



San Joaquin Valley Section

SJV SPE News

*San Joaquin Valley Section
Society of Petroleum Engineers*

**Newsletter Editor:****Lena Wang**

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or Facebook page:

<http://connect.spe.org/>**Inside this issue:**[From the Chair](#)

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From the Chair, Reza Ardali

California Resources Corporation, Mojtaba.Ardali@crc.com

Dear members,

The year is flying by and the fall season is around the corner. I hope you all enjoy cooler temperatures these days in the valley. For our safety moment, school is back in session which means the school zone speeds are back in effect.

This month, we start the activities by Machine learning course on September 6 and 7th. There is still time left if you'd like to sign up for the course. Also, a few other courses are planned for September and October. On September 13th, we will have a great talk by Jeff Jones. He will be talking on "An Integrated Workflow Approach to Manage Steamflood Operations". Later in the month, the first Joint Golf Tournament between SPE and SJGS will be held on September 28th. So far, we have good number of sign-ups for the event. This should be a fun event hosting both geologists and engineers and would be a great networking opportunity. Please get in touch with Keith (Keith.Kostelnik@crc.com) if you'd like to attend or sponsor the event.

Lastly, the call for papers of the upcoming Western Region Meeting, April 22nd to the 25th 2019, has been sent! The event will be held in San Jose next year. We highly encourage the members to contribute to the technical program by publishing papers and present their work. The deadline for paper submission is October 25th. A full list of topics technical committee will be accepting can be viewed in the newsletter. Registration for the conference and short courses will be open shortly along with additional details for the conference.

Until next month.

Sincerely

Your SJV SPE 2018-2019 Chair,

Reza Ardali



An Integrated Workflow Approach to Manage Steamflood Operations

By Jeff Jones, E&B Natural Resources, Priyank Dwivedi, Schlumberger Limited

San Joaquin Valley SPE Section General Section Mtg

Thursday, September 13, 2018 @ 11:30 AM

Petroleum Club 12th Floor – 5060 California Avenue, Bakersfield

[Link to Download to Your Calendar – Button on Right](#)

Speaker: Jeff Jones, Vice President E&B Natural Resources

Reservations: RSVP by September 10th to avoid walk-in payments

Pay Online: [Online Payment Link](#)

Or Email Tom Hampton at thampton@sentinelpeakresources.com

Abstract

A rapid, user-friendly & easily deployable workflow solution for managing steamflood operations & reservoir management is presented that combines day to day surveillance techniques with performance prediction that uses an analytical model for proactive management of operations. The workflow is embedded in Schlumberger's OFM analysis software.

The workflow has been implemented in multiple projects (using public data and data provided by operators) to answer multiple critical questions like pattern response date, steam breakthrough time, expected peak rate from a pattern, arrival of the peak rate, underperforming or over-performing regions in a field, redistribution of the steam volumes, where to minimize steam oil ratio, classify patterns based on efficiency and so on.

It is built up on two core components. A set of diagnostic plots and data analytics that enable quick historical performance assessment of patterns as well as the surveillance of the current state of operations. Secondly, a widely used analytical performance model is applied to model the oil production from the patterns (early time, mid-life and late pattern life) that serves as a fast-computational tool for practising engineers. This presentation discusses the results from multiple fields on the application of proposed workflow and how it has assisted in field management and optimization. These methods are efficient and fast and more importantly user friendly for reservoir management of steamfloods.

Biography

Jeff is Senior Vice President with E&B Natural Resources and has over 46 years in the industry, all in thermal recovery operations. Jeff has authored 18 SPE technical papers and authored the chapter on Steam Enhanced Oil Recovery for the new SPE Petroleum Engineering Handbook. He has been very active in SPE regional meetings and symposia and he has served on the local section board of directors many years, including Section Chairman in 1999-2000. Jeff received the 2002 SPE Production Engineering Award, the 2004 Thermal Pioneer Award, the 2010 IOR Pioneer Award, 2010 Distinguished Service award, 2010 Distinguished Member award, and was a 2004-2005 SPE Distinguished Lecturer. He has taught an industry short course on Heavy Oil Engineering for 25 years and has consulted internationally. He holds a BSME from Fresno State University and is a Registered Petroleum Engineer in California.

