

SPWLA Houston Chapter Newsletter

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

SPWLA Board for 2020 – 2021



Javier Miranda
PRESIDENT

president@spwla-houston.org



Jeff Crawford
VICE-PRESIDENT NORTH SIDE

vpnorthside@spwla-houston.org



Hyungjoo Lee
VICE-PRESIDENT DOWNTOWN

vpdowntown@spwla-houston.org



Bernd Ruehlicke
VICE-PRESIDENT WESTSIDE

vpwestside@spwla-houston.org



Ronke Olutola
TREASURER

treasurer@spwla-houston.org



Hans Wong
SECRETARY

secretary@spwla-houston.org



Artur Posenato Garcia
EDITOR

editor@spwla-houston.org



Tianmin Jiang
WEBMASTER

webmaster@spwla-houston.org

Meet our Sponsors



Upcoming Events

Lunch Seminar: September 15th, 2021, 11:30AM–1:00PM

Integrated Rock and Fluid Characterization Workflow, by Stephanie Perry and Alex Zumberge (GeoMark).

Location

Sage Plaza Lobby Conference Room

5151 San Felipe St, Suite 950

Houston, Texas 77056

2021 SPWLA Networking Happy Hour at King's BierHaus on September 16, 6:00–9:00PM. The entire SPWLA community is invited, no need to RSVP, come at your own leisure, no payment required.

Lunch Seminar: October 13th, 2021, 11:30AM–1:00PM

The History of Oil in the Middle East, by Ken Henry (Independent Consultant).

Location

TBD

More details available soon in the Houston Chapter's website.

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

Stay tuned!

Don't miss our next event!

Join us for our next event during the beginning of fall season with our **3rd 2021 SPWLA Networking Happy Hour at King's BierHaus on September 16, 6:00–9:00 PM.** The entire SPWLA community is invited, no need to RSVP, come at your own leisure, no payment required. Come and mingle with fellow petrophysics enthusiasts! Please follow CDC recommendations regarding social events, this will be an outdoor activity so be prepared for Houston September weather (unpredictable!!!).

Everybody is welcome!

When: 6–9 PM Thursday September 16, 2021

Where: King's BierHaus, 2044 E T C Jester Blvd, Houston, TX 77008



President's Corner

Dear members of the Houston Chapter,

Our SPWLA Houston Chapter recently organized a special happy hour event during the Unconventional Resources Technology Conference (URTeC) held in Houston, Texas in July. This was the first in-person conference in more than a year after the Covid pandemic restricted such gatherings.

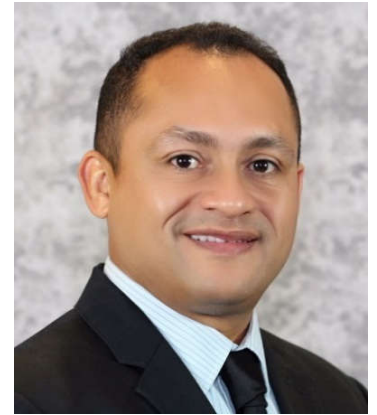
The event was co-sponsored by SPWLA International and SPWLA Houston Chapter with a great attendance from local members as well as those visiting Houston for the conference. With vaccinations now fully available for everyone in the United States, we are once again promoting in-person events, so that everyone can engage in fruitful interactions with fellow professionals in our industry, in addition to our online seminars. In addition, it is always recommended to follow CDC's guidelines and pay attention to trends and any announcement that might restrict such activities.

As we resume in-person events, our Fall season will be open by a lunch seminar on September 15th. We are hosting Stephanie Perry, Chief Petrophysical Advisor at GeoMark Research, who will share her expertise on reservoir characterization using an integrated rock and fluid approach. Furthermore, we would also like to invite you for a lunch seminar in October about the history of oil in the Middle East and the geology of the Arab basin. This will be presented by Ken Henry on October 13th. On the other hand, we would like to express our gratitude to Faye Liu for presenting her work during our June seminar to close the 2020–2021 season in a high note providing valuable insights on geochemical applications in reservoir characterization. The pandemic proved to be challenging and it continues present in some countries more than others. Nonetheless, it also gave us the opportunity to reach members out of our chapter who have become regulars attending our webinars during 2020 and in the first half of 2021.

