Dear Members,

The Los Angeles Basin Section of SPE hosted the annual SPE Western Regional Meeting (WRM) in April near Disneyland. I hope our members had the opportunity to participate in the event and network with colleagues and other industry professionals.

We are proud to have such great section members in our San Joaquin Valley (SJV) section who are big contributors to SPE and the Southern Californian oil industry. Five SJV members received regional awards for their accomplishments at the WRM! Congratulations to following recipients of the regional awards: Robert Gales (Regional Formation Evaluation Award, CRC), Scott Hoffman (Regional Projects, Facilities and Construction Award, CRC), Stephen Bartz (Regional Production and Operations Award, CRC), and Aditya Varma (Regional Management and Information Award, CRC). And please don’t be shy about recognizing and nominating your colleagues who are greatly contributing to our industry the next time around.

Even though the golf tournament is still several months away, I would like to get our potential sponsors to start reaching out to our board members for more information sooner than later. The date is set for September 14th, 2018. Hopefully the weather starts to cool down by then so it would be an enjoyable event for everyone. All proceeds from the event will help to support our local students’ scholarship program.

Another reminder to everyone that nomination for next year’s board (2018-2019) is still open. Our section has made many positive changes the last few years and to keep this going, we need support from our section members. If you have any questions, you can contact me at Jeff.Kim@crc.com or Keith Kostelnik at Keith.Kostelnik@crc.com. The form to fill out will be attached in this newsletter.

As always, I would love to hear your comments and ideas about how we can better serve our members. Please feel free to contact me at Jeff.Kim@CRC.com.

Sincerely,

Jeff Kim
2018 Election
San Joaquin Valley Section - Society of Petroleum Engineers

<table>
<thead>
<tr>
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<td>Job Title</td>
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**Brief Work History**

**SPE & Petroleum Industry Contributions**

**Candidate Synopsis**
SPE SJV - Training Opportunities for 2018:

2018 is coming soon, new budgets for training will be allocated and training plans are soon to be decided. With the recent downturn, some of many members haven’t the possibility to enroll in as much training as desired due to the cost of training and associated expenses (especially out of town). For this reason, 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.

** Enrollment will open in January 2018. Classes execution will depend on enrollment the sooner you enroll and/or can commit, the more trainings can be brought!

For comments and suggestions: gmoog@aeraenergy.com

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Schedule Date</th>
<th>Length</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>API storage tank Course</td>
<td>Sept. 18-20</td>
<td>3 days</td>
<td>John Cornell</td>
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<tr>
<td>Potential Courses</td>
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<tr>
<td>Cement Evaluation and Remediation</td>
<td>TBD</td>
<td>2 days</td>
<td>Dr. James Smolen - SPE</td>
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<td>William (Bill) Ott - SPE</td>
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<td>Data Driven Analytics (Data Mining)</td>
<td>TBD</td>
<td>1 day</td>
<td>Andrei Popa - Chevron</td>
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<td>Decision Quality</td>
<td>TBD</td>
<td>2.5 days</td>
<td>Eric Bickel - Decision Strategic Group</td>
</tr>
<tr>
<td>Modeling for strategic insight</td>
<td>TBD</td>
<td>2.5 days</td>
<td>Eric Bickel - Decision Strategic Group</td>
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<tr>
<td>New Opportunity in old Fields</td>
<td>TBD</td>
<td>5 days</td>
<td>Petroskills</td>
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Course Descriptions Link
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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.

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Contact Information
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Charlie.webb@bak.rr.com
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Thank You to Our Sponsors 2017 SPE SJV Golf Tournament
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Western Region Awards

We all work tirelessly to progress our profession, but there are a few standouts in each discipline. Please take the time to honor college’s efforts and nominate them for an award.

Winners will be presented with a plaque at the upcoming Western Regional Meeting in Anaheim, April 22nd-26th.

Technical Awards
Completions Optimization and Technology
Drilling Engineering
Formation Evaluation
Health, Safety, Social Responsibility and Environment
Management and Information
Production and Operations
Projects, Facilities and Construction
Reservoir Description and Dynamics

Service Awards
Distinguished Achievement Award for Petroleum Engineering Faculty
Distinguished Corporate Support Award
Regional Public Service Award
Service Award
Young Member Outstanding Service Award

Eligibility
Must be a paid, professional member
Must be residing in region for at least the most recent 12 months prior to award
Must not have served as an officer or director of the SPE International Board of Directors within 24 months of award
Must not be an Honorary Member
Must not be a recipient of:
  - International award equivalent
  - John Franklin Carl Distinguished Professional Award
  - Lester C. Uren Technical Excellence Award
  - DeGolyer Distinguished Service Medal
Must not be a recipient of this same award in the region in the last 5 years
Cannot be a resident in any US or EU sanctioned country
Cannot nominate self

Nominations Can Be Made Here
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Abstract

In traditional reservoir management, various types of predictive models have been applied over the years for either qualitative or quantitative optimization of various reservoir management decisions. Such models range from the very simple analytical models (type-curves, etc.) to the very complex reservoir simulation models. Simulation models attempt to model detailed behavior of reservoir physics and integrate all kinds of measured data, and can therefore be used for quantitative optimization. However, many issues such as the significant time and effort required to build and calibrate these models, computational complexity, etc. generally prohibit their practical use for closed-loop quantitative optimization.

In short, there is a significant opportunity to enhance traditional reservoir management with new quantitative tools and technologies that allow integration of all kinds to data to create accurate predictive models while significantly reducing the cycle time from data to decisions. Such models can then be used to efficiently optimize key reservoir management decisions and improve ultimate recovery, NPV etc. over the life of the field.

Additionally, there have also been many attempts at the application of traditional machine learning approaches for predictive modeling of production performance. While such models can be built very efficiently and are very fast to evaluate, however, due to spatial sparsity of data, combined with poor measurement quality, and the absence of the underlying physics in such models, such purely data-driven approaches have only had limited success. Key reservoir management decisions such as infill drilling locations are hard to predict with such models as new wells do not have any historical data.

This talk describes a unique modeling approach termed Data Physics. Data Physics is the amalgamation of the state-of-the-art in machine learning and the same underlying physics present in reservoir simulators. These models can be created as efficiently as machine learning models, integrate all kinds of data, and can be evaluated orders of magnitude faster than full scale simulation models, and since they include similar underlying physics as simulators, they have good long term predictive capacity and can even be used to predict performance of new wells without any historical data.

We present applications of Data Physics models to real steamflood and waterflood optimizations with thousands of wells, wherein, the injectant is redistributed to maximize/minimize multiple objectives. A significant increase in actual incremental oil production and reduction in operational cost is demonstrated.
Data Driven Modeling and Optimization of Oil and Gas Assets

By R. Pallav Sarma, Chief Scientist, Tachyus

Thursday, May 17th, 2018 @ 11:30 AM
Petroleum Club 12th Floor - 5060 California Avenue, Bakersfield

Speaker: Pallav Sarma, Tachyus, San Francisco

Reservations: RSVP by May 15th to avoid walk-in payment

Using the corresponding link below to pay online: Online Payment Link or Email Reza Ardali at mojtaba.ardali@CRC.com

Biography

Pallav Sarma is Chief Scientist at Tachyus leading the development of the modeling and optimization technologies underlying the Tachyus platform. His expertise is in the general area of closed-loop reservoir management, with multiple patents and numerous papers on the subject. He has over 12 years of experience working for Chevron and Schlumberger. As a Staff Research Scientist for Chevron, he was responsible for their key data assimilation and optimization technologies. He received many awards including the Dantzig Dissertation award from INFORMS, Ramey and Miller Fellowships and Stanford, and Chevron’s Excellence in Reservoir Management award. He loves to actively participate in oil industry organizations, and is currently in the committees of the SPE Reservoir Symposium Conference, the European Conference on the Mathematics of Oil Recovery (ECMOR), and Stanford Petroleum Investment Committee (PIC). Pallav holds a Ph.D. in Petroleum Engineering and a Ph.D. Minor in Operations Research from Stanford University, and a B.Tech from Indian School of Mines.
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<th>COMPANY</th>
<th>PHONE</th>
<th>E.MAIL</th>
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</thead>
<tbody>
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<td>Section Chair</td>
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<td>California Resources Corp.</td>
<td>661.412.5507</td>
<td><a href="mailto:Jeff.Kim@crc.com">Jeff.Kim@crc.com</a></td>
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<td><a href="mailto:aowen@ebresources.com">aowen@ebresources.com</a></td>
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<td><a href="mailto:thampton@sentinelpeakresources.com">thampton@sentinelpeakresources.com</a></td>
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<td>Chevron</td>
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<td><a href="mailto:Jared.Paddock@chevron.com">Jared.Paddock@chevron.com</a></td>
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<tr>
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<td>509.481.8220</td>
<td><a href="mailto:BAKrupla@aeraenergy.com">BAKrupla@aeraenergy.com</a></td>
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<tr>
<td>YP Co.Chair</td>
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<td><a href="mailto:JGarrido@aeraenergy.com">JGarrido@aeraenergy.com</a></td>
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<tr>
<td>Activities</td>
<td>David Susko</td>
<td>Baker Hughes</td>
<td>661.336.3408</td>
<td><a href="mailto:Dave.Susko@gmail.com">Dave.Susko@gmail.com</a></td>
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<tr>
<td>Community Outreach Education</td>
<td>Tarang Lal</td>
<td>Aera Energy LLC</td>
<td></td>
<td><a href="mailto:TLal@aeraenergy.com">TLal@aeraenergy.com</a></td>
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<td>Newsletter Editor</td>
<td>Fariba Neese</td>
<td>E&amp;B Resources</td>
<td>661.619.0335</td>
<td><a href="mailto:Fneese@ebresources.com">Fneese@ebresources.com</a></td>
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<td>Award Nominations</td>
<td>Keith Kostelnik</td>
<td>California Resources Corp.</td>
<td>661 412.5427</td>
<td><a href="mailto:Keith.Kostelnik@crc.com">Keith.Kostelnik@crc.com</a></td>
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<tr>
<td>Western NA Regional Director</td>
<td>Andrei Popa</td>
<td>Chevron</td>
<td>661 654.7187</td>
<td><a href="mailto:AndreiPopa@chevron.com">AndreiPopa@chevron.com</a></td>
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<tr>
<td>CSUB Student Chapter President</td>
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<td>CSUB</td>
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A Note from Reza Ardali, SJV-SPE Membership Chair

To state the obvious, this is a tough time in the oil business. Please note, SPE has some good benefits to help us weather through this downturn. For those of you that know of others that have been laid off, please forward this information below to them. I think this will be helpful to them.

May I suggest you take a look at the following links:


2016 President Nathan Meehan, “Should I Stay or Should I Go?”
[https://www.spe.org/twa/print/archives/2016/2016v12n1/03_PresidentsColumn_v12n1.pdf](https://www.spe.org/twa/print/archives/2016/2016v12n1/03_PresidentsColumn_v12n1.pdf)

Please note, in spite of unemployment, you can renew your SPE membership. You can apply for a Dues Waiver. To qualify for a dues waiver, you must ( [http://www.spe.org/join/options.php](http://www.spe.org/join/options.php) ):

- Provide a written request for unemployment or disability.
- Submit a dues waiver request annually.
- Email service@spe.org, or write to:
  SPE
  Attn: Membership Processing
  P.O. Box 833836
  Richardson, TX 75083-3836 USA.

By keeping your membership, you will still be on our distribution list for networking, newsletters, and have access to helpful information to help you thrive in a downturn. Keeping your membership will help you get information from the SJV SPE section on future networking opportunities.

Member Benefits

- Conference and Workshop Discounts – for technical knowledge and interaction
- 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](http://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 membership + $20 Entrance Fee

Student? Look at: [https://www.youtube.com/Student Membership](https://www.youtube.com/Student Membership)
Advertise with us and reach out to hundreds of oil and gas local professionals in Kern County.

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Your advertisement will be placed in the monthly newsletter and our website. [Online Payment Link]. See the rates next page...

Technical meetings sponsorship:

Your business name will be included in our email blasts, newsletter and a brief introduction before the technical event. [Online Payment Link]. See the rates next page...

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  
PO BOX 21135, Bakersfield, CA 93390 sjv.spe.org Taxpayer ID# 75-2001539

## Company Information

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<td>E-Mail Address:</td>
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## Monthly Advertising Rates (Check One)

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<td>□ Three Business Card Size</td>
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<td>□ Full Page</td>
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<td>□ General Section Meeting</td>
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