Call for Papers**SPE Western North America Regional Meeting – 2019****“Thriving Through Change; Innovation, Analytics, and Sustainability”****April 22 to April 25, 2019****Venue:** DoubleTree Hotel, Silicon Valley, San Jose California

The **Golden Gate Section** of the Society of Petroleum Engineers invites the submission of proposals for papers to be presented at the 2019 SPE Western North America Regional Meeting. The meeting will provide an opportunity for operators, suppliers, contractors, and technology and service company personnel to network and share ideas, innovative solutions and information about optimizing operations and economics. Proposals are sought for papers sharing fundamental/applied research, technical innovations, practical applications, case histories and lessons learned. Topics of interest include but are not limited to:

Data Analytics

- Machine Learning in the Oil Field
- The Digital Oilfield and Utilization of Big Data

Drilling

- Well Interventions
- Coiled Tubing Drilling

Completions

- Formation Damage Evaluation and Mitigation
- ICDs and other Advanced Completion Technologies

Production and Operations

- Heavy Oil & Thermal Recovery
- Facility Integrity and Operating Life Extension
- Enhanced Oil Recovery Techniques & Technology

Health, Safety, Security, Environment, and Social Responsibility

- Regulatory Compliance in a Changing World
- Fracture Gradient Compliance in California
- Digital Security – Concerns and Solutions

Management and Information

- Risk Assessment and Mitigation
- The Digital Oilfield and Utilization of Big Data

Projects, Facilities and Construction

- Water Treatment, Beneficial Use, Recycle, Disposal Options
- Mature Field Optimization & Operations
- Pipeline Operations and Maintenance
- Steam Generation and Injection

Reservoir Description and Dynamics

- Reservoir characterization using static and dynamic data
- Modelling Excellence: Reservoir performance and monitoring
- Low Salinity Water Flooding

General Topics

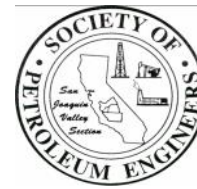
- Unconventional Resources
- Geothermal Resources and Operations
- Case Histories / Lessons Learned
- Technology: Innovations, Trials, and Implementations

Deadline for abstract proposal submissions: 25 October 2018.

Complete technical papers will be included in the SPEI Online library OnePetro, a multisociety library that covers a broad range of E&P literature. Attendees will have full-forever access to papers presented at this conference. For information and advice on authoring an SPE paper, see <http://www.spe.org/authors/papers.php> and <http://www.spe.org/authors/resources/>. For the paper policy of the conference, see <http://www.spe.org/events/papers/policies.php>



2018
SPE & SJGS
GOLF TOURNAMENT



Dear Potential Sponsor,

We are proud to announce our the **first joint SJGS & SPE Golf Tournament!** The event will be held on September 28th, 2018 at Sundale Country Club. This is a unique opportunity to get twice the exposure for one fee!

Our annual tournament will be held on September 28th, 2018 at Sundale Country Club. We want to include in registration, the logos of our sponsors, and allow them to register also, so the committee needs a response as soon as possible on your intent to sponsor this tournament or not. By simply replying to this keith.kostelnik@crc.com your intent (yes or no), and what level of sponsorship you intend to do (Platinum, Gold, or Silver), will allow the committee to get your logo on the registration AND get a link to sign up a foursome for the tournament.

A great deal of the success of these events can be attributed to the contributions of tournament sponsors in the form of cash donations, prizes and great food. All proceeds from the golf tournament will fund scholarships that are studying geology, engineering, and oil related majors. Requests for sponsorships and donations are approached by your company frequently and we realize that you have to make choices and use discretion with your allocated funds. We hope you choose to participate with the SPE, as all of the proceeds from the tournament go directly to our local oil industry promotion, and our local students.

We are inviting local companies to sponsor this event through three levels of sponsorship: Platinum (\$2,000), Gold (\$1,000), and Silver (\$500). Please see the benefits of each sponsorship level at the end of this letter. In addition, companies or individuals that would like to advertise through donation of raffle prizes and registration items are also welcomed. This year's golf tournament promises to be a premier event with high participation. Your generosity will be visibly acknowledged and announced at the awards and raffle event following the tournament.

If you're willing to sponsor, please by return email, confirm your participation and I will direct you on how to make payment and how to register your team (if you wish to play). Also, if you have a good quality logo for our registration (jpeg format), please attach and we will use.

