

Geophysics

Expertise	Microseismic monitoring, applied seismology, induced seismicity
Education	Ph.D. (Seismology), 2008, Cambridge University, UK M.ESc. (Earth Sciences), 2004, Oxford University, UK
Honors & Awards	Girdler Ph.D. Scholarship, BP Amoco prize for Best 4 th year Undergraduate Research Project.
Affiliations	Member, American Geophysical Union (AGU)
Professional Experience	
2008 - Present	<i>Applied Seismology Consultants, Shrewsbury, UK, Geophysicist</i>

Project Experience

Microseismics: Experience in the field of microseismic monitoring, principally for the petroleum and geothermal markets. Processing and interpretation of microseismic data, including induced events from hydraulic stimulation, covering both background automatic processing and detailed off-line analysis.

Development: Developer of the *InSite Seismic Processor*, a leading commercial microseismic acquisition, processing and visualization software system. (Licensees include a number of petroleum, service, geothermal and radioactive-waste companies, as well as leading universities.) Software development to incorporate novel and standard processing techniques. Research, development and implementation of methods for noise suppression in seismic data and automatic phase picking for linear-array seismic data using moveout curve-fitting and guided re-picking. Investigation and development of techniques for single phase locations, using the Gaussian Beam method and incorporating advanced ray-vector analysis techniques.