If you would like to receive notifications of upcoming events and chapter news, please, go ahead and register in the new SPWLA Houston Chapter website even if you were registered in previous years as we cleaned up our database to remove spam emails.. Additionally, there are multiple interesting sponsorship opportunities and job postings announced there. Please, reach out to us in case you are interested or if you would like to receive additional information. As always, we are open for new speakers in our seminars and we are looking forward to bringing other guests in addition to our SPWLA DS, if the topic is of interest to the petrophysics audience. Contact any board members in case you have a presentation you would like to share.

Please stay tuned and check it out for upcoming news! As always, feel free to contact any of the board members if you have any questions or comments using our contacts included below.

Kind regards,
Javier Miranda



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

Useful links

**Sign up for the
Houston Chapter
Mailing List**
[\[Link\]](#)

[Houston Chapter](#)

[SPWLA International](#)

[Join SPWLA – become a
member](#)

[Houston Chapter
LinkedIn page](#)

Upcoming Seminar

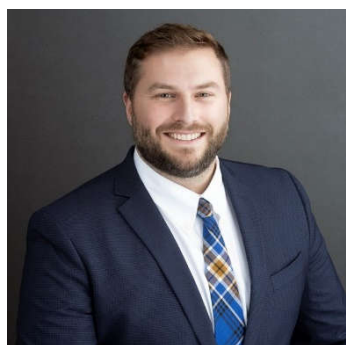
INTEGRATED ROCK AND FLUID CHARACTERIZATION WORKFLOW

Date : Wednesday, September 15, 2021
Time : 11:30 am – 1:00 pm (US CDT)
Admission : \$15 registration including lunch via the Houston Chapter website
<https://www.spwla-houston.org/>
Contact : Javier Miranda (SPWLA Houston Chapter President)
Corresponding : president@spwla-houston.org
Location : Sage Plaza Lobby Conference Room
 5151 San Felipe St
 Houston, Texas 77056

BIOGRAPHIES



Stephanie Perry is originally from upstate New York. She completed a dual BSc in Geology and Psychology in 2004 at Union College, Schenectady, New York; an MSc in Earth Sciences at SUNY Albany, New York, in 2006; and PhD in Geology at Syracuse University in 2014. Stephanie has worked in the oil and gas industry for >11 years in exploration, development and production. She has worked onshore and offshore opportunities spanning roles from a geologist to a geophysicist to specialization in petrophysics. She formerly worked with operators including ExxonMobil and Anadarko Petroleum Corporation. She currently works for GeoMark Research Inc. as the chief petrophysical advisor.



Alex Zumberge has extensive lab experience in oil and rock extract analyses with emphasis on correlation tools like bulk organic properties, lipid biomarkers and carbon isotopes. He has over nine years' experience in a lab environment doing experiments himself as well as overseeing general sample/project flow through each analysis phase. Alex recently finished his PhD in Organic Geochemistry at the University of California – Riverside where he specialized on sterane/hopane relationships through time from the Precambrian to the present. Additionally, Alex has experience with traditional analytical techniques (LC, GC, GC-MS, GC-MS/MS) as well as new analytical approaches that allow access to the kerogen-bound biomarker pool within rock extracts via Hydrogen Pyrolysis, HyPy. Currently,

Alex is Executive Vice President of Operations at GeoMark Research and manages oil technical service projects as well as the new TruSat rock lab.

ABSTRACT

Subsurface scientists are often focused on the understanding and modelling of quantitative solutions derived from laboratory-based measurements that are then utilized to constrain the in-situ rock and fluid properties. From these constraints to then predict the hydrocarbon production performance for a given stratigraphic play opportunity. Making the leap between the laboratory-based measurements to the subsurface and wellhead requires quantification of fluids lost from the bulk volume to better represent

