



U3A Dunedin

2019 Series 3 Course C
Brochure updated 16 July 2019

- Title** **Aspects of Nanotechnology**
- Dates** **Wednesdays 28 August – 2 October 2019**
- Time** **10 am – 12 noon**
- Venue** **Otago Golf Club, 125 Balmacewen Road, Dunedin**
- Convenor** **Barrie Peake**
Email: barrie.m.peake@gmail.com
Phone: 453 3151 Mobile: 021 079 5054
- Developers** **Barrie Peake & Ian Tucker**
- Course fee** \$45

Nanoparticles are of the order of 10^{-9} (1/1,000,000,000) m in size and in recent years have become increasingly recognised as having some unique chemical and physical characteristics. As they bridge the gap between bulk materials and single molecules, nanoparticles are already being used to create new products that improve many aspects of modern living. This course will describe the historical background to the study of these particles and then illustrate the many applications of the technology arising from their use.

All speakers for this course are experts in their fields and associated with the University of Otago.

All applications must be received by **Friday 2 August, 2019**. You will receive a response to your application by **Monday 12 August, 2019**.

Please contact the Programme Secretary courses@u3adunedin.org.nz, phone 467 2594 with any queries.

Aspects of Nanotechnology

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- 28 August** **Historical development of nanoparticle science**
-*Barrie Peake*
- 'Seeing' nanoparticles in your mouth**
-*Neil Waddell*, Department of Oral Rehabilitation
- 4 September** **Treating your teeth with nanoparticles**
-*Carla Meledandri*, Chemistry Department
- Nanodrugs : Medicinal benefits from lack of size**
-*Eng Tan*, Chemistry Department
- 11 September** **Illuminating nanotechnology – optics at the nanoscale**
-*Richard Blaikie*, Deputy Vice-Chancellor Research and Enterprise
- Surface coatings using nanotechnology – inspiration from nature**
-*Sam Lowrey*, Physics Department
- 18 September** **Vaccines as nanoparticles**
-*Sarah Hook*, School of Pharmacy
- Nanotechnology – friend or foe?**
-*Keith Gordon*, Chemistry Department
- 25 September** **Plasmonics – a new frontier**
-*Jim McQuillan*, Chemistry Department
- Nanoparticles in food technology**
-*Dominic Agyei*, Department of Food Science
- 2 October** **How toxic are nanoparticles?**
-*Jonathan Falconer*, Chemistry Department
- Using computational modelling in nanoscience**
-*Anna Garden*, Chemistry Department