We sincerely appreciate your support,

Tax ID: 75-2001539

Golf Extravaganza Committee

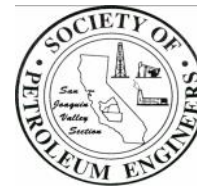
Keith Kostelnik CRC661-529-4548 keith.kostelnik@crc.com

Duane JohnstonCRC 661-303-8709 Duane.Johnston@crc.com

Jon Goodell CRC661-619-6244 Jonathan.goodell@crc.com



**2018 SPE & SJGS
GOLF TOURNAMENT
Sponsorship Information**



PLATINUM SPONSOR - \$2,000

- Company name in Newsletter & Website for 1 year
- Special acknowledgement in tournament brochure
- Special acknowledgement at post-tournament awards and raffle
- **One Hole on the Course to use for Promotion or to hold an event at that hole of your choice (closest to pin, long drive, second shot closest to pin, etc.)**

GOLD SPONSOR - \$1,000

- Company name in Newsletter & Website for 1/2 year
- Special acknowledgement in tournament brochure
- Special acknowledgement at post-tournament awards and raffle
- **One Hole on the Course to use for Promotion or to hold an event at that hole of your choice (closest to pin, long drive, second shot closest to pin, etc.). Hole selection is after Platinum Sponsors choices are made.**

SILVER SPONSOR - \$500

- Company name in SJV SPE Newsletter for 1/2 year
- Company name at sponsor hole
- Allowed "Early Bird Registration" for 1 teams (additional payment required)
- Acknowledgement at post-tournament awards and raffle

Payment link: <https://squareup.com/store/society-of-petroleum-engineers-san-joaquin-valley-section/item/gulf-tournament-registration>



San Joaquin Valley Section

Impact Resistant (IR) Cage for Pump Efficiency Enhancement

The IR Cage is a top load insert style cage for rod pump application. This cage is used as a traveling, standing, and double valve closed cage. Some of the common cage failures are attributed to leaking seat, cage beat outs, chipping seats and cage and other related build up or erosion. The cage features a thermoplastic insert with no windows (unlike other insert guided cages). It is made with new insert material that offers dimensional stability and nylon based - similar material used in bearings, gears and conveyer belts due to its abrasion resistance and low coefficient of friction. Material selection were based on ductility and brittleness. The no window feature of this cage allow up to 82.5% increase in bypass area in comparison to traditional cage, which in turn reduce the velocity and turbulence. This results in reduced beat out, shipping, fluid erosion and sand abrasion causing the run life of pump components to increase and enhance pump efficiency. A reduction in velocity change also cause reduction in pressure change which is critical in minimizing gas break out. Few case studies were performed to support this.

Biography: Simon Shin is a Mechanical Engineer who received his BSME degree at the University of California, Riverside in 2013. Shortly after, he joined Black Gold Pump & Supply, Inc. in 2014 as an Associate Engineer. He is currently Senior Engineer and manages the engineering group. Throughout his career, he has designed and created many projects and IP products that has helped customers increase efficiency and production. He currently has 2 patents granted and 1 patent pending with Black Gold.

Pay Online: [Online Payment Link](#)

Or Email Linda Mohammad at

SUBSURFACE STUDY GROUP

Wednesday,
September 26,
2018

11.30 AM-1PM

Aera Energy
Room CC50
10000 Ming Ave.,
Bakersfield

Simon Shin
Black Gold Pump &
Supply, Inc.

RESERVATION

**RSVP by September
24th to avoid walk-in
payment**

**\$25 for members
\$30 for non-members
\$35 for late payment
walk-in**

SPE SJV - Training Opportunities for 2018

Local SPE section is planning to ramp up training classes in Bakersfield for the rest of 2018 and upcoming year. SPE is partnering with various courses providers in order to bring high quality learning opportunities to Bakersfield at the lowest possible cost for participants.

** Details for classes are to come during the year and all dates are tentative.

** Classes execution will depend on enrollment the sooner you enroll and/or can commit, the more trainings can be brought!

For comments and suggestions: Cenk Temizel @ CTemizel@aeraenergy.com or
Gwyn Mali @ gwynmali@chevron.com

Course Title	Schedule Date	Length	Instructor
Machine Learning Course	Sep. 6-7th	2 days	DR.SIDDHARTH MISRA
Cement Evaluation and Remediation	Oct.9-10th	2 days	Dr. James Smolen - SPE William (Bill) Ott - SPE
API storage tank Course	Oct. 23-25th	3 days	John Cornell

Course registration link:

https://market.ou.edu/C20233_ustores/web/store_main.jsp?STOREID=188&SINGLESTORE=true

<https://squareup.com/store/society-of-petroleum-engineers-san-joaquin-valley-section/item/cement-evaluation-and-remediation>

<https://squareup.com/store/society-of-petroleum-engineers-san-joaquin-valley-section/item/introduction-to-api-storage-standards>

SPE membership link: <https://www.spe.org/join/>

Course registration link: <https://squareup.com/store/society-of-petroleum-engineers-san-joaquin-valley-section/item/introduction-to-api-storage-standards>

Survey link <https://www.surveymonkey.com/r/SXWNFH8>

Please click here to complete the short survey to provide feedback to SPE SJV. Thanks

<https://spe-sanjoaquinvalley.informz.net/informzdataservice/onlineversion/ind/bWFpbGluZ2luc3RhbmNlaWQ9NzAxMjY0MyZzdWJzY3JpYmVyaWQ9ODA0NTk0NzM2>



PROFESSIONAL DEVELOPMENT
FOR OIL AND AND SHALES

MACHINE LEARNING TECHNIQUES OF RESERVOIR CHARACTERIZATION



DR. SIDDHARTH MISRA
THE UNIVERSITY OF OKLAHOMA

DEPARTMENT OF ENERGY
AWARD WINNER

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BAKERSFIELD, CALIFORNIA



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Aera Academy Rm32 | 10000 Ming avenue | Bakersfield, CA 93311

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- EACH PARTICIPANT IS REQUIRED TO BRING A LAPTOP.

CONTACT

Yoana Walschap | Executive Director | ywalschap@ou.edu
Anna Restuccia | Program Coordinator | annarestuccia@ou.edu

Contact in CA: Guillaume Moog | 661-665-5499 | gmoog@aeraenergy.com



MACHINE LEARNING TECHNIQUES OF RESERVOIR CHARACTERIZATIONS

MACHINE LEARNING TECHNIQUES OF RESERVOIR CHARACTERIZATION

Dr. Siddharth Misra (The University of Oklahoma)

This course will present an overview of some common machine learning techniques deployed in shale reservoir characterization. Emphasis will be on the use of neural networks in Bakken and Wolfcamp shale formations using Python and Tensorflow.

Who should attend?

Petroleum engineers and geoscientists will learn about the latest applications of machine learning and neural networks in reservoir characterization. Attendees will learn to write machine learning codes using Python and Tensorflow.

Prerequisites

Basic understanding of probability, statistics, and numerical methods. Familiarity with writing beginner-level computer programs in any language.

TECHNICAL CONTENT

Regression, classification, and interpolation

- Shale permeability, water saturation model, rock quality, PVT correlations, and pressure transient analysis.

Conjugate gradient method

- Estimation of hydrocarbon saturation in Bakken, Wolfcamp, and north-European shale formations.

k-nearest-neighbors and *k*-means algorithms

- Rock typing in Bakken and Wolfcamp shale formation.

Artificial neural network

- Generation of dielectric permittivity and electrical conductivity dispersion logs in shales.
- Estimation of hydrocarbon saturation in Bakken and Wolfcamp shale formations.
- Generation of geomechanical properties in Wolfcamp shale formation.

Deep neural network

- Generation of NMR T2 distribution in shales.
- Estimation of permeability in Bakken shale formation.

ABOUT THE INSTRUCTOR

Dr. Sid Misra is assistant professor of petroleum engineering at the University of Oklahoma, USA. He graduated with a Ph.D. in petroleum engineering from the University of Texas at Austin, USA. His research interests are data-driven methods, machine learning, parameter estimation, electromagnetic sensing, formation evaluation, and pressure/rate transient analysis. His work finds applications in unconventional reservoir characterization and formation evaluation. After the completion of his Doctoral studies in 2015, he began his academic career at the University of Oklahoma. He teaches numerical methods, petrophysics, well logging, and well testing. Dr. Misra has more than 40 publications in peer-reviewed journals and as part of the conference proceedings. He has given numerous invited talks on shale reservoir characterization for the industry and at the universities around the world. He is the current associate editor of the SPE Reservoir Evaluation and Engineering Journal and has been a technical editor for a variety of scientific journals. He has served in thesis committees of more than fifteen MS and PhD students at the University of Oklahoma.

REGISTRATION FEE: \$1,500

DURATION: 2 days

DATE: Sept. 6 & 7, 2018

LOCATION: Bakersfield, CA at AERA Energy
10000 Ming Avenue, Bakersfield, CA 93311

“Introduction to API Storage Tank Standards”

by Mr. John Cornell

Oct. 23-25th, 2018

Where: University of Phoenix, 4900 California Ave, Bakersfield, CA 93309

Dear SJV SPE Members,

The SPE is pleased to announce an Introduction to API Storage Tank Standards course in Bakersfield on the 23-25th October 2018. (University of Phoenix, 4900 California Ave, Bakersfield, CA 93309)

This is an intensive three-day course which is designed for Facility Engineers, Project Engineers, operating personnel and contractors responsible for the design, construction, inspection, maintenance, regulatory, compliance, and operation of both large and small above ground storage tanks.

The cost of the course will be \$1,950 for SPE members and \$2,250 for non SPE members. Registration is required by 10th October. (SPE annual membership is \$90)

Course registration link: <https://squareup.com/store/society-of-petroleum-engineers-san-joaquin-valley-section/item/introduction-to-api-storage-standards>

SPE membership link: <https://www.spe.org/join/>

Class time will be 8 am to 5pm. Lunch will be provided. Registration starts at 7:45 am

For additional information, please contact Gwyn Mali (gwynmali@chevron.com) or Cenk Temizel (CTemizel@aeraenergy.com).

Regards,

SJV SPE Continuing Education

Course Outline:

1)Day One: Large Atmospheric Tanks (API-650) - Tank introduction, Materials, Design, Fabrication, Construction, External/ Internal floating roofs, Marking, and additional design and construction details.

2)Day two: Existing Tank Evaluation (API-653) – Introduction to tank failures, Brittle fracture, Inspection drivers and considerations, Inspection types and schedules, Safety concerns around tanks, Failure (corrosion) types, etc.

3)Day three: (API -12F and 12B) Tank Materials, Design, Fabrication of field production tanks.

Instructor:

Mr. John Cornell is the owner of H.I.R. Technical Services, a well-recognized tank consulting firm for storage tank design, fabrication, construction, inspection, and repair. Mr. Cornell has been The Senior Training Provider for The USDOT for PHSMAs as relating to Large Breakout tanks since 2001 and is an expert on above-ground storage tanks.

LinkedIn profile here: <https://www.linkedin.com/in/john-cornell-3a2b8346/>

Instructor substitutes may be required.

Cement Evaluation and Remediation

by James J. Smolen and William K. (Bill) Ott

Oct. 9-10th, 2018

Where: Aera Academy CC38 - 10000 Ming Avenue, 93311 Bakersfield, CA

Dear SJV SPE Members,

The SPE is pleased to announce a Cement Evaluation and Remediation course in Bakersfield on the **9-10th October 2018**. (Aera Academy, Room CC38, 10000 Ming Avenue, 93311 – Use visitor entrance and parking)

This is a two-day training course that will focus on detection of fluid channels, voids and leaks, and their effective repair. The course is designed for: drilling and completion engineers, field supervisors, petroleum engineers, and geologists.

The cost of the course will be \$1,400 dollars for SPE members and \$1,800 for non SPE members. Registration is required by 25th Sept. (SPE annual membership is \$90)

Course registration link: <https://squareup.com/store/society-of-petroleum-engineers-san-joaquin-valley-section/item/cement-evaluation-and-remediation>

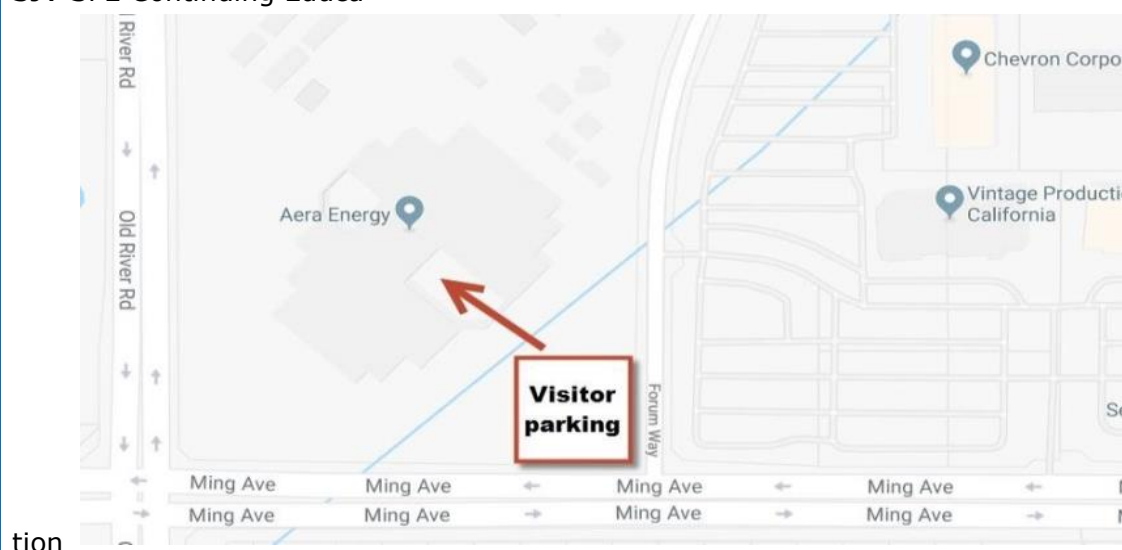
SPE membership link: <https://www.spe.org/join/>

