

Date: Thursday, 21 May 2015
Time: 5.30 - 7.00 pm
Venue: New Law School Seminar 020, The University of Sydney

To celebrate the **International Year of Light**, CUDOS is **hosting a set of presentations** describing how scientific breakthroughs in the understanding of light have changed and improved our lives. Using **Nobel prizes awarded for light-related research** as a guide, an inspirational set of expert speakers will discuss how our understanding of light has changed since the early 20th century, how this understanding has helped change society for the better, and how it helps us understand our place on earth and beyond.

SPEAKER: ANDREW DOHERTY

The Story of the Photon: from Einstein to Glauber

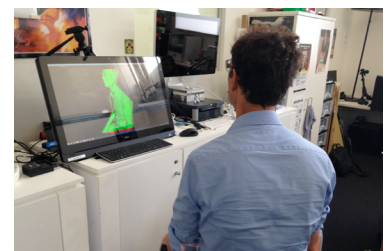


Einstein was awarded the Nobel Prize for showing that under the right circumstances light can behave as if it is made of particles that he called photons. The idea of the photon underpins many familiar modern technologies, such as digital cameras and lasers. However throughout the twentieth century fierce debates took place as scientists tried to understand what they were talking about when they talked about photons. Some of the most important research involved scientists from right here at the University of Sydney. Associate Professor Doherty will describe the fascinating history of the photon, from Einstein to present day research on quantum computing.

Following the presentation light refreshments will be served. There will be also an opportunity to participate in **futuristic experiences**, courtesy of the University's **ICT Innovation TechLab**. This lab houses the kinds of new technologies once only dreamed of in the realm of science fiction:

Check out the **Kinect for Windows** - a depth sensing camera popularly used in interactive games. With simple software it can be turned into a high resolution 3D scanner to create a full colour model of an object, person or room that can be recreated on a 3D printer.

Lucky audience members will have the opportunity to have a body scan to create their very own 3D Mini Me!



Registration is not required but please arrive early as seating is limited.