accurate fluid-filled storage volumes. In a Delaware basin case study, geochemical, geological, petrophysical and engineering-based tools are implemented in a combined workflow to present an integrated approach to volumetric assessment. Through a defined combination of rock and fluid property measurements, we share a workflow that allows the link between laboratory-based properties to be better understood and integrated with wellhead fluid property results. Therefore, allowing us to physically correct the bulk volume water and hydrocarbon results and demonstrate the impact to a wireline calibrated model. The workflow also allows the identification of the fluid phase loss across the environments to better understand the inherent mobility or lack of mobility of a given rock sample with the fluid contained within it. Expanding our ability, through the integrated rock and fluid approach, to measure, understand, correct, and adjust our perspective and interpretation of the water versus hydrocarbon filled volumetrics leads to impact in business decisions across the exploration to production lifecycle. The workflow is applicable in both the unconventional and conventional applications of play type definitions and allows the link amongst the geoscientific disciplines to be demonstrated in the case study example.

Summary of 9th Semi-Annual Upstream Oil and Gas Professionals Hiring Event

The SPWLA Houston Chapter is supporting the 9th 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. As a result, SPWLA Houston Chapter current professional members are entitled to participate as job seekers. 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. **It will take place on October 12th 2021.**

The SPWLA Houston Chapter will be partnering again with the SPE-GCS and the Texas Workforce Solutions and over 40 other professional organizations to make this event inclusive and representative of the industry segment. The virtual platform provided by Texas Workforce Solutions will continue to be used, but **there will also be a face-to-face component this fall at the Steve Radack Community Center**, resulting in a hybrid event.

For more information about the event and participants, visit our website:

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

Workforce Solutions

SPE
International
Gulf Coast Section

**SPE-GCS
FALL 2021
Hiring Event**

We invite you to attend this hybrid event for Traditional and Renewable Energy Professionals in partnership with Texas Workforce Solutions

**OCTOBER 12, 2021
STEVE RADACK COMMUNITY CENTER**

WWW.SPEGCS.ORG/HIRING-EVENT/
#SPEGCSHiringEVENT

@SPEHIRINGEVENT
@SPEHIRINGEVENT
@SPE-GCS HIRING EVENT

Installation by SKYFIREENERGY.COM

**SPE-GCS Hiring Event
SEEKING VOLUNTEERS**

SPE
International
Gulf Coast Section

A hybrid event for
Traditional and Renewable
Energy Professionals

#SPEGCSHiringEVENT

@spehiringevent @spe-gcs hiring event @SPEHiringEvent

**The SPE-GCS MiT Planning Committee,
and our industry needs your help!**

**Weekly Meetings Mondays 0900-1200 CDT,
June through October 2021**

<https://www.SPEGCS.org/EVENTS/6075>

Recent Events

SPWLA Special URTeC Happy Hour

Members of the SPWLA community in Houston and other chapters visiting Houston for the URTeC gathered during this event to celebrate the first in-person geosciences conference and restart face to face social activities after a hiatus of more than a year during the Covid pandemic.

Several members visiting Houston or also gathered in the George R. Brown convention center attended this social activity. The event was organized by SPWLA International and SPWLA Houston Chapter. Members were motivated for networking, meeting new colleagues, reconnecting with known ones, or talking in a relaxed atmosphere with other members after a day of presentations at the unconventional conference. Attendees also had the opportunity to meet and talk with SPWLA international and Houston chapter board members after a challenging year.

A significant group of members gathered to enjoy a beautiful evening with drinks and food onboard in a well-known and conveniently located venue across the conference center. Members of all ages, background and experience had the opportunity to socialize while talking about technical or anecdotic events related to Petrophysics and the ongoing URTeC. Attendees enjoyed it a lot and recommended to continue organizing this type of activities. SPWLA International President and two VPs were in attendance in addition to two former SPWLA Presidents, and some speakers in the URTeC. Houston Chapter President also attended this event.

Food and drinks were sponsored by SPWLA International and SPWLA Houston Chapter represented by **Katerina Yared** and **Javier Miranda**, presidents of these organizations respectively.



Attendees to SPWLA Special URTeC Happy Hour at The Rustic in Houston downtown, among them, current SPWLA International President Katerina Yared, VPs of Education and Social Media Siska Goenawan and Mathilde Luycx respectively, former SPWLA International Presidents Jesus Salazar (2019–2020) and Luis Quintero (2016–2017), and SPWLA Houston Chapter President Javier Miranda, July 2021.



