



## U3A Dunedin

2022 Series 2 Course A

Updated 23 April 2022

Access to this course is only with vaccine pass

<b>Title</b>	<b>Let There Be Light – Aspects of the Spectrum</b>
<b>Date</b>	<b>Tuesdays 31 May – 5 July 2022</b>
<b>Time</b>	<b>10 am – 12 noon</b>
<b>Venue</b>	<b>Otago Golf Club, 125 Balmacewen Road, Dunedin</b>
<b>Convenor</b>	<b>Barrie Peake</b> Email: <a href="mailto:barrie.m.peake@gmail.com">barrie.m.peake@gmail.com</a> Phone: 453 3151 Mobile: 021 079 5054
<b>Developers</b>	Stuart Strachan and Barrie Peake
<b>Course fee</b>	\$45 (please do not pay until you receive an invoice)

Visible light as we know it is part of the electromagnetic spectrum which ranges from high energy radiation such as gamma and X-rays through to low energy radio and infrared waves. In this course we will consider these different types of radiation and their widespread applications in many areas of physics, chemistry, astronomy, energy and food production and medicine.

**All applications must be received by Thursday 5 May 2022.** You will receive a response to your application by Monday 16 May 2022.

Please contact the Programme Secretary [courses@u3adunedin.org.nz](mailto:courses@u3adunedin.org.nz), phone 467 2594 with any queries.

## Let There Be Light – Aspects of the Spectrum

- 31 May**      **What is light and how it fits into the electromagnetic spectrum**  
*-Professor Blair Blakie, Department of Physics, University of Otago*
- Laser light**  
*-Associate Professor Mikkel Andersen, Department of Physics, University of Otago*
- 7 June**      **Visible light and how we see**  
*-Dr Rod Keillor, Ophthalmologist, Dunedin*
- Skin cancers induced by light**  
*-Dr Mary Jane Sneyd, Hugh Adam Cancer Epidemiology Unit, Department of Preventive and Social Medicine, Otago Medical School*
- 14 June**      **Casting light on the darkness; the power and beauty of multi-wavelength astronomy**  
*-Dr Ian Griffin, Director, Otago Museum*
- Southern lights**  
*-Dr Ian Griffin, Director, Otago Museum*
- 21 June**      **Exploring pharmaceutical and medical systems using light (spectroscopy)**  
*-Dr Sara Miller, Department of Chemistry, University of Otago*
- Capturing sunlight in solar cells**  
*-Professor Keith Gordon, Department of Chemistry, University of Otago*
- 28 June**      **Light in photosynthesis**  
*-Professor Julian Eaton-Rye, Department of Biochemistry, University of Otago*
- Drug delivery assisted by light**  
*-Dr Eng Tan, Department of Chemistry, University of Otago*
- 5 July**      **Medical imaging**  
*-Giles Wynn-Williams, Medical Physicist, Southern District Health Board*