SEG/SPE Injection-Induced Seismicity Workshop
16–17 June 2026
Banff, Alberta, Canada

TECHNICAL PROGRAM

Monday, 15 June 2026

Icebreaker and Early Registration

18:00–19:30 Banff Centre for Arts and Creativity, Kinnear Centre, KC203

Tuesday, 16 June and Wednesday, 17 June 2026

Banff Centre for Arts and Creativity, Kinnear Centre: Oral Presentations KC103/105; Poster Presentations KC203;

Day 1 Tuesday, 16 June 2026	
7:00–8:00	**Breakfast Buffet in Vistas Restaurant and Registration in Kinnear Centre (~2-minute walk)**
8:00–8:30	**Welcome and Opening Remarks** ***Shawn Maxwell**, Chair, Ovintiv* ***John Eastwood**, SEG Past President*
Induced Seismicity in Western Canada Session Chairs: Shawn Maxwell, Ovintiv and Todd Shipman, Alberta Energy Regulator	
8:30–10:00	**Session Opening**
	Keynote — *Stu Venables, British Columbia Energy Regulator* Banff to Banff: Bookending the last 12 years
	Identification and characterization of fluid disposal-induced seismicity in Alberta, Canada ***Mauricio Canales**, AGS*
	Keynote — *Alex Bolton, Former Regulatory Tribunal Adjudicator* Induced seismicity and the public interest
	Moderated Discussion
10:00–10:30	**Networking Break**
Forecasting Induced Seismicity Hazard and Risk Session Chairs: Jens Lund Snee, Fervo Energy and Katie Smye, The University of Texas at Austin	
10:30–12:00	**Session Opening**
	Inference, forecasting, and control of induced poroelastic stress and seismicity ***Stephen Bourne**, Shell*
	Evidence of direct fluid connections between hydraulic fractures and pre-existing faults at the Cape Station EGS Project ***Taeho Kim**, Stanford University*
	Identifying and interpreting the bound growth of induced earthquakes ***Ryan Schultz**, Swiss Federal Institute of Technology (ETH) Zurich*
	Integrating observations and models to understand magnitude distributions and sequence evolution in induced seismicity ***Elizabeth Cochran**, USGS*
	Moderated Discussion
12:00–13:00	**Lunch — Vistas Restaurant**
Traffic Light Protocols Session Chairs: Hannah Chittenden, Diamondback Energy and Jens Lund Snee, Fervo Energy	
13:00–14:30	**Panel Discussion** ***Doug Klepacki**, Coterra* ***David McHarg**, Tourmaline* ***Andrew Nuytten**, ConocoPhillips* ***David Eaton**, University of Calgary*

Poster Session and Reception Session Chairs: Jens Lund Snee, Fervo Energy and Katie Smye, The University of Texas at Austin	
14:30–14:45	**Poster Session Introduction**
14:45–17:00	**Poster Presentations and Reception — Room KC203**

Day 2 Wednesday, 17 June 2026	
7:00–8:00	**Breakfast Buffet in Vistas Restaurant and Registration in Kinnear Centre (~2-minute walk)**
Management of Interacting Injection Systems Session Chairs: Jonathan Winsor, Shell and Hannah Chittenden, Diamondback Energy	
8:00–10:00	**Session Opening**
	Regional pressurization and local acceleration of basement fault loading in a multi-well disposal setting, Peace River, Alberta ***Kento Akitaya**, University of Calgary*
	Mitigating induced seismicity in Kakwa: A data-driven approach to Winterburn SWD operations ***Rick Nakamoto**, ARC Resources*
	Geomechanical insights into seismicity in the Delaware Basin, West Texas ***Bill Curry**, ExxonMobil*
	Surface to basement: Interacting Permian Basin injection systems and impacts ***Katie Smye**, The University of Texas at Austin*
	Moderated Discussion
10:00–10:30	**Networking Break**
Public and Stakeholder Engagement Session Chairs: Katie Smye, The University of Texas at Austin and Shawn Maxwell, Ovintiv	
10:30–12:00	**Panel Discussion** ***Heather Boychuk**, Ovintiv* ***Allan Ingleson**, University of Calgary* ***Sven Anders**, University of Alberta* ***James Vaughan**, Alberta Energy Regulator*
12:00–13:00	**Lunch — Vistas Restaurant**
Management of CCS Colin Brooks, Oklahoma Corporation Commission and Jonathan Winsor, Shell	
13:00–14:30	Seismicity insights from ten years of storing CO_2 at the Quest Project (Alberta, Canada) ***Jonathan Winsor**, Shell*
	Designing, implementing, and monitoring an adaptive injection induced-seismicity program: Insights from the Decatur CO_2 storage site ***Oladipupo Babarinde**, Illinois State Geological Survey*
	Induced seismicity in CCUS: Insights from Clive and origins in Central Alberta ***Laura Mislan**, Enhance Energy*
	Snyder Region seismicity - A brief historical review ***Paul Anderson**, Oxy*
	Moderated Discussion
14:30–15:00	**Networking Break**
Regulatory and Policy Roundtable Session Chairs: Todd Shipman, Alberta Energy Regulator and Colin Brooks, Oklahoma Corporation Commission	
15:00–16:30	***Reed Baker**, Texas Railroad Commission* ***Colin Brooks**, Oklahoma Corporation Commission* ***Amanda Mitander**, British Columbia Energy Regulator* ***Todd Shipman**, Alberta Energy Regulator*
16:30–17:00	**Concluding Remarks**

Poster Presentations
Quantifying accuracy of analytical solutions utilized to model pore pressure diffusion associated with SWD injection in the Permian Basin ***Josimar Alves da Silva**, ExxonMobil*
The seismogenic basement of the Delaware Basin, Texas imaged with tomography ***Adam Baig**, Nanometrics*
InSAR-constrained characterization of a Mw ~5.3 slow-slip event in the Permian Basin and implications for injection-induced fault reactivation ***Pieter Bas Leezenberg**, SkyGeo*
Can 5-Hz geophones replace broadband seismometers for injection-induced seismicity monitoring? ***Nicholas Brooks**, SensorEra, Inc.*
High-resolution nodal seismic catalogs for improved subsurface interpretation in the Peace River region, Northwestern Alberta ***Hanh Bui**, Alberta Energy Regulator – Alberta Geological Survey*
Evolving earthquake populations in the southern Delaware Basin, TX: Interrogating b-Values and fractal dimension ***Seth Busetti**, Bureau of Economic Geology, The University of Texas*
Sensitivity analysis of earthquake depths in the Culberson–Mentone earthquake zone, Delaware Basin ***Emmanuel Castillo**, The University of Texas at Dallas*
Assessing surface infrastructure vulnerability to injection-induced seismicity using geotechnical beam centrifuge testing and fragility curve development ***Richard Chalaturnyk**, University of Alberta*
Time-dependent maximum magnitude and exceedance probability forecasting for induced seismicity in British Columbia ***Zahra Esmaeilzadeh**, ESG Solutions*
3D geomechanical simulation and probabilistic moment tensor inversion across different frequency bands captures the evolution of a slip patch in time and space ***Ranajit Ghose**, Delft University of Technology*
Implications of integrated mechanistic assessment of the Culberson-Mentone Earthquake System in Texas and New Mexico to induced seismicity hazard characterization data acquisition and strategy ***Elizabeth Horne**, The University of Texas at Austin*
Beyond microseismicity: Characterizing differentially-propped fracture networks and their coupling with faults to unravel induced-seismicity mechanisms ***Gang Hui**, China University of Petroleum Beijing*
Mind the gap: NPS integration for enhanced geomechanical/geophysical analysis and induced seismicity risk Assessment in the Permian Basin ***Reza Keshavarzi**, 3vGeomatics*
Well integrity assessment during saltwater disposal operations considering transient pressure loading and induced seismicity ***Jawad Khan**, PetroND Energy Solution*
An advanced detection and relocation workflow for characterizing seismicity associated with hydraulic fracturing in the Eagle Ford Basin, Texas ***James Kirchenwitz**, Miami University*
Advancing to real-time forecasting in ORION with ML-based event detection, classification, and location ***Kayla Kroll**, Lawrence Livermore National Laboratory*
Beyond seismicity: Evaluating the spatiotemporal transition from deep induced earthquakes to well-failure associated uplift features. A case study from Martin County, Texas (2016–2026) ***Courtney Lucente**, TRE Altamira*
Updated compilation and mapping of the in situ stress regime in the Western Canadian Sedimentary Basin with applications to induced seismicity ***Patrick McLellan**, McLellan Energy Advisors, Inc.*
Data-driven pressure forecasting based on injection rates ***Venkatesh Meenakshisundaram**, ExxonMobil*
Induced seismicity in southeastern New Mexico, USA ***Justin Rubinstein**, US Geological Survey*
Predicting water injection–induced seismicity and mapping risk with machine learning ***Yu Pang**, S&P Global Energy*
Real-time seismic monitoring in Alberta: Network expansion, magnitude consistency, and detection thresholds ***Javad Yusifbayov**, Alberta Geological Survey — Alberta Energy Regulator*