

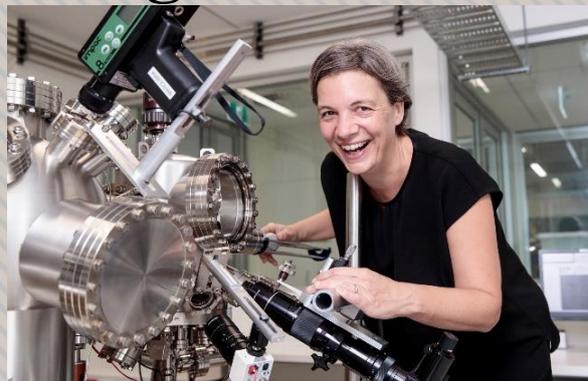
**EINSTEIN LECTURE** presented by

**Prof Michelle Simmons** (2018 Australian of the Year)

# “The Quantum Computing Revolution”

**Public Lecture at 6.00 pm  
Tuesday, 14 August 2018**

**Leighton Hall,  
John Niland Scientia Building  
(G19) University of New South  
Wales**



*This year is the Australian Institute of Physics (NSW) 13<sup>th</sup> Einstein Lecture, and is in partnership with the UNSW. Take advantage of this unique opportunity by listening to an exciting lecture at this fabulous UNSW flagship venue.*

**Cost is FREE but registration essential as places are limited.**

## **Abstract:**

‘A quantum computer would be able to solve problems in minutes that would otherwise take thousands of years’

Canadian PM Justin Trudeau made international headlines when he effortlessly explained quantum computing, as this exciting research field is often considered difficult for outsiders to understand. For pioneers of quantum computing like Michelle Simmons, their work creating new technology is a passion that they are keen to share. Simmons is a scientist, an entrepreneur and the 2018 Australian of the year. Her day job involves leading a team of elite scientists in the race to develop a quantum computer in silicon. She has been described as the creator of the new field of atomic electronics and established Australia’s first quantum computing company in 2017. Join us to hear this extraordinary scientist tell her story, outline the scientific challenges her team faces and explain why quantum computing matters.

## **Speaker Background:**

Michelle Simmons is currently a Scientia professor and Laureate Fellow at the University of New South Wales. In 1999, she was awarded a QEII Fellowship and came to Australia where she was a founding member of the Centre of Excellence for Quantum Computer Technology.

Since then she has established a large research group dedicated to the fabrication of atomic-scale devices in silicon and germanium using the atomic precision of a scanning tunneling microscope. She has published more than 360 papers in refereed journals and has won numerous awards including the Pawsey Medal by the Australian Academy of Science, NSW Scientist of the Year, the Eureka Prize for Leadership in Science and recently the 2018 Australian of the Year which recognises Michelle’s research and leadership in nanotechnology and quantum computing.

