

SPWLA Houston Chapter Newsletter

We hope everyone engages and participates in our exciting 2021 events!

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Meet our Sponsors



Upcoming Events

Virtual Seminar: March 10, 2021

Determining Water-Filled Porosity of Tight Oil Reservoirs with a New Interpretation Method for Dielectric Dispersion Measurements, by Nikita Seleznev

Online Hiring Event: April 7, 2021

8th Semi-Annual Upstream Oil and Gas Professionals Hiring Event, by SPE-GCS

Stay tuned!

President's Corner

Dear members of the Houston Chapter,

First, I would like to announce that our website has been completely revamped. It went live in January 2021. Among the main changes, we included new features that will allow us to have a better interaction with our members and manage the chapter. I'd also like to invite you to check out some of the webinars available in our video gallery. Please **register in our new website**, you will receive notifications of upcoming events and chapter news. There are also several interesting **sponsorship opportunities**, please contact us in case you are interested. We are open for new speakers in our seminars, we like to bring other guests in addition to our SPWLA DS guests, especially if the topic is of interest for our audience. Contact any board members or myself in case you have a presentation you want to share.

On behalf of our SPWLA Houston Chapter board I am pleased to share that we are supporting the 8th Semi-Annual Upstream Oil and Gas Professionals Hiring Event in collaboration with SPE. The event details have been already posted in our website. These types of events add a great value to our members, especially during these times and we should not only support them but also support each other as professional societies to get the most value out of them for our membership.

Finally, I would like to invite you to attend our virtual seminar in March 10. We are hosting the SPWLA Distinguished Speaker 2020-2021 Nikita Seleznev, who will be discussing the interpretation of the dielectric dispersion measurements in tight oil formations

Please stay tuned and check it out for upcoming news! As always feel free to contact me if you have any questions or comments at president@spwla-houston.org.

Kind regards,
Javier Miranda



Javier Miranda
Houston Chapter President
president@spwla-houston.org

Useful links

**Sign up for the
Houston Chapter
Mailing List**
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Upcoming Virtual Seminar

DETERMINING WATER-FILLED POROSITY OF TIGHT OIL RESERVOIRS WITH A NEW INTERPRETATION METHOD FOR DIELECTRIC DISPERSION MEASUREMENTS

Date : Wednesday, March 10, 2021
Time : 12:00 pm – 1:00 pm (US CDT)
Admission : Free registration using the link below
<https://attendee.gotowebinar.com/register/5548739718413686543>
Contact : Javier Miranda (SPWLA Houston Chapter President)
Corresponding president@spwla-houston.org



BIOGRAPHY - SPWLA Distinguished Speaker 2020-21

Nikita Seleznev received his PhD in Petrophysics from the Delft University of Technology in The Netherlands. He joined Schlumberger-Doll Research in 2000 and held various positions, including Petrophysics Program Manager and Principal Scientist. During his tenure, Nikita conducted research and led R&D projects on various aspects of petrophysics, including nuclear spectroscopy, petrophysical evaluation systems, and dielectric as well as resistivity logging tools and techniques. Additionally, he studied applications of the induced polarization measurements for formation evaluation and a joint interpretation of the electromagnetic measurements across a wide frequency band. He has published more than 30 papers and holds 9 US patents. Nikita served as an SPWLA Technology Committee member from 2017-2019.

ABSTRACT

Tight oil reservoirs present a unique opportunity for dielectric dispersion logging. Dielectric logging is sensitive to the water content and provides water-filled porosity without having to know Archie's empirical parameters or water salinities, as is required with resistivity log interpretation. Moreover, because of the extremely low permeability of the shale reservoirs, there is effectively no invasion of the borehole fluids into the formation. Thus, in these reservoirs, dielectric dispersion logging directly provides the water-filled porosity of the undisturbed zone.

In this paper, we investigate the interpretation of the dielectric dispersion measurements in tight oil formations. A representative core collection was obtained from two intervals in a field. The core material was characterized in terms of lithology and total organic carbon (TOC) content. The cores were cleaned and saturated with brines that match the formation water salinities. Next, the dielectric dispersion measurements on cores were obtained under controlled laboratory conditions of pressure, temperature, and brine salinity.

On the basis of the analysis we conducted on these data, we have developed a new method for the interpretation of multifrequency dielectric logs in tight oil reservoirs. The new method has a significant advantage over the existing approaches because it does not require an input for either matrix or hydrocarbon permittivities, including kerogen permittivity, to derive water-filled porosity as is the case with the existing approaches. The new method enables the elimination of all associated uncertainties with formation mineral models in complex lithologies, unknown mineral permittivity endpoints, and, most importantly, the poorly defined permittivity of kerogen. The new method requires only the relatively well-known input of formation temperature. Thus, the new method provides a more robust, streamlined, and consistent interpretation of the dielectric dispersion logs in tight oil and reduces the uncertainty on the estimate of hydrocarbon in place.

8th Semi-Annual Upstream Oil and Gas Professionals Hiring Event

The SPWLA Houston Chapter is supporting the 8th semi-annual Upstream Oil and Gas Professionals Hiring Event for professionals of energy and upstream oil & gas disciplines, which is organized by the SPE-GCS. Consequently, SPWLA Houston Chapter current professional members are entitled to participate as job seekers. **The Hiring Event will be held online and will take place on April 7, 2021.** The Hiring Event is one of the most remarkable happenings that bring together experienced & talented professionals with employers and recruiters from various sectors “virtually under one roof”, thereby serving as the platform for open and vast-ranging employment opportunities.

The organizing committee will be partnering with Texas Workforce Solutions and over 30 other professional organizations to make this event inclusive and representative of the industry segment. Registration is currently open for Employers, Sponsors, and Government Agencies. **For the first time ever, the Hiring Event will be free for both employers and job seekers.**

For more information about the event, location, time, registration, participants, visit our website:

<https://www.spwla-houston.org/>



**SPE-GCS SPRING 2021
HIRING EVENT**

April 7, 2021
<https://www.spegcs.org/hiring-event/>

SPE International
Gulf Coast Section

Workforce Solutions
<https://www.wrksolutions.com/>

@spehiringevent **@spe-gcs hiring event** **@SPEHiringEvent**

A virtual event for Energy Professionals in partnership with Texas Workforce Solutions

**Energy Professionals FREE Virtual
Hiring Event**

Event, candidates must:

- . Be an active member of either SPE or any of the collaborating professional organizations
- . Have previous full-time position in support of an energy and/or upstream discipline

The New Face of the SPWLA Houston Chapter



<https://www.spwla-houston.org/>

We hope you like our new website that went live in January 2021. The website has been completely revamped to facilitate the interaction with and among chapter members. Furthermore, we would also like to invite you to check out some of the webinars available in our video gallery.

VIDEO GALLERY

THE SKEPTICAL PETROPHYSICIST WEBINAR

SPWLA HOUSTON CHAPTER VIRTUAL L&L ON JUNE 17TH WITH ALBERTO ORTIZ

SPWLA HOUSTON CHAPTER VIRTUAL L&L OCT/20: RESERVOIR INTEGRITY-UNDERSTANDING FLOW BEYOND THE WELLBORE

We invite you to register in our website to receive notification of our events and chapter news.

There are also several interesting sponsorship opportunities such as web banner, single meeting sponsorship, email promotion opportunities, among others. Please contact us in case you are interested.