

MacDiarmid Access Grid Seminar

Thursday 4 June 12.15pm

Professor Alan Kaiser

MacDiarmid Institute, Victoria University of Wellington

“Graphene: Understanding conduction in single layers of carbon atoms”

Since it was shown in 2004 recently that monolayers of carbon atoms are stable, there has been great interest in both their unusual intrinsic properties and their potential for applications in electronics. This talk will describe our research on the electronic conduction properties of monolayer graphene prepared by chemical reduction of graphene oxide or by making flakes from graphite (in collaboration with the Max Planck Institute for Solid State Research, Stuttgart).

and

Dr Mark Baxendale

Head of the Molecular and Materials Physics Group, Queen Mary, University of London

“Carbon Nanotubes: The Building Blocks of Nanotechnology?”

There has been a large worldwide research into this fascinating macromolecule since discovery in 1991. Currently there are c.7000 publications per year in the physical, chemical, and life sciences devoted to the fundamental science and applications of carbon nanotubes. The degree of interest stems from the unique physical attributes that follow from sp^2 bonding and low dimensionality. This talk gives an overview of developments and the contribution made to the advancement of nanotechnology with an emphasis of the research activity at Queen Mary University of London.

Venues

Victoria University of Wellington, Room RB 106

University of Canterbury, Level 1 Psychology Building

University of Otago, Teaching Facilities, Information Services Building

University of Auckland, 23 Symonds St, Rm 411, Chemistry Building 301



The MacDiarmid Institute

for Advanced Materials and Nanotechnology