GIRLS IN PHYSICS

BREAKFAST

WODONGA 2025

VicPhys

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

Meet like-minded students and women who have a career in Physics and Engineering. Ask questions and explore different pathways that might work for you!

Breath of Discovery : Nanotechnology a Disease Breathalyser

Dr Renee Goreham
School of Information and Physical Sciences, College of Engineering, Science and Environment, The University of Newcastle

Wednesday May 7, 2025
South Auditorium
The Cube, Wodonga

$15 per student
(Max. 12 Students per school)
Breakfast 8.30am to 11.00am

SCAN FOR MORE INFO

Speak to your science teacher about attending the breakfast

"I was talking to a guest at my table and her career sounded so amazing. Then I realised that in eight years that could be me. I got so excited!" - Year 10 Student

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Breath of Discovery : Nanotechnology a Disease Breathalyser

Speaker Bio: Dr Renee Goreham

School of Information and Physical Sciences, College of Engineering, Science and Environment, The University of Newcastle

Dr Renee Goreham, a Senior Lecturer in physics at the University of Newcastle, is an expert in NanoBiotechnology. Originally from Port Augusta, a small town in South Australia, Renee now explores the world of the minuscule (nano-sized!). After earning her PhD in 2014 from the University of South Australia, she continued her research through post-doctoral positions at Flinders University, the University of South Australia, and Victoria University of Wellington (New Zealand).

Returