE — DENVER CHAPTER NETWORKS!

Holiday Cocktail Party

JOIN US TO CELEBRATE THE HOLIDAY SEASON WITH
COCKTAIL MIXING AND NETWORKING
ALL FROM THE COMFORT OF YOUR HOME!

DECEMBER 16 | 5:00 PM
VIRTUAL COCKTAIL MIXING CLASS
REGISTRATION ENDS DECEMBER 9

PRESENTED BY
ROOM FOR MILLY COCKTAIL BAR

SPONSORED BY






SPE Denver's holiday party will be a virtual cocktail mixing class presented by Room for Milly. On December 16th at 5 pm, join us to celebrate the holiday season, learn how to mix two different cocktails, and network with your colleagues... all from the comfort of your own home! Feel free to don your favorite holiday-themed ugly sweater, onesie, or even pajamas. Thanks to our sponsor, Well Data Labs, event proceeds will go directly to the SPE Denver Scholarship Fund. We look forward to seeing you there! Register [here](#) by December 9th
Contact [Ellen Scott Williams](#) and tap (or click) the picture to register!

COMMUNITY OUTREACH

Do you want to teach young students about energy, serve breakfast at the Denver Rescue Mission, or judge science fairs? Join other SPE members in giving back to our community!

Upcoming Events:



SPE Serves Breakfast at the Denver Rescue Mission

Date: December 15th, 2020

Time: 6:30 am – 8:30am

Location: Lawrence Street Community Center | 2222 Lawrence Street, Denver, CO 80205

Limit: 10 volunteers

Free

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 Coliseum. 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 Contact Community Outreach Team-member, Katrina Baer, for more details! kbaer@calfrac.com

Register Now

SPE Supports Our Next Generation

Date: 2020 Fall Academic Semester

Time: Flexible

Location: Remote, or in-person at your place of work

Limit: unlimited volunteers

Free

Description:

Legacy High School in Broomfield offers enrolled select Junior and Senior Students a unique opportunity: To participate in a job-shadowing / career practicum experience. Participating high school students must devote between 20 and 40 hours of their own time shadowing and learning from a volunteer professional.

Volunteers are needed to share their experiences with individual high school students, teach them about their company or field of work, show them what daily life is like at their job, and give them practical tasks or a small project. Upon completing the practicum, students will report on and present their findings to their teachers & classmates. Potential volunteer work environments include remote either telework or physically, in-person, at the workplace (at you and your employer's discretion).

Please Contact Community Outreach Team-member, Hilary Moore, for more details! hilary.moore@nbleenergy.com

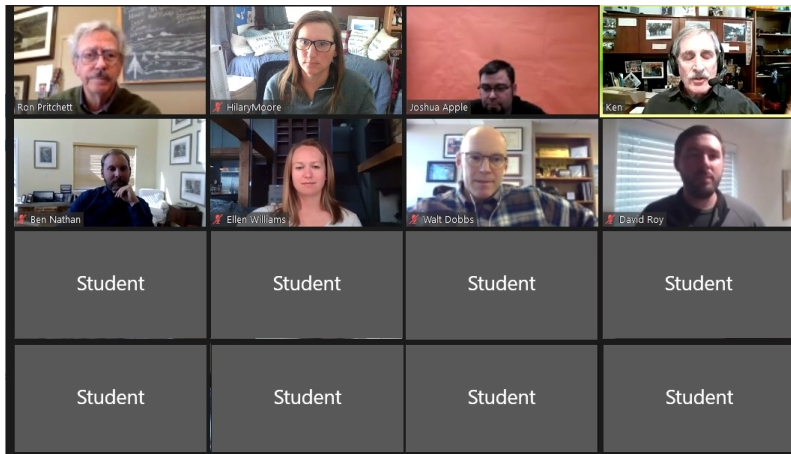
Register Now

SPE Supports Our Next Generation

Past Event: November 10th, 2020

Time: 12:30 PM – 3:30 PM

Location: Online, digitally. | Denver, CO

**Description:**

Hinkley High School in Aurora offers students the opportunity to participate in an engineering course-track. Professional SPE members virtually visited to help mentor students, guide, and provide constructive feedback for their senior engineering projects. Watch this space for additional upcoming opportunities in other Denver-Area school districts.

Please Contact Community Outreach Team-member, Hilary Moore, for more details! hilary.moore@nblenergy.com

Register Now

SPE Sponsors DMRSEF “Speak with a Scientist.”

Date: November 10th, 2020 – January 27th, 2021

Time: Flexible, Sign-Up for a Time-Slot Online

Location: Virtual Event.

