

Biographies

Dr Brian Baptie

Brian obtained his Ph.D. in Seismology from the University of Edinburgh in 1995, after studying the behaviour of seismic waves in anisotropic wave-guides and their use for identifying fractured layers. He joined the British Geological Survey in 1996 as a member of the multi-disciplinary team monitoring the eruption of the Soufriere Hills Volcano in Montserrat, West Indies, where he was responsible for all aspects of the seismic monitoring, from data acquisition to interpretation of volcano-seismicity to local radio interviews, intended to improve understanding of volcanoes and earthquakes. While working on Montserrat he collaborated widely with colleagues both within the UK and overseas on work that has helped to gain key insights into the nature of volcanic earthquakes. In 1999 Brian joined the Seismology and Geomagnetism Programme to work mainly on improving understanding of natural seismic activity in the UK and offshore areas. In 2008 he became team leader of the Earthquake Seismology Team. He has also continued to study active volcanoes, including the ongoing eruption of the Soufriere Hills and Eyjafjallajokull. Areas of research interest include seismotectonics and stress regimes controlling UK seismicity and using passive seismicity to image crustal and upper mantle structure under the UK. Recent research has focused on the use cross-correlation of seismic noise to image spatial variations in the seismic velocity of the sub-surface.

Dr Christopher A. Green

Chris has a Ph.D in Physical Chemistry from Salford University and has over 18 years international oil and gas experience, having worked in North America, Russia, Europe, Asia, West Africa, the Middle East, North Africa and South America. He has over 8 years experience assessing and developing unconventional reservoirs including Tight Gas, CBM and Shale reservoirs world-wide. Chris originally started his career in oilfield production chemicals (demulsifier and paraffin expert) before specialising in production engineering and operations, with a small West African operator. In 2003, he returned to Colorado School of Mines (CSM) to specialise in hydraulic fracture development of unconventional reservoirs and worked with Dr T. Davis, Dr R. Barree and Dr J. Miskimins (within the Reservoir Characterization Project (RCP)/ Fracturing Acidizing Stimulation Technology (FAST) consortia) at Colorado School of Mines, studying the Piceance Basin, Colorado. After completing his MS studies Chris worked for a private, medium-sized French operator, based in their Paris technical group, where he was involved in implementing geomechanical studies to improve completion, perforation and acid/fracturing stimulation practices world-wide. Whilst in this position, Chris implemented and project managed a number of successful "industry first" applications of hydraulic fracturing world-wide. He has recently started his own frac consulting company, G Frac Technologies.

Professor Peter Styles

Peter is a Professor of Applied and Environmental Geophysics Keele University. He has published more than 80 papers and many professional and consulting reports on mining-induced earthquakes and micro-seismological research. He graduated in 1972 (BA (Hons.) Physics) and then studied for a PhD in Geophysics at Newcastle-upon-Tyne. In 1977, Peter became a Lecturer in Geophysics at University College, Swansea where he became interested in using mining-induced earthquakes to predict catastrophic failures in coal mines. He then moved to the Department of Earth Sciences at the University of Liverpool in 1988 and carried out collaborative microseismological research with CSIRO Division of Geomechanics in Brisbane, Australia and became interested in low-frequency noise (Infrasound) and its effects on population. In 2000 Peter moved to Keele University as Professor of Applied and Environmental Geophysics. Peter served as Honorary Secretary of the Geological Society of London from 1996 to 2000 and was president of the Society from 2004 to 2006. He has served as a member of the Editorial Board of the Quarterly Journal of Engineering Geology and Hydrogeology. He is a Chartered Geologist and European Geologist and is also a Fellow of the Royal Astronomical Society, and a Member of the American Geophysical Union and the European Association of Geoscientists and Engineers.