



**REDEFINING HOW WE
MEASURE OUR WORLD**



DODD-WALLS CENTRE
for Photonic and Quantum Technologies

SI Roadshow Dunedin Programme

In partnership with the Dodd-Walls Centre

Thursday 21 March, 3:00 pm - 6:00 pm

Otago Museum, Barclay Theatre (Level 1), 419 Great King Street, North Dunedin

3:00 pm	Arrival Tea and Coffee
3:30 pm	<p>Welcome and Opening</p> <p>Presenter: Dr Fleur Francois, Director, Measurement Standards Laboratory of New Zealand</p>
3:40 pm	<p>Cheese, Platinum, and Fundamental Constants – what is the SI revision all about?</p> <p><i>Worldwide agreement on units of measurement has brought us freedom to trade and innovate as well as supported improved wellbeing and trust. So why are we changing things up now and what does the revision of the International System of units promise for the future?</i></p> <p>Presenters: Dr Annette Koo, Dr Rebecca Hawke</p>
4:20 pm	<p>Precision measurement and advances in science</p> <p><i>Much of what the Dodd-Walls Centre is engaged in is associated with precision measurement or precision control of atomic systems. It is not a coincidence that many of the techniques we use were pioneered in standards laboratories. For example, one of the 1997 Nobel Laureates in Physics was Bill Phillips from NIST in Gaithersburg (a DWC Science Advisory Board member), Eric Cornell and Carl Wieman (2003) were associated with NIST in Boulder, as was Jan Hall (2005). In this talk I will try to outline why advances in standards technology almost always lead to advances in our understanding of the world. The changes coming on May 20th will undoubtedly lead to further such advances.</i></p> <p>Presenter: Professor David Hutchinson, Director, Dodd-Walls Centre of Photonic and Quantum Technologies</p>
4:40 pm	<p>Measurement for Automation at Scott Technology</p> <p><i>Traditional automation produces standard outputs from standard inputs. Modern industry wants to produce customised products in small batches and, if you're in the meat industry, the inputs are far from standard. This talk will be about how Scott Technology uses measurement technology to provide automated machinery for New Zealand's primary industries.</i></p> <p>Presenter: Callum McKenzie, Lead Industry 4.0, Scott Technology</p>
5:00 – 6:00 pm	Networking hosted by the Metrology Society of Australasia - Beautiful Science room (Level 1)

Please [click here](#) to register for the SI Roadshow Dunedin workshop