

SPWLA Houston Chapter Newsletter

SPWLA Board for 2020 – 2022



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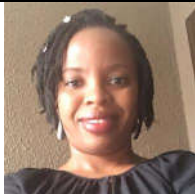
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Meet our Sponsors



President's Corner

Dear members of the Houston Chapter,

The Houston Chapter of SPWLA continues to organize and support many interesting and fun activities to its members. We recently organized three technical seminars with **Igor Kuraev** (ROGII), the 2014-2015 SPWLA President **David Kennedy** (QED Petrophysics LLC.) and the 2021-2022 SPWLA Global Distinguished Speaker **Haijing Wang**. We would like to sincerely thank the speakers for their great talks. Additionally, the Houston Chapter of SPWLA supported the Charity Golf Tournament that was organized by Geolog. The event was fun, and it was a great opportunity to meet professionals in a healthy and slightly competitive environment.

Furthermore, we would like to thank all the attendees and participants for making these events successful and Q&A sessions lively and dynamic. We work diligently to bring the best speakers for you and we are looking forward to seeing you again in our upcoming events and activities. [A huge thanks to ROGII and Geolog International for sponsoring our seminars and providing great venues.](#)

SPWLA Houston successfully organized its board elections. We would like to congratulate the newly elected 2022-2024 board members and to thank and honor our outgoing board members. The Houston Chapter of SPWLA has planned many interesting events for the incoming cycle. On June 23rd we will be hosting a virtual seminar titled "Bridging the Gap Between Reservoir and Sample; Reducing Asset Development Risk by Using Down-Hole Mercury Trapping and Non-Reactive Sampler for Trace Component Sampling" presented by **Bjørn Dybdahl** (Expro). We would like to invite you to attend our last in-person social networking event of with the current chapter board and the first with the upcoming board. [This networking event will take place on July 14th \(5h30PM to 8h30PM\) at the King's BierHaus \(2044 E T C Jester Blvd Houston, TX 77008\).](#)

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 and follow us on LinkedIn. 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 our VPs or myself 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 above.

Finally, I want to thank our Houston membership for all the support during these last two years. I encourage you to continue participating in our activities and support Bernd and his new team. I wish you the best to them and will be around for anything including the SPWLA 2023 organization!

Warm 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 Seminars

BRIDGING THE GAP BETWEEN RESERVOIR AND SAMPLE; REDUCING ASSET DEVELOPMENT RISK BY USING DOWN-HOLE MERCURY TRAPPING AND NON-REACTIVE SAMPLER FOR TRACE COMPONENT SAMPLING

Date : Thursday, June 23, 2022
Time : 12:00 pm – 1:00 pm (US CDT)
Location : Virtual
Contact : Artur Posenato Garcia (SPWLA Houston Chapter VP Downtown)
Corresponding : vpdowntown@spwla-houston.org

Online registration:

<https://register.gotowebinar.com/register/6965838693062593804>

BIOGRAPHY

Bjørn Dybdahl graduated from Horten College of Engineering in 1980 with a BSc in Technical management and administration. After graduation, he joined Stolt Comex International as a diving engineer for 12 months. In 1981 he returned to further his education at the University of Stavanger. In 1984 he graduated with a BSc in Petroleum Engineering. While studying at UiS, he worked as Field Engineer for OTIS, a Halliburton company. In 1983 he founded Petrotech International, in response to the increasing requirements from oil companies for more detailed and better-quality reservoir data, as well as the need to accurately characterize produced fluid. Bjørn is the Managing Director of the company. Petrotech's technology center in Norway is situated north of Haugesund. During his career in Petrotech, the company has established branch offices in Malaysia, Australia, the UK, the Netherlands, US, and United Arab Emirates. In 1999 Petrotech signed a global and exclusive alliance agreement with Halliburton Energy Services (HES) to perform sampling services. Power Well, a US-based company acquired Petrotech in 2005. In 2007 Power Well was acquired by Expro. He is still the Managing Director of Petrotech which is 100% Expro owned. He is also Global Sales Director in Expro. He is a member of SPE.