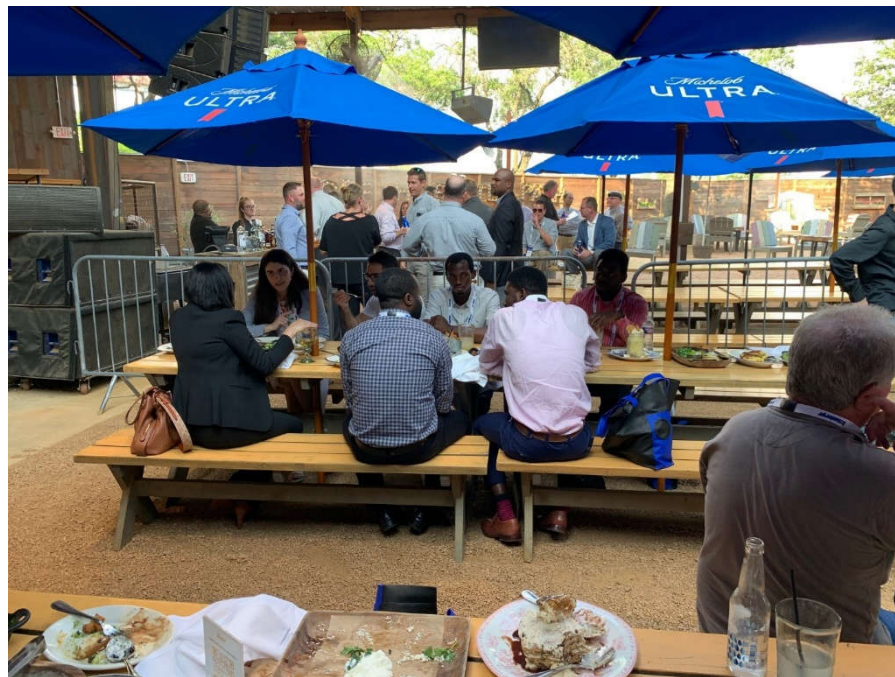
SPWLA's International and SPWLA Houston Chapter Special Happy Hour during Unconventional Resources Technology Conference (URTeC) held in Houston, Texas recently. Several international and local SPWLA officers joined Katerina Yared, SPWLA President 2021–2022 to organize and host this event. Couple past SPWLA International presidents were also in attendance as well as student members.



SPWLA Houston Chapter networking event organized as part of URTeC 2021, July 2021.



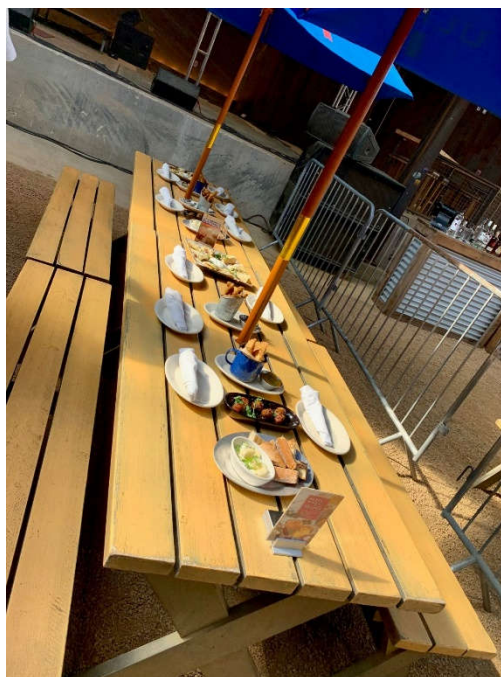
SPWLA International President Katerina Yared and SPWLA Houston Chapter President Javier Miranda (first from right to left next to Katerina) hosted this URTeC Special Happy Hour in Houston downtown.



SPWLA student members from University of Houston as well as other chapters visiting Houston joined us for this networking event.



SPWLA past president Jesus Salazar (2019–2020) and former University of Houston student chapter president Charles Adams enjoyed a great networking event in a relaxed atmosphere with several members including other current and past international and local officers of the SPWLA board in attendance.