Class time will be 8 am to 5pm. Lunch will be provided. Registration starts at 7:45 am

For additional information, please contact Gwyn Mali (gwynmali@chevron.com) or Cenk Temizel (CTemizel@aeraenergy.com).

Regards,

SJV SPE Continuing Educa-



Cement Evaluation and Remediation

by James J. Smolen and William K. (Bill) Ott

Oct. 9-10th, 2018

Where: Aera Academy CC38 - 10000 Ming Avenue, 93311 Bakersfield, CA

CEUs

1.6 CEUs (Continuing Education Units) will be awarded for this 2-day course.

[SPE reference:](#)

Instructors

James J. Smolen has more than 30 years of experience in cased hole well logging, applications, related research, and training. He began in the oil industry in 1970 with Schlumberger and since 1980, has been an officer and director of Petroleum Computing, as well as an international consultant and trainer. He has numerous publications to his credit, including the 1996 PennWell text, *Cased Hole and Production Log Evaluation*. Smolen was a Distinguished Lecturer for SPE and SPWLA. He holds a BS from Northwestern University, and earned his MS and PhD degrees from the University of California, Berkeley.

William K. (Bill) Ott, PE is an independent, international petroleum consultant based in both Houston and Singapore and a registered professional engineer in Texas with more than 40 years of well completion and workover experience. He was an SPE Distinguished Lecturer in 2007–2008 and has conducted technical petroleum industry courses worldwide. He has written numerous technical papers relating to well completions and workovers, and is coauthor of the popular *World Oil Modern Sandface Completion Practices Handbook* and *World Oil Downhole Remediation for Mature Oil & Gas Fields Handbook*. Ott holds a BS in chemical engineering from the University of Missouri.

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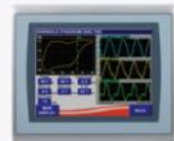


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BCP Group Artificial Lift, Inc.

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Houston, TX 77086

5630 District Blvd # 118
Bakersfield, CA 93313

(USA)
www.bcpgrp.com
info@bcpgrp.com



GOLDEN TROUT ENGINEERING^{LLC}**Contact Information**

Golden Trout Engineering, LLC
 202 Cannongate Drive
 Bakersfield, CA 93312
 (661) 331-4779

Charlie.webb@bak.rr.com

goldentroutengineering.com

Technical Consulting for the Oil & Gas Industry

I am Charlie Webb, owner of Golden Trout Engineering in Bakersfield, California. I have 36 years of unique technical experience with heavy and light oil fields in the San Joaquin Valley, including expertise in new technology development, project management, and design & construction of facilities. I worked 33 years with Chevron, including the six years as Technology Advisor for the San Joaquin Valley Business Unit.

Services

Detailed engineering and design of surface facilities, including water treatment, well testing, steam generation and distribution, oil dehydration, and sour gas handling and processing.

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Naftex Operating Company Petroleum Engineer

Naftex, an independent oil and gas company with a successful track record of acquisitions, dispositions, exploitation and development of producing properties in California since 1988, is offering an immediate employment opportunity for a Petroleum Engineer to fill a position in our Bakersfield, California offices. This key position will provide technical support and field level implementation for ongoing operations and project expansions.

This position will interact routinely with operations personnel, service companies, regulatory agency representatives and consultants. Responsibilities will include thermal development operations, facilities design/construction, well drilling/remediation, and production surveillance.

A Bachelor's degree in Petroleum, Chemical or Mechanical engineering plus a minimum of 5-7 years of industry experience is required. Excellent oral and written communication and strong interpersonal skills to work effectively in a team environment are desired. The candidate must be self-motivated with the ability to work independently and to handle multiple projects.