ABSTRACT

Accurate mercury and hydrogen sulfide measurements are essential for facilities design. Existing sampling methods are flawed in that they are not guaranteed to preserve the full quantity of reactive trace components present in a hydrocarbon sample. Subsequent incomplete measurements can have a significant cost and HSE impact. A novel down-hole sample capture and preservation of reactive components system are presented, enabling quicker definitive identification of risks to plant integrity, worker and environmental exposures, and sales value. A selection of materials and coatings were tested for their inertness in relation to mercury and hydrogen sulfide in various fluids (gas, oil, water, and multiphase). All materials also had to be suitable for use in anticipated down-hole conditions. The available literature was reviewed, and a mercury capturing system was designed and tested in various fluids. Once materials and designs were selected, prototypes were tested using certified calibration materials and samples spiked with known amounts of mercury. When constructed in a chamber free from lubricants, O-rings, and pistons, the selected material and coating combination was shown to result in minimal sulfur component loss over an extended period and sufficiently delay the loss of mercury to allow it to be captured at reservoir concentrations. Hydrogen sulfide concentrations were maintained in the

tools for an extended period, allowing the retrieval to the surface of bottom-hole samplers, resulting in surface concentrations representative of that down-hole. Mercury was successfully captured at down-hole conditions, preventing the impact of temperature and pressure changes at the surface. Once at the surface, the mercury can be quantified without any losses associated with traditional sample handling. Earlier identification of the presence of these species, along with accurate quantification, will aid facility design, such as whether removal facilities are required to meet sales specifications and prevent harm to workers and the environment through unconsidered emissions of toxic components during production. This paper presents a data collection process enhancing the quality of information essential for field development and maintenance planning and introduces a novel sampling approach capable of capturing representative down-hole samples for trace analysis of mercury and sulfur species without losses experienced using existing techniques. The tool can be used within traditional sampling systems.

SPWLA HOUSTON CHAPTER NETWORKING EVENT AND INTRODUCTION TO 2022-2024 LOCAL BOARD

Date : Thursday, July 14, 2022
Time : 5:30 pm – 8:00 pm (US CDT)
Location : King's BierHaus
2044 E T C Jester Blvd
Houston, TX 77008 GEOLOG Americas

The **Houston Chapter of SPWLA** would like to invite you to attend our last in-person social networking event with the current chapter board and the first with the incoming board. The entire SPWLA community is invited, no need to RSVP and come at your own leisure.

Come and mingle with fellow petrophysics enthusiasts. Our social events are well attended by petrophysicists, geologists, geophysicists, engineers and managers. We expect to have also current and past SPWLA international board members and well as recognized names in our industry!

We encourage you to follow CDC rules and self-check before attending. This will be an outdoor event so dress appropriately for Houston early July weather!

Recent Events

SPWLA Houston Chapter April Lunch Seminar

SPWLA Houston Chapter recently organized a lunch seminar with **Igor Kuvaev (ROGII)** titled “*Proactive Geosteering with Resistivity: Propagation, Deep and Ultra-Deep Tools, Case Studies From Offshore and Onshore Fields*” on **April 27th**. We would like to thank Scott for presenting his work to our chapter members and other attendees who were interested in the topic. Moreover, a huge thanks to **ROGII** for providing the venue and sponsoring this event.

SPWLA Houston Chapter May Lunch Seminar

The Houston Chapter of SPWLA would like to express its gratitude to the 2014-2015 SPWLA President **David Kennedy** (QED Petrophysics LLC.) for presenting his insightful work titled “*Generalizing the Geometrical Factor Theory*” on **May 11th**. This seminar was well attended, and we had a lively and very informative Q&A session.