A sunny evening with food and drinks co-sponsored by SPWLA International and Houston Chapter in a convenient location across the George R. Brown convention center was perfect for members to enjoy a great networking event.

SPWLA Houston Chapter June virtual seminar



SPWLA Houston Chapter recently organized a virtual seminar with **Faye Liu** titled “*Unconventional Reservoir Characterization and Drainage Frac Monitoring Using Geochemical Fingerprinting Technology*” on **June 16th**. This seminar was well attended we had a very dynamic Q&A session where Faye expanded on the topic and addressed all the questions and comments from the audience. We thank you Faye for volunteering to present her work to our chapter members and others from overseas who were interested in the topic.

SPWLA Houston Chapter April virtual seminar

SPWLA Houston Chapter recently organized a virtual seminar with SPWLA Distinguished Speaker (DS) **Jeffrey Miles** titled “*Formation Chlorine Measurement from Spectroscopy Enables Water Salinity Interpretation*” on **April 29th**. This seminar was well attended. We thank Jeffrey for presenting his work to our chapter members and others from overseas who were interested in the topic.

Summary

- New quantitative measurement: Formation chlorine from nuclear spectroscopy
- Validated in modeling, lab data, core-log comparisons
- Shallow DOI: 8 – 10 inches at 90%
 - Affected by invasion if present
- Applications to water salinity, water volume, Sigma
- Complements other measurements (Resistivity, Dielectric, Sigma, ...)

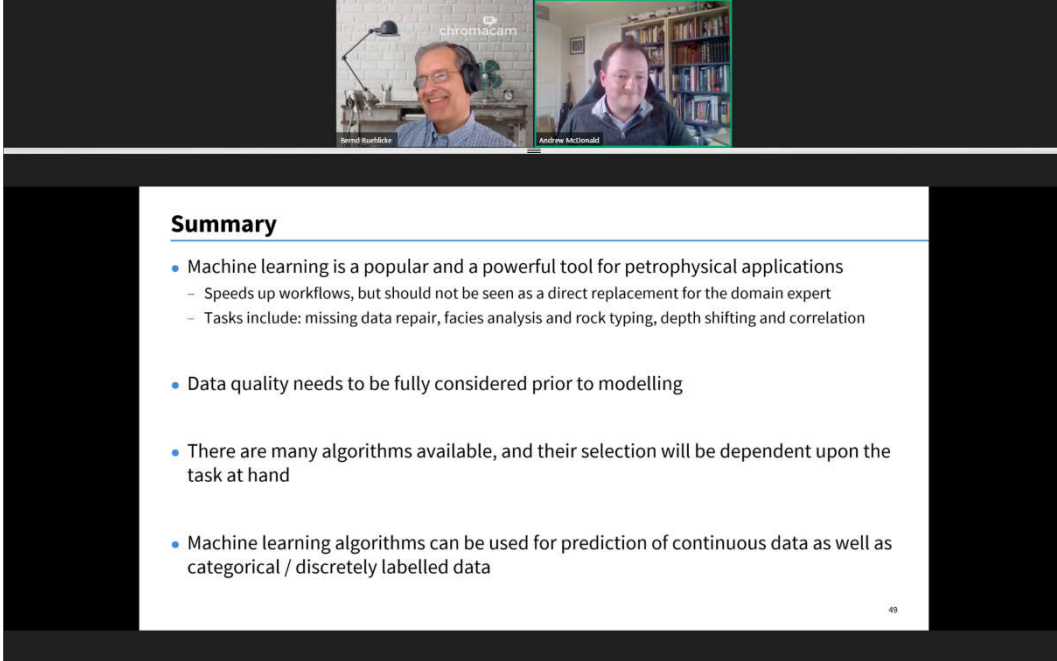
We gratefully acknowledge the operator companies for permission to use their data in the core-log comparisons.

35 SPWLA Distinguished Speaker Series 2020-2021

SPWLA DS Jeffrey Miles (right) and SPWLA Houston Chapter Vice-President Downtown Hyungjoo Lee (left) during our April webinar.

