

# Chemical Engineering Seminars – MT 2006

*Week 3: Tuesday 24 October, 4:15 pm*  
*Lecture Room 2, Thom Building, Engineering Science*

## “Porous Materials in Regenerative Medicine”

Professor Kevin Shakesheff

Tissue Engineering Group, School of Pharmaceutical Sciences  
The University of Nottingham

### **Abstract**

The clinical potential of stem cells and tissue engineering is dependent on our ability to define the chemical and architectural environment around cells such that the cells are encouraged to form new tissue. This talk will discuss the approaches we use to create 3D tissue using materials as templates. More chemical engineering is required in this field to improve out processes that have been developed by trial and a lot of error.

### **Bio-sketch**

**Prof. Kevin Shakesheff** is Professor of Tissue Engineering and Advanced Drug Delivery. His group is developing new methods of engineering liver, nerve, cartilage, muscle and bone tissue for drug screening and medical applications. He has previously held fellowships at MIT (NATO) and Nottingham (EPSRC).