The successful candidate will enjoy a generous and competitive benefit package commensurate with experience. To apply, email your resume and cover letter to rhorne@naftex.com.

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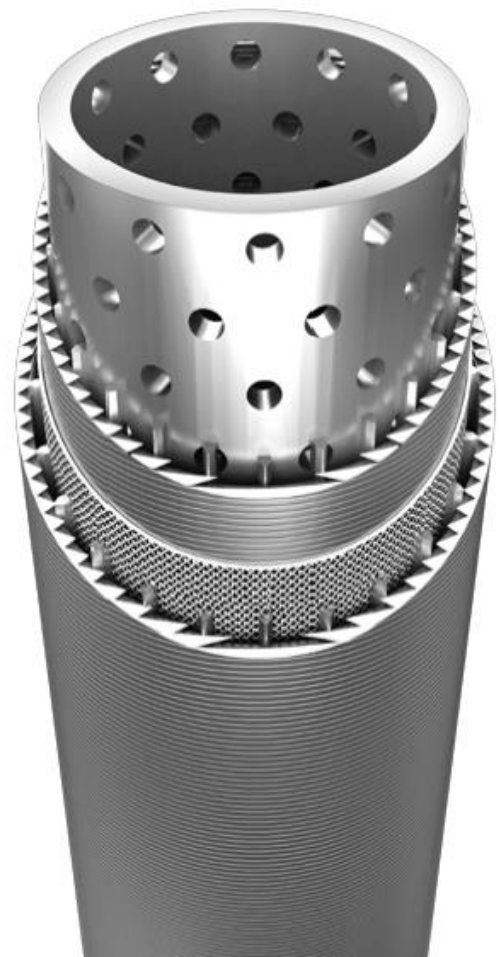
An independent oil and natural gas producer used DeltaExtreme™ in a deep shelf sub-salt well, drilled to a total depth of approximately 20,000 feet, in a water depth of 372 feet.

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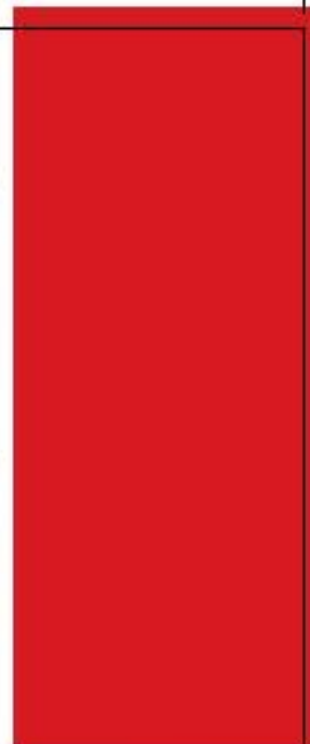
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SJV SPE Board of Directors

2018-2019

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A Note from Guillaume Moog, SJV-SPE Membership Chair

Member Benefits

- Conference and Workshop Discounts – for technical knowledge and interaction
- SPE Bookstore and Magazines – Journal of Petroleum Technology(JPT)
- Technical Papers and Libraries – access to OnePetro, largest online technical library
- Career Advancement – Leadership and volunteer opportunities, Career Center for tools
- Purchases – discounts on insurance, car rental, Lands' end Business Outfitters
- Use Membership Icon in emails

Membership includes one SPE Local Section: San Joaquin Valley(SJV) Section of SPE, sjv.spe.org

Other Resources to Join SPE

Join online: www.spe.org/join

YouTube Video: [https://www.youtube.com/How to Join SPE \(Professional Membership\)](https://www.youtube.com/How to Join SPE (Professional Membership))

Professional membership Qualifications:

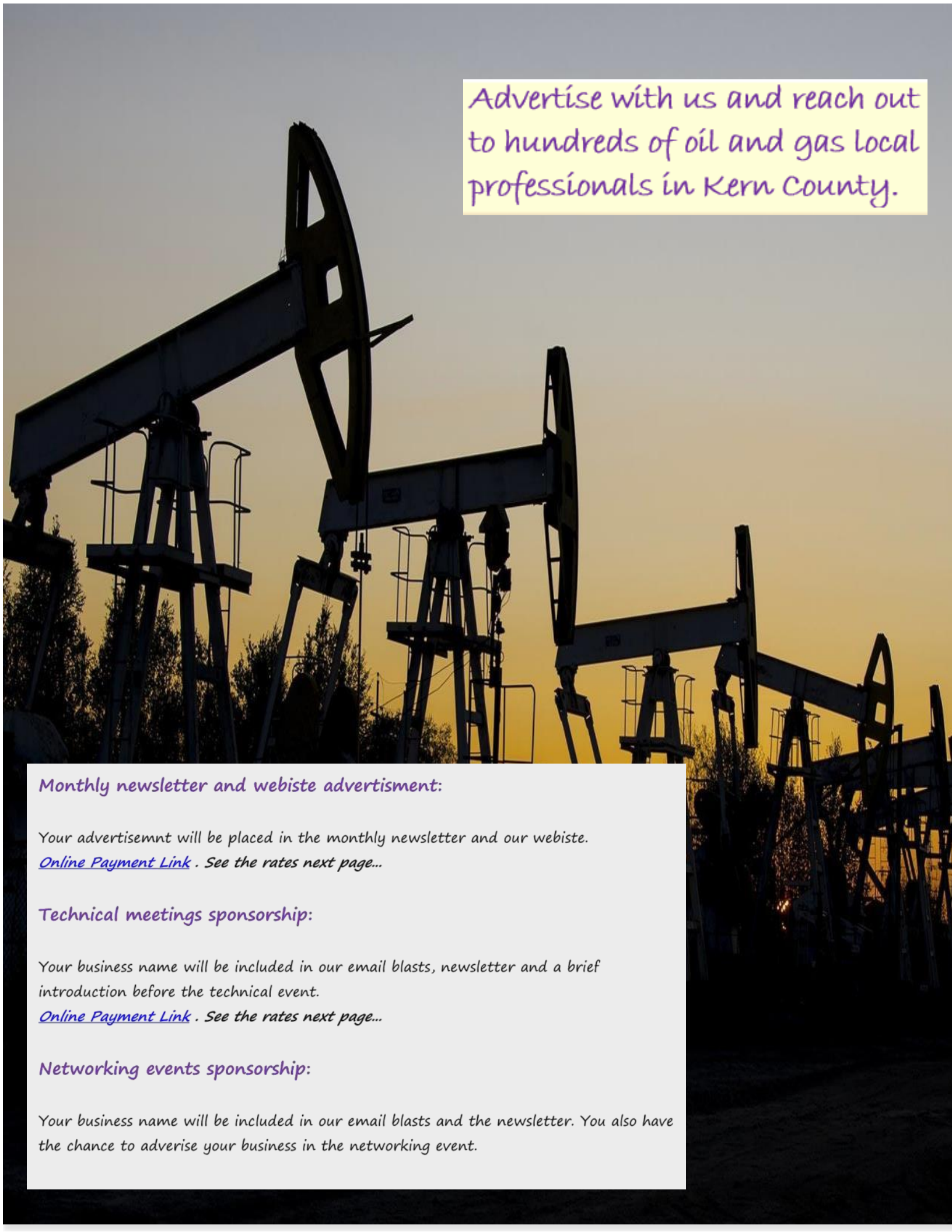
Employed in work related to petroleum industry AND have one of the following:

1. University degree equivalent to 4-year Bachelor's degree in engineering or basic or applied sciences
2. 2-year science or engineering degree or a 4-year degree in a field other than science or engineering
3. 6 years of active practice in support of petroleum engineering or in the application of science to the petroleum industry

Dues for United States are \$90/year emembership + \$20 Entance fee

Former Member? Look at <http://www.spe.org/join/reinstate.php>

Student? Look at: <https://www.youtube.com/Student Membership>

The background of the entire page is a photograph showing the silhouettes of several oil pumpjacks (jackals) against a bright, hazy sky at sunset or sunrise. The pumpjacks are arranged in a row, receding into the distance. The sky is a mix of orange, yellow, and light blue. The pumpjacks are dark, almost black, against the lighter sky.

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Networking events sponsorship:

Your business name will be included in our email blasts and the newsletter. You also have the chance to advertise your business in the networking event.

Advertising Order Form for the Monthly Newsletter

San Joaquin Valley Section of Society of Petroleum Engineers SJV Section of SPE
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	Description	Rate (\$)/Month	Size, Inches
<input type="checkbox"/>	One Business Card Size	25.00	2 x 3.5
<input type="checkbox"/>	Two Business Card Size	50.00	4 x 3.5
<input type="checkbox"/>	Three Business Card Size	75.00	6 x 3.5
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<input type="checkbox"/>	½ Page, Two Columns	125.00	5 x 7
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Jessica Powell, Newsletter Editor JPowell@KAPPetro.com