SPWLA Houston Chapter June Lunch Seminar

SPWLA Houston Chapter recently organized a lunch seminar with the 2021-2022 SPWLA Global Distinguished Speaker **Haijing Wang** (Chevron) titled “*Improving Dielectric Interpretation By Calibrating Matrix Permittivity And Solving Dielectric Mixing Laws With A New Graphical Method*” on **June 9th**. This seminar was well attended by in-person and virtual participants. We would like to thank Haijing for presenting his work to our chapter members and others attendees who were interested in the topic. Moreover, a huge thanks to **Geolog International** for providing the venue and sponsoring this event.

Charity Golf Tournament

The Houston Chapter of SPWLA supported the Charity Golf Tournament that was organized by Geolog. This charity event took place on May 10th at the BlackHorse Golf Club. Proceeds were donated to Science Programs for School Districts in Houston and Metropolitan Areas. Participants had a joyful day at a beautiful location in a nice weather. Additionally, the SPWLA Houston Chapter donated prizes for door raffles.



2022-2024 SPWLA Houston Chapter Election Results

SPWLA Houston would like to congratulate newly elected 2022-2024 board members. We look forward to a great year ahead of us! The 2022-2024 board will be as follow:

President - Bernd Ruehlicke, Eriksfiord (Note: VP Westside of 2020-2022 board)

VP Downtown - Artur Posenato Garcia, Chevron (Note: Editor of 2020-2022 board)

VP Northside - Amer Hanif, Baker Hughes

VP Westside - Neal Cameron, GEOLOG International

Treasurer - Ronke Olutola, BHP (Note: Treasurer of 2020-2022 board)

Secretary - Hans Wong, Halliburton (Note: Secretary of 2020-2022 board)

Editor - QinShan "Shan" Yang, GOWell

Webmaster - Tianmin Jiang, ConocoPhillips (Note: Webmaster of 2020-2022 board)

SPWLA Houston also would like to take a moment to thank and honor our outgoing board members. You have made a difference through your dedication and continued support of SPWLA Houston activities.

President - Javier Miranda, DeGolyer and MacNaughton

VP Downtown - Hyungjoo Lee, Helmerich & Payne

VP Northside - Jeffrey Crawford, Halliburton

We hope to see y'all there next time!

More details available in the Houston Chapter's website

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

and the Houston Chapter LinkedIn profile

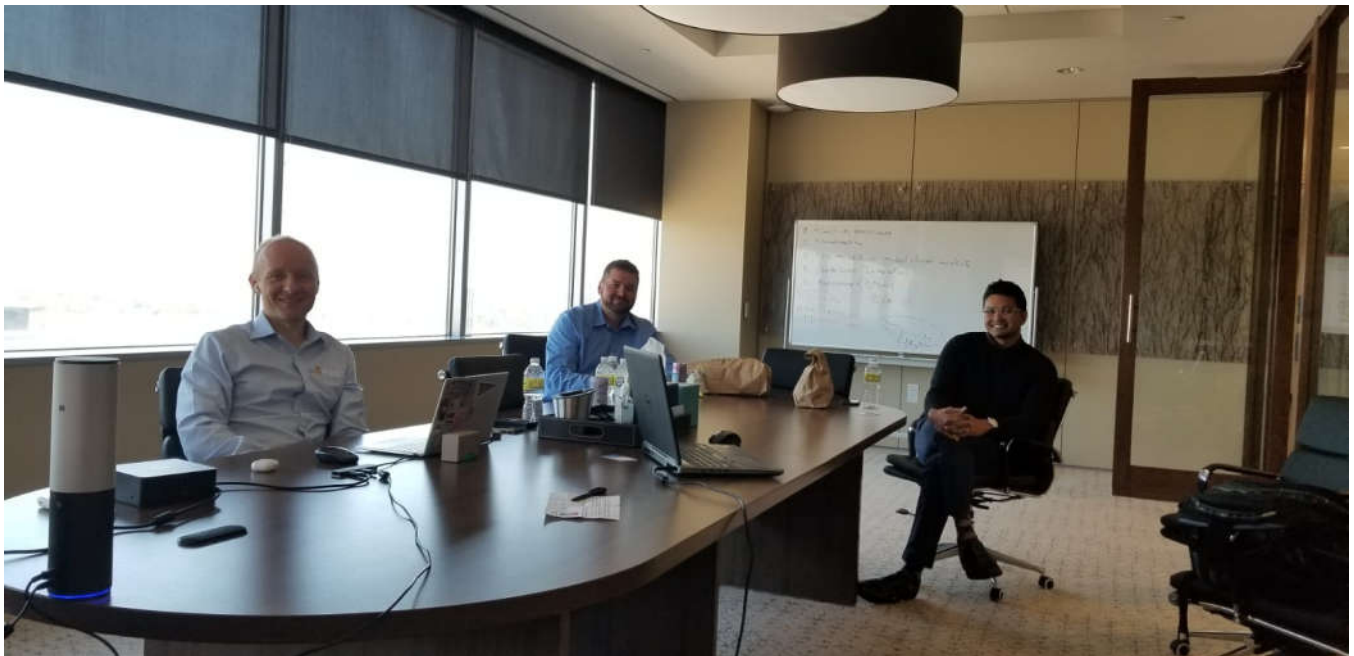
<https://www.linkedin.com/company/houston-chapter-of-spwla/>

