

GIRLS IN PHYSICS  
BREAKFAST  
FRI, 17TH APRIL



*New materials are important for every area of technological development – from building and construction, to electronic devices, quantum computing and medical implants. This makes materials science an exciting area of research with broad practical applications.*

*My area of research is materials for renewable energy applications. One of the problems with renewable energy is that we don't have efficient ways of storing and transporting the energy. One solution to this problem is photocatalysis, where energy from light is used to make chemical reactions occur. By this process, new materials can directly convert solar energy to chemical fuels such as hydrogen. This means that the energy can be stored and transported. However, current materials have low efficiencies, high costs and poor long-term stability. The challenge is to understand the reasons for these problems and to design improved materials.*

Dr Judy Hart is a Senior Lecturer in the School of Materials Science and Engineering at UNSW. After completing undergraduate studies and a PhD in Materials Engineering at Monash University, she spent 7 years in the United Kingdom as a post-doctoral researcher. Her research interests are in the use of computational and experimental approaches to design new materials. She also has a passion for teaching and encouraging women to pursue careers in materials science.

*This event is sponsored by Bank Australia, the Laby Foundation, Vicphysics Teachers' Network, the Victorian Branch of the Australian Institute of Physics and supported by the Royal Society of Victoria.*



'Developing new materials for renewable energy': with Dr Judy Hart, University of New South Wales

And ... have breakfast with women with a career in physics or engineering.

*'I was talking to a guest at my table and her career sounded so amazing. Then I realised that in 8 years that could be me. I got so excited.'*

Then afterwards, explore the different types of STEM careers that might suit you.

To sign up, see \_\_\_\_\_

Cost: \$15 Max: 12 students

The Valleys Restaurant,  
Wodonga TAFE  
7:30am - 10:00am