Description:

Are you a STEM (Science, Engineering, Technology & Math) professional who wants to share your educational and career experiences with future STEM professionals? Sign up here to participate in one of our Speak with a Scientist event. In this one-hour virtual presentation, you will be a panelist with 2-3 other STEM professionals. Each panelist will give a 3-5 minute presentation about themselves, their educational path, and their career experiences. After the presentations, the panelists will be available for Q&A with the students, families, and teachers who register for the session. Sign-Up here: <https://tinyurl.com/y2hfcjmy>

Please Contact Community Outreach Team-member, Hilary Moore, for more details! hilary.moore@nblenergy.com

Register Now

Join the SPE Denver Virtual Scavenger Hunt Team Supporting Special Olympics Colorado

Date: December 12th and 13th, 2020

Time: 8:00 am December 12th – 8:00 pm December 13th

Location: Virtual Event

Free

Description:

Please join SPE Denver in their support of Special Olympics Colorado at the first-ever Virtual Scavenger Hunt hosted by Tito's Handmade Vodka. At 8:00 AM Saturday morning, your team will receive an email with the scavenger hunt items. Each item will be announced in a video describing the item your team must find or action your team must perform. Document your scavenger hunt items with photos or videos and submit them by 8:00 PM Sunday via the link that will be provided! Prizes will be awarded, and a virtual auction will also be run in conjunction with the event.

Please Contact Community Outreach Team-member, Katrina Baer, for more details! kbaer@calfrac.com

Register Now

SPE Sponsors DMRSEF “Preparing and Practicing Presentations.”

Date: January 13th, 2021 – February 13th, 2021.

Time: Flexible, Sign-Up for a Time-Slot Online

Location: Virtual Event

Free

Description:

Are you an expert at communicating your science or an experienced science fair judge? If so, we would love your help in supporting and advising our students as they prepare their posters and presentations for this year's fair. The first three calls will feature a brief presentation by DMRSEF staff, followed by opportunities for students to ask questions and receive advice from SciComm professionals. The last two sessions, Practice Your Pitch, will provide students with the opportunity to practice for their judge interview. Each volunteer shift will last one hour, and you'll get the chance to work with three different students in separate fifteen-minute time slots.

Sign-Up here: <https://tinyurl.com/yy8tzlqh>.

Please Contact Community Outreach Team-member, Hilary Moore, for more details! hilary.moore@nblenergy.com

Register Now

JOINT EFFORT— SPE Denver Section and Rocky Mountain MiT

There is a new effort afoot to help Rocky Mountain region oil industry professionals affected by the industry downturn that has been amplified by the pandemic. Several professional societies have banded together to launch Rocky Mountain Members in Transition, or MiT. This is an outgrowth of the MiT effort by the Society of Petroleum Engineers (SPE) in Houston that the Association of American Petroleum Geologists (AAPG) has joined. Other associated Rocky Mountain organizations now include SPE, AAPG, COGA, DWLS, RMAG, WEN, WOGA, and the University of Colorado, Denver GEM Program. The purpose is to help association members amid a career transition. For more information, please

contact Susan Nash at snash@aapg.org or Terrilyn Olson at tmolson8550@gmail.com.

Upcoming Events:

Members in Transition Webinar Series with Fred Henderson and Hank Held

Date: December 3rd, 2020

Time: 12:00 pm

Location: Online Webinar

Free

Description:

MiT proudly announces an upcoming webinar with Fred Henderson and Hank Held titled: "Geothermal Energy in Colorado: The Mt. Princeton Project." Register free online on the Rocky Mountain Association of Geologists website, here:

[Register Now](#)

Fred Henderson and Hank Held will give an overview of Chaffee County geology, geophysics and geochemistry, and the regulatory environment as they pertain to the Mount Princeton geothermal exploration and development model and wells drilled for the project in the Upper Arkansas Valley. This model will be related to other areas with a potential for geothermal energy development in Colorado. They will also address transferable skills from the petroleum industry for deep basins and as related to the future development of enhanced geothermal energy in Colorado and the DOE FORGE program.

Members in Transition Webinar Series with Tanya Inks, Steve Leeds, and KJ McDonough

Date: December 10th, 2020

Time: 12:00 pm

Location: Online Webinar

Free

Description:

MiT proudly announces an upcoming webinar with Tanya Inks, Steve Leeds, and KJ McDonough titled: "Staying in the Game: How to Become a Consultant" Register free online on the Rocky Mountain Association of Geologists website, here:

[Register Now](#)

The current downturn has left a lot of technical professionals unemployed and considering going out on their own, and others with recent experience in launching consulting companies. This panel discussion with Katie Joe McDonough, Steve Leeds, and Tanya Inks will cover starting a consulting company, finding clients, software, business insurance, and other relevant issues.

Please contact Members in Transition team-member Ben Nathan, for more details! bnathan@gmail.com

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