



# Modelling multiphase flow in natural porous media

## **Prof. Peter King**

Chair in Petroleum Engineering Faculty of Engineering, Department of Earth Science & Engineering, Imperial College London

#### Seminar overview:

Multiphase flow in porous media has a number of important applications from groundwater clear up to hydrocarbon recovery. Modelling of the flow is very difficult owing to the interaction of the fluids and complex geometry/topology at the pore scale. At larger scales there is flow is strongly influenced by the complicated geology at a variety of length scales. This is further complicated by the fact that we do not know the precise location and extent of the geological heterogeneities meaning that the best we can hope for are statistical estimates of the large scale flow. This talk will cover some of these issues and modern research on how to resolve them.

### Biography:

Prof. Peter King completed his PhD in theoretical statistical physics at the Cavendish Laboratory, Cambridge, in 1982. After his PhD, he worked with BP at the research and technology centre in Sunbury-on-Thames. He is a Royal Academy of Engineering Visiting Professor in the Department of Engineering at Cambridge University and a Visiting Scholar in the Department of Physics at Boston University. Since 2000 he is Professor of Petroleum Engineering at the Imperial College, London.

### When and where:

Wednesday, 4 Mar, 19:00
Wolfson Room, Lucy Cavendish College

**Queries:** 

Alessandro Fusco af649@cam.ac.uk