Stay always tuned!

Photos



The incoming Houston Chapter of SPWLA President Bernd Ruehlicke thanking Igor Kuvaev (ROGII) for his great technical seminar.



Igor Kuvaev (ROGII) chatting with attendees after his technical seminar.



The President of the Houston Chapter of SPWLA Javier Miranda introducing our guest speaker, the 2014-2015 President of SPWLA, David Kennedy.



David Kennedy kicking off his very insightful technical talk by going through the first principles behind the conductivity of rocks.



The President of the Houston Chapter of SPWLA Javier Miranda shaking hands with our guest speaker, the 2014-2015 President of SPWLA, David Kennedy after a great talk.



The President of the Houston Chapter of SPWLA Javier Miranda delivering an appreciation gift to the speaker David Kennedy.



The Houston Chapter of SPWLA supported the Charity Golf Tournament that was organized by Geolog.



The President of the Houston Chapter of SPWLA Javier Miranda teaching some golf techniques to the 2018-2019 President of SPWLA Zhipeng "Z" Liu.



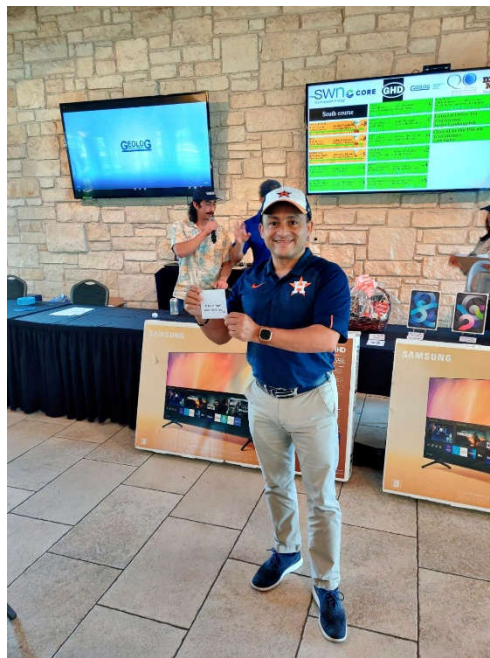
After a full day of fun activities, the attendees of the Charity Golf Tournament were pretty thirsty.



There were many awesome raffle prizes at the Charity Golf Tournament.



The 2018-2019 President of SPWLA Zhipeng "Z" Liu got himself a very nice BBQ cutting board.



The President of the Houston Chapter of SPWLA Javier Miranda might have gotten a ticket to the Astros game.



The 2021-2022 SPWLA Global Distinguished Speaker Haijing Wang (Chevron) giving a talk on interpretation of dielectric measurements.



The SPWLA Houston Chapter Vice-President Downtown Hyungjoo Lee delivering an appreciation gift to Haijing Wang for his superb talk.