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Call for abstracts – Deadline 15<sup>th</sup> January 2024

# Tectonic Stress: from the lithosphere to the wellbore

21-22 May 2023

The Geological Society, Burlington House, Piccadilly London

Convenors:

**Woody Wilson**  
bp

**Mark Ireland**  
Newcastle University

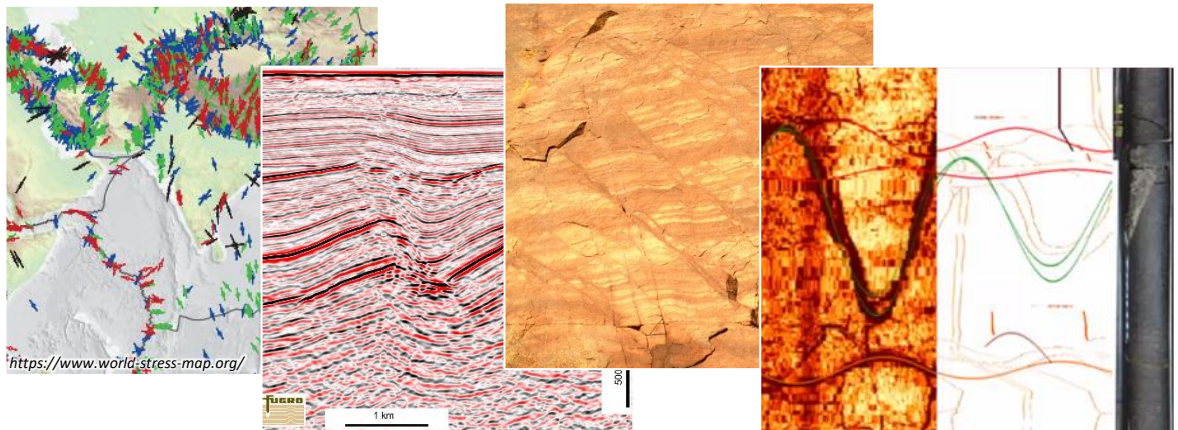
**David McNamara**  
University of Liverpool

**Myra Keep**  
UWA

**Steve Dee**  
bp

Keynote Speakers include:

**Oliver Heidbach**  
GFZ Potsdam



Understanding Tectonic stress, and associated strain, is of fundamental importance to many areas of the energy sector. Integrating tectonics and associated stresses is of key importance at all scales of and across all aspects of the value chain from early exploration, through development and production, as well as long term subsurface containment. From optimized reservoir management for fluid recovery, CCUS and waste disposal; geothermal reservoir performance; wellbore stability during drilling; or geoenvironmental for mining and surface hazard assessments; each require an understanding of the tectonic stresses and their implications for the viability and integrity (both near and long-term) of the project. From an academic perspective, tectonic stresses are a central component of understanding plate tectonics, basin geodynamics, and earthquake dynamics, linking plate diving forces with the resulting strain in the crust/ lithosphere.

**This two-day event will bring together industry and academic groups to present and discuss the latest understanding of Tectonic Stress and how it applies to the energy sector.** The organisers welcomes papers on the following themes: Plate tectonic driving forces; lithospheric stress and deformation; Measuring, monitoring and modelling stress; Reservoir geomechanics and fluid flow (inc. geothermal); Pore pressure, Operations and Wellbore stability; Seismicity (tectonic & induced) and earthquake hazards; Subsurface storage and the energy transition.

The meeting will also be followed by an optional 1.5-day field excursion to the South coast of England to look at the effects of far field stress in the Wessex Basin.

**For further information please contact:**

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