

# Seminar

Friday, 27 November 2009

11 am - Room 701

## [Professor Geoff Dougherty](#)

**Applied Physics and Medical Imaging Department  
California State University Channel Islands**

*Currently on a Fulbright Senior Scholarship to undertake six months research at  
Queensland University of Technology (QUT), Brisbane.*

### ***Medical Imaging - An Illustrated Overview***

The rapid and continuing progress in computerized medical image reconstruction and the associated developments in analysis methods and computer-aided diagnosis have propelled medical imaging into one of the most important sub-fields of scientific imaging. As well as producing anatomical images, images of physiological function provide fresh diagnostic possibilities. After a brief overview of imaging modalities and an indication of the breadth of current research, a few case studies including bone quality (in osteoporosis), cartilage degradation (in osteoarthritis), retinal tortuosity and spinal curvature (in scoliosis) will be presented. Some of the challenges and ongoing developments will be outlined.

***All Welcome***

#### **Contact Details**

For further information phone 364 2404, or visit our website: [www.phys.canterbury.ac.nz](http://www.phys.canterbury.ac.nz)