

GIRLS IN PHYSICS BREAKFAST

FOR STUDENTS IN
YEARS 10, 11 & 12
INTERESTED IN A
CAREER IN STEM



DEVELOPING NEW MATERIALS FOR RENEWABLE ENERGY

DR JUDY HART, UNSW

\$15 per student

Max. 12 Students per school

7:30 - 10:00am

Friday 19 August 2022

Mildura Golf Club

Mildura

Chat with like minded students and women who have a career in Physics and Engineering. Ask questions about University or working in STEM and explore different careers that might work for you.

'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!'



SPEAK TO YOUR SCIENCE TEACHER TO SIGN UP

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GIRLS IN PHYSICS BREAKFAST

GUEST SPEAKER



Dr Judy Hart
UNSW

DEVELOPING NEW MATERIALS FOR RENEWABLE ENERGY

Speaker:

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.

Abstract:

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.



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