

Geophysics

Expertise Microseismic and acoustic emission (AE) monitoring, applied seismology, induced seismicity, website design

Education MGeophys., (International) (Ist Class Hons), 2008
University of Leeds, Leeds, UK &
University of Western Ontario, London, Canada

Affiliations Member, Volcano-Seismology Research Group, University of Leeds
(2007-2009)

Professional Experience

2008 – Present Applied Seismology Consultants (ASC), Shrewsbury, UK
Geophysicist

Project Experience

Microseismic: Microseismic and acoustic emission (AE) monitoring, principally for the Petroleum, Geothermal, Mining, Radioactive Waste and Laboratory Testing markets, primarily working at the leading edge of the development and application of techniques in passive seismology applied to induced seismicity.

Data Processing: Optimised processing of complex microseismic and acoustic emission data-sets on all scales, working both independently and as part of a team of geophysicists and field engineers. Specific experience with improving delineation of fracture networks in multi-well, multi-stage petroleum hydrofracture projects, and optimising quality and quantity of valuable information contained in the microseismic response to fracture stimulation.

Hardware: Quality assurance and development of ASC's hardware.

Modeling: Modeled the cyclical deformation of Soufriere Hills Volcano, Montserrat and investigated the relation to magma movement and eruption cycles.

Web Design: Responsible for design, development and maintenance of ASC's website.