

SPE Workshop: The Future of Well Integrity

11-12 November, 2025 | Van Der Valk Hotel Schiphol, Amsterdam, The Netherlands



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SPE - Well Integrity Workshop 2025 Feedback & messages

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SPE (WITS, P&ATS,
MEMTS)

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Content (agenda):

- A few words about SPE
- A few words about Technical Sections
- The 2025 Well Integrity Workshop
- My takeaways (workshop and beyond)



Disclaimers:

- I do not speak on behalf of SPE, or my current employer
- This presentation is only an expression of my own views
- On a lighter note, it was created independently by a human author and along with its subjectivity, it possesses at least some degree of creativity and I hope you'll find it interesting (happy to discuss at the break) 🤗

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What is SPE? (1)

SPE is the largest individual-member organization serving engineers, scientists, managers and other professionals in the upstream segment of the oil and gas industry.

Our Story

From our beginning as a committee within the American Institute of Mining Engineers (AIME) in the early 1900s, SPE has grown into an independent, nonprofit global society with 132,000 members in 146 countries. [Learn more about our history.](#)

SPE provides unparalleled insights, shared expertise, life-long learning and community strength to fuel the success of our members and the future of the industry.

SPE manages key industry resources including [OnePetro](#) along with [publishing](#) magazines, books and peer-reviewed journals. We host more than 100 conferences, workshops, and other [events](#) each year around the world.

Our [community](#) of members share knowledge, connect with others in their disciplines and local chapters and support and recognize member achievements in the industry. Our brands include:



Society of Petroleum Engineers

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What is SPE? (2)

Core Values

SPE is committed to:

Technical Excellence and Professionalism – committed to innovation, life-long learning, and the highest standards of professional conduct and expertise.

Member Focus – consistently provide accessible, relevant resources to help members thrive in the ever-evolving energy industry.

Global Scale and Local Relevance – leverage insights and resources to better serve member needs both globally and locally.

Collaboration – dedicated to knowledge dissemination and exchange to solve complex problems through internal and external networking and volunteer opportunities.

Diversity & Inclusion – a community that embraces diversity and inclusion as essential to the success of our industry and society.

Environmental and Social Stewardship – leadership to achieve a safe, secure, and sustainable energy future.

Our Mission

To connect a global community of engineers, scientists, and related energy professionals to exchange knowledge, innovate, and advance their technical and professional competence regarding the exploration, development, and production of oil and gas and related energy resources to achieve a safe, secure, and sustainable energy future.

Our Vision

SPE advances the oil and gas producing and related energy communities' ability to meet the world's energy needs in a safe, secure, and sustainable manner.

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Technical Sections (24)

A Technical Section is a group of SPE members worldwide who share a common interest in a specific technical topic. Members within these groups collaborate, exchange ideas, and work on projects related to their technical area of focus.

Technical Sections generally prioritize sharing knowledge and ideas through open discussions, webinars and events, with a goal-oriented approach. Through these sections, members can develop their skills and knowledge, promoting overall competence within the technical field.

Current Technical Sections

- | | |
|---|-----------------------------------|
| ➤ Artificial Lift | ➤ Hydrogen |
| ➤ Asset Management | ➤ Integrated Reservoir Management |
| ➤ Carbon Dioxide Capture, Utilization and Storage | ➤ Methane Emissions Management |
| ➤ Data Science and Engineering | ➤ Offshore Completions |
| ➤ Drilling Systems Advancement | ➤ Plug and Abandonment |
| ➤ Drilling Uncertainty Prediction | ➤ Research and Development |
| ➤ Flow Assurance | ➤ Robotics and Autonomous Systems |
| ➤ Flow Measurement | ➤ Separations Technology |
| ➤ Geomechanics | ➤ Sustainable Development |
| ➤ Geothermal | ➤ Water Life Cycle and Strategy |
| ➤ Human Factors | ➤ Wellbore Positioning |
| ➤ Hydraulic Fracturing | ➤ Well Integrity |

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The 2025 SPE Well Integrity Workshop:

- 141 delegates
- Excellent mix of operators, service companies, academia, regulators
- 8 plenary sessions (next slide)
- 1 bonus breakfast session on methane emissions (onshore and offshore)
- 1 extra session on survey results
- We did talk about elephants...



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2025 Well Integrity Workshop – Plenary Sessions:

1. AI and Well Integrity
2. Cement and Geology, the fundamental barriers - Do we understand them?
3. Well Integrity in CCS
4. Well Integrity Challenges during Decommissioning
5. Risk Assessment and Management (RA/QRA)
6. Well Lifetime Extension (in the context of aging infrastructures)
7. Best Practices and Pain Points in Well Integrity
8. Strengthening the Foundations - Well Integrity Resources, Training & Competence



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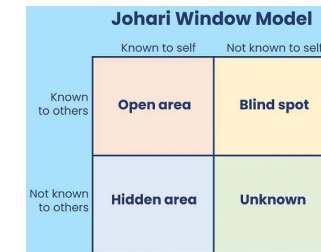
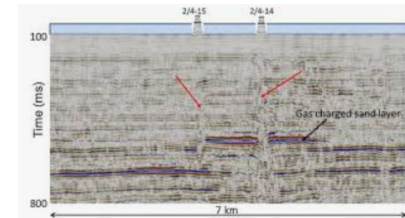
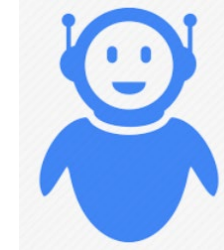
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Takeaways (1):

1. AI: data extraction (legacy data), BOT advisor (Risk Assess)
2. Cement and geology: always more to be learned (overburden, all rocks leak), log limitations, and... cement would be tough to qualify (growing criticality of shallow formations)
3. CCS: only starting, learning curve could be steep (Johari window), technically daunting (hydrogen too), contingencies
4. Wells decom: this will take all we have (and more); there will be surprises; underestimating flow behind casing (gas); biggest part of decom (highest costs / highest technical risks); growing everywhere



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Takeaways (2):

5. RA/QRA: living with risk, driving an old car? Quantitative models to the rescue for decision-making
6. Lifetime extension: data, models, careful monitoring... and beware of Black Swans
7. Best practices / pain points: stark contrasts depending on regulatory/cultural environment, celebrating best actors, challenges of the role, great crew change
8. Well Integrity Resources, Training & Competence – Very necessary, and yet missing... this is not a competitive space; younger staff will probably not be like us (STEM, Oil & Gas)



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Thank You

Questions?