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**Research Interests**

- Arctic Margins
- South Atlantic Margins
- Eastern Mediterranean
- UK Shale Gas

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## Alastair Fraser, PhD

### FORMER EGI CHAIR IN PETROLEUM GEOSCIENCE

Professor Alastair J. Fraser is the former EGI Chair in Petroleum Geoscience at Imperial College London. He was awarded a B.Sc. from Edinburgh University and a Ph.D. from Glasgow University in the UK, both in Geology.

Following a long and distinguished career in the Oil Industry with BP where he counts the giant Plutonio discovery in Angola as one of his career highlights, he has turned towards new and equally rewarding challenges in academia where he is pursuing his lifelong interest in rift basin evolution and associated petroleum systems. In common with many other industry professionals, his search for oil & gas has taken him to many corners of the world including the Gulf of Mexico, the North Sea, deepwater Angola, the Middle East, and the Far East. With BP's encouragement and support he was able to publish many key papers on the petroleum geology of extensional basins, most notably on the North Sea Jurassic and the U.K. Carboniferous. Al was recently elected Science Secretary for the Geological Society of London where he is chiefly responsible for the technical direction of the Society's many meetings and conferences.

Pursuing his interests in rifts and rifted margins will continue to be his key area of research. Areas of focus will include the following, (several as joint Imperial/EGI projects).

**Arctic Margins:**

- Geology and hydrocarbon potential of the Circum Arctic
- Plate tectonic evolution of the Arctic
- Regional reservoir & source rock prediction

**South Atlantic Margins:**

- Structural and stratigraphic evolution of the West African and Brazilian margins
- Pre-salt play systems
- Salt Basin evolution
- Petroleum systems
- Continental break-up and heat flow prediction

**UK Shale Gas:**

- Jurassic and Carboniferous shale gas resource potential of the Onshore U.K.
- Sweet spot analysis of the two main shale gas and shale oil plays
- Exploration and Development solutions in densely populated areas

**Eastern Mediterranean:**

- Geology of the Messinian saline giant from well, 2D and 3D reflection seismic data
- Tectonic evolution of the Eastern Mediterranean and impact on petroleum potential

A key aspect of the EGI Chair at Imperial is to act as Director of the EGI/Imperial Research Alliance. Here he brings his industry experience to EGI CA member companies through direct contact and interaction with senior managers and exploration teams.