



GENERAL INFORMATION



ACCESSIBILITY

Event facilities are accessible. Attendees requiring special arrangements should contact staff in advance.



CODE OF CONDUCT

Professional participation is expected. Please follow SPE policies and maintain respectful engagement.



COMMERCIALISM

In keeping with SPE event guidelines, presentations should remain non-commercial.



DOCUMENTATION

Released presentation materials and updates will be shared with attendees after the symposium when available.



ELECTRONIC DEVICES

Please silence devices during sessions as a courtesy to speakers and attendees.



PHOTOGRAPHY AND RECORDING POLICY

Unauthorized video/audio recording is prohibited. Attendance may imply consent to event photography for future SPE communications.



REGISTRATION

Use the official SPE registration page. Guests may register without SPE login.



CONTACT

sperdts@outlook.com

SPE Quantum Computing Symposium 2026

Roadmap and Use Cases in Oil & Gas Applications



Research and Development
Technical Section



14-15 MAY 2026



RICE UNIVERSITY
HOUSTON, TEXAS



IN-PERSON EVENT

Join industry, academia, and technology leaders for a two-day deep dive into how quantum computing can transform oil and gas. This symposium connects real industry computational challenges with emerging quantum capability, explores practical use cases, and maps the pathway from fundamentals to pilot-ready opportunities.

CORE FOCUS AREAS

- Intro to QC
- QC Technology Readiness
- Oil & Gas Challenges
- Collaboration & Best Practices
- Subsurface Modeling
- Reservoir Simulation
- Optimization
- Quantum Algorithms
- Digital Infrastructure
- Decarbonization

ORGANIZING COMMITTEE

YOGASHRI PRADHAN

Committee Chair
IronLady Energy Advisors
OPX AI

THOMAS HALSEY

Rice University

GAURAV AGRAWAL

SPE RDTS

STEVEN SAMOIL

SPE RDTS

CELIA MERZBACHER

QED-C

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Questions or
Sponsorship /
Collaboration
Ideas?

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Scan to register

Please include "SPE Quantum Computing Symposium 2026" in the subject line.

Symposium Agenda

 14–15 MAY 2026

 RICE UNIVERSITY

 HOUSTON, TEXAS


Research and Development
Technical Section

DAY 1 — Foundations, Landscape & Use-Case Discovery

Thursday, May 14, 2026

7:00–8:00 AM	Arrival	Registration & Check-In
8:00–8:20 AM	Opening	Welcome & Workshop Orientation Celia Merzbacher, Thomas Halsey, Gaurav Agrawal, Jeff Bailey
8:20–8:50 AM	Keynote	The Workings & Potential of Quantum Computing Hardware Chris Monroe (Duke and IonQ)
8:50–9:20 AM	Keynote	State of Quantum Software Martin Roetteler (IonQ)
9:20–10:20 AM	Panel	Panel Discussion & Q&A Alex Kozsegi (D-Wave), Mykhaylo Zayats (IBM), Trevor Chaleaux (QuEra), Michael Lubasch (Quantinuum); Moderator: Carl Dukatz (Accenture)
10:20–10:50 AM	Break	Networking Break
10:50–11:20 AM	Talk	High-Compute Needs in Oil & Gas Xiaojun Huang (XOM)
11:20–11:50 AM	Talk	Quantum Applications for Oil and Gas Bob Parney (IBM)
11:50 AM–1:00 PM	Lunch	Mixed Group Seating
1:00–1:45 PM	Reverse Q&A	Quantum Meets Oil & Gas
1:45–2:00 PM	Overview	Overview of Breakout Activities
2:00–3:45 PM	Breakout 1	Problem Discovery & Use-Case Ideation Parallel tracks: Production Optimization & Flow Assurance; Simulation & Modelling; Seismic Imaging
3:45–4:00 PM	Break	Break
4:00–4:45 PM	Reports	Breakout 1 Reports
4:45–5:00 PM	Wrap-Up	Day 1 Wrap-Up
6:30–8:00 PM	Reception / Dinner	Hungry's Upstairs, 2356 Rice Boulevard

DAY 2 — Feasibility, Prioritization & Execution Pathways

Friday, May 15, 2026

8:00–8:15 AM	Featured Talk	QED-C / Rice University Short Talk
8:15–8:45 AM	Talk	Oil and Gas Use Cases in Quantum Computing Jyotsna Sharma (ARPA-E)
8:45–9:15 AM	Talk	Oil and Gas Use Cases in Quantum Computing Divakar Vashisth (Stanford Doerr School of Sustainability)
9:15–9:30 AM	Break	Break
9:30–10:00 AM	Fireside Chat	Quantum Adoption in Other Industries Rima Oueid (DOE)
10:00–11:30 AM	Breakout 2	Feasibility & Fit Analysis
11:30 AM–12:15 PM	Reports	Breakout 2 Reports
12:15–1:45 PM	Lunch	Lunch
1:45–3:15 PM	Breakout 3	Execution Pathways
3:15–3:30 PM	Break	Break
3:30–4:15 PM	Reports	Breakout 3 Reports
4:15–4:45 PM	Summary	Workshop Summary & Next Steps
4:45–5:00 PM	Closing	Closing Remarks

★ SYMPOSIUM HIGHLIGHTS

- Quantum hardware and software landscape
- Oil & gas computational challenges
- Subsurface, simulation, and optimization use cases
- Breakout sessions for pilot-ready ideas
- Cross-sector discussion with industry and quantum experts

✦ LOCAL LOGISTICS

PARKING

Rice University North Parking Lot,
1900 Rice Boulevard, Houston, TX 77005

RECOMMENDED HOTEL

Hotel Zaza Museum District,
5701 Main Street,
Rice University rate available

RECOMMENDED HOTEL

InterContinental Medical Center,
6750 Main Street,
Rice University rate available

✦ WHAT YOU'LL TAKE AWAY

- Understand quantum fundamentals and practical constraints
- Identify pilot-ready opportunities in operations
- Build a roadmap for quantum readiness and partnerships