

# SPE Mid-Continent Section Newsletter

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Mid-Continent Section



*Society of Petroleum Engineers*

## 1917-Mid-Continent Section-2017



# SPE Mid-Continent Section

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Voting members consist of the Executive Committee. The Chairman only votes in the event of a tie. A Motion can be voted upon with a Quorum of the Voting Members present. A Quorum consists of five Voting Members present. An affirmative vote will consist of 51% of the Quorum present. Committee Chairmen and in their absence, the Committee Vice Chairmen are encouraged to attend board meetings and provide representation and committee reports. The editor welcomes newsworthy items about SPE members or events. Please provide a **draft to the newsletter editor by the 25th of the month**. Change of contact information requests should be made to SPE in Richardson, TX, 1-800-456-6863, or [service@spe.org](mailto:service@spe.org).

# Chairman's Gavel

Lisa Sullivan, 2019-2020 Chairman

Halloween has come and gone, now we are all looking forward to that great food holiday, Thanksgiving, where we all eat too much and fall asleep watching football (surely this is not just me!) One of my friend's counted over 400 little trick-or-treaters! A person could go broke on candy at that rate!! Our home was very quiet this year, our only trickster was our dog, who dressed up like a UPS man. But I digress, SPE has been active this fall.

October 4 was our Sporting Clays event, which was a spectacular success. A more beautiful day could not have been had, and I believe, we had a record turnout. Thank you, to Charley Mathis, and all the volunteers, who organized this event. October 23, we had a luncheon meeting with speaker, Ford Brett, from PetroSkills, with the topic of how important our human skills and experience are for the oil and gas industry. This is something that is not often thought of as an "asset". Very good discussion.

For November, we are honored to have distinguished lecturer John Kaldi, from the Australian School of Petroleum, University of Adelaide, present at our SPE Luncheon, titled "Integrated Approaches to Determining Net Pay: Caveat and Lessons Learned". Please note, that for this event, we are asking that everyone register online, please no walk-ins for this event. We are looking forward to this presentation.

Happy Thanksgiving to all,

Lisa Sullivan  
2019-2020 Chairman  
[lsullivan6311@gmail.com](mailto:lsullivan6311@gmail.com)



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# From Your Editor

Betty Felber, 2019-2020 Editor

The busy times are upon us with Thanksgiving this month and Christmas to follow very soon. Our November program offers you much to apply in your operations so take time to come to our luncheon with head liner Distinguished Lecturer John Kaldi. He coming all the way from Australia.

Hope to see you at our November meeting.

Betty Felber  
Editor



## PetroWiki

PetroWiki is a free resource from SPE to answer many basic petroleum engineering and operational questions. SPE professional members can contribute their expertise through updating or adding to PetroWiki content.

<http://petrowiki.org/PetroWiki>

## Calendar of Events

### Tuesday, November 12, 2019 - Luncheon Meeting - Summit Club

- John Kaldi, Australian School of Petroleum, University of Adelaide | Distinguished Lecturer | "Integrated Approaches to Determining Net Pay: Caveat and Lessons Learned"

### Thursday, December 12, 2019 - Luncheon Meeting - SAVE THE DATE

- Jim Williams, NitroLift, "Nano-Technology"

*All SPE luncheons are held at the Summit Club unless otherwise noted - See p7 for more details.*



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### NOVEMBER 2019

**TUESDAY, November 12, 2019** - Luncheon Meeting

**Location:** Summit Club, 30th Floor, Ballroom

**Speaker:** John Kaldi, Australian School of Petroleum, University of Adelaide | Distinguished Lecturer |

**Topic:** “Integrated Approaches to Determining Net Pay: Caveat and Lessons Learned”

**Register:** <https://spemc111219.eventbrite.com>.

#### Description

Net pay is the formation thickness within the hydrocarbon column that can be produced economically. The most common methods for determining net pay include wireline log cut-offs eg gamma ray (sand vs shale percentage), resistivity (hydrocarbon vs water saturation) and porosity (rock vs pore volume). This presentation details case histories from around the world that highlight various challenges with relying on many of these methodologies. Overly simplistic assumptions of wireline log response, and poor understanding of fundamental rock and fluid properties in the formation, have caused misinterpretation of pay in many formations. Examples include incorrect v-shale cut-offs due to shale clasts, incorrect density porosity calculations caused by extreme mineral densities, incorrect neutron porosity cut-offs due to microporous reservoirs, and misinterpreted fluid compositions (on resistivity logs) due to conductive minerals in the formation. Potential errors in quantifying reservoir properties may occur even when core data are plentiful. This is commonly due to core plug sampling bias, either from poor core and/or core plug recovery or due to human sampling bias; both biases result in over or under representation of particular rock types. Often, production mechanism and net pay interpretation are not considered together. Pay on primary production, may not equate to pay on waterflood, if the flooded formation is discontinuous or sweep efficiency is low. In addition, production or injection zone tests (eg PLT), are rarely correlated to rock types in a formation, thus leading to mismatch between actual and interpreted pay zones. Net pay determination is improved markedly when petrophysical properties are linked to field-specific production mechanisms.

#### Speaker

##### John Kaldi

John Kaldi is a Professor of Petroleum Geology and Engineering at the Australian School of Petroleum, University of Adelaide, Australia, and holds the South Australia State Chair in Carbon Capture & Storage (CCS). He is also an Adjunct Professor at

SPE Mid-Continent luncheon meetings are held at the Summit Club\*\* in Tulsa from 11:20-1:00 p.m. unless otherwise noted. To register and pay by credit card, or make a reservation to pay by check or cash at the door, go to the corresponding link for a luncheon. Luncheon cost is \$25.00 professional, \$10 retired/unemployed, and free for students. Payment by credit card is for advanced registrations ONLY, no credit cards will be accepted at the meeting, only check or cash with a reservation. Registration ends 48 hours prior to the luncheon date. No walk-ins please.

\*\*Summit Club | Bank of America Center, 15 West Sixth Street (NE corner of 6th & Boulder) | Tulsa, OK 74119 | 918.582.5243 | Parking details are available at [www.summittulsa.com/club/parking](http://www.summittulsa.com/club/parking).

Institut Teknologi Bandung (ITB), Indonesia, and a Visiting Professor at Universiti Teknologi Petronas (UTP) in Malaysia. John received his Bachelors and Master's degrees in geology from Queens College, City University of New York, and a PhD in Geology from Cambridge University in the UK. His career includes 18 years in the Petroleum Industry in both technical and managerial roles with Shell, Arco & Vico. John served as Distinguished Lecturer for several professional organisations, including SPE, American Association of Petroleum Geologists (AAPG), the Indonesian Petroleum Association (IPA) and the Petroleum Exploration Association of Australia (PESA). He has been the author of over 150 journal articles and technical conference papers.

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— Will Rogers

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