



SPE Wellbore Positioning Technical Section SPE Drilling Advisory Committee 2018 Technical Section Update

Robert Wylie, SPE WPTS 2018 Treasurer

Jonathan Lightfoot, SPE WPTS 2018-19 Chair



SPE Drilling Advisory Committee

Tuesday, 25 September / 12:30 – 1:30 p.m.

SPE Annual Technical Conference and Exhibition



Society of Petroleum Engineers

Technical Section Reports

- a. Technical Session Remit / Constitution
- b. Leadership / Succession Planning
- c. Boundaries (WRT Other Sections)
- d. Current and anticipated Sub-Committees
- e. Sun-setting Conditions (Under what conditions do we “pull-the plug”)

Current Technical Sections

- [Carbon Dioxide Capture, Utilization and Storage](#)
- [Drilling Systems Automation](#)
- [Digital Energy](#)
- [Drilling Uncertainty Prediction](#)
- [Flow Assurance](#)
- [Geomechanics](#)
- [Human Factors](#)
- [Petroleum Data-Driven Analytics \(PD²A\)](#)
- [Research and Development](#)
- [Separations Technology](#)
- [Sustainable Development](#)
- [Unmanned Systems](#)
- [Water Handling and Management](#)
- [Wellbore Positioning](#)
- [Well Integrity](#)

Background & Mission

Founded in 1995.

The 48th General Meeting of the Group on Sept. 27, 2018

[Website: https://connect.spe.org/wellborepositioning/home](https://connect.spe.org/wellborepositioning/home)

Mission: "The primary aim of this group is to produce and maintain standards for the industry relating to wellbore survey accuracy. To set standards for terminology and accuracy specifications. Establish a standard framework for modelling and validation of tool performance. Raise awareness & understanding of wellbore survey accuracy issues across the industry."

Boundaries (With Respect to other SPE Technical Sections)

- Borehole Surveying & Advanced Survey Corrections (i.e. Magnetic, SAG, Axial, Multi-Station Analysis, Advanced MSA, Synthetic Surveys (Based on Steering Intervals), and downhole Continuous Surveying Practices
- Well Intercept, Relief Wells Drilling and Ranging Technologies
- Wellbore and Well Origin Location Position Uncertainty
- Collision Avoidance, Planning, Operations and Practices
- Directional Drilling Advisory Systems including Automated/Continuous Surveying, and Advanced Borehole Positioning Corrections
- Geomagnetic Reference Models including In-Field Reference Systems
- Probability of Collision with respect to Well Separation
- Geodesy, Datums and Coordinate Reference Systems (Vertical & Horizontal CRS) related to Well Origin
- Gyroscopes, Measurement While Drilling and Directional Drilling Related Downhole Equipment, Sensors and Systems including traditional MWD sensors, gyroscopes and MEMS Sensors
- Data redundancy quality methods including Chi squared testing including bench check shot comparisons
- **Education with Respect to Wellbore Positioning (All Areas Above)**