SPWLA Houston Chapter May virtual seminar

SPWLA Houston Chapter recently organized a virtual seminar with **Andrew McDonald**, based in UK, titled “*Introduction to Machine Learning and its Applications to Petrophysics*” on **May 26th**. We thank Andrew for sharing his expertise on a hot topic of growing interest to the petrophysics community. We had a very engaging Q&A session where Andrew provided additional insights on the topic.



Summary

- Machine learning is a popular and a powerful tool for petrophysical applications
 - Speeds up workflows, but should not be seen as a direct replacement for the domain expert
 - Tasks include: missing data repair, facies analysis and rock typing, depth shifting and correlation
- Data quality needs to be fully considered prior to modelling
- There are many algorithms available, and their selection will be dependent upon the task at hand
- Machine learning algorithms can be used for prediction of continuous data as well as categorical / discretely labelled data

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Andrew McDonald (right) and SPWLA Houston Chapter Vice-President West Side Bernd Ruehlicke (left) during our May webinar.

SPWLA Annual Symposium 2021 Networking Happy Hour

Members of the SPWLA community in Houston recently gathered during the closing of the Annual Symposium to celebrate and restart in-person social activities after a hiatus of one year and three months during the Covid pandemic. This happy hour was the appropriate motivation for networking, meeting new colleagues, reconnecting with known ones, or talking in a relaxed atmosphere with members of the SPWLA board or other SPWLA members after a challenging year. That was the main purpose during the most recent social event we had in a popular place in Houston, Texas. A significant group of members gathered to enjoy a beautiful evening with drinks and food onboard. **This event was co-sponsored by TGT Oil and SPWLA Houston Chapter.** Members of all ages, background and experience had the opportunity to socialize while talking about technical or anecdotic events related to Petrophysics and recently finalized symposium. It was a very informal event, but attendees enjoyed it a lot and recommended to continue organizing this type of activities. Even past international board members joined us for a great gathering. Four former SPWLA Presidents were in attendance and some speakers in the symposium also attended. Members of the Houston Chapter board also attended this event.

Food and drinks were sponsored by **TGT Oil** and SPWLA Houston Chapter represented by Julian Martin (Business Development Manager) and Houston Chapter board members respectively.





Attendees to SPWLA Houston Chapter's Happy Hour at McCormick & Schmick's, among them, former SPWLA Presidents Jesus Salazar (2019-2020) and Zhipeng Liu (2018-2019), May 2021.



SPWLA's Houston Chapter first Happy Hour in a while. From left to right: Julian Martin (Business Development Manager at TGT Oil), Gabriela Singer (SPWLA 2021 Symposium speaker at Halliburton), Gary Simpson (Independent Consultant) and Javier Miranda (Senior Petrophysicist at DeGolyer and MacNaughton and SPWLA Houston Chapter President), May 2021.



SPWLA Houston Chapter networking event organized as part of annual symposium local activities. From left to right: Julian Martin (Business Development Manager at TGT Oil), Ivan Pinzon (Senior Petrophysicist at Ecopetrol America), Luis Quintero (SPWLA President, 2016-2017 and Chief Advisor at Halliburton) and Pouya Mahbod (VP Global Business Development at Core Laboratories), May 2021.



SPWLA's Happy Hour after closing of 2021 Annual Symposium.



SPWLA Houston Chapter networking event. From right to left: Zhipeng Liu (SPWLA President, 2018-2019), Randy Cooper (SPWLA President, 2011-2012) and Oswaldo Vilorio (Independent Consultant), May 2021.



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SPWLA members enjoyed a great networking event in a relaxed atmosphere with current and past international and local officers of the SPWLA board in attendance.



A significant group of members gathered to enjoy a beautiful evening with drinks and food onboard. This event was co-sponsored by TGT Oil and SPWLA Houston Chapter.

Supporting Student Chapters of SPWLA

The Houston Chapter is proud to continuously provide financial support to regional Student Chapters of SPWLA. The student chapters are an important component of our society as they organize a significant number of technical events to highlight and disseminate petrophysics and formation evaluation knowledge among students, academics, and local professionals. We recently provided financial help to support another chapter in Texas with its student paper contest, monthly seminars and other activities.

The latest recipient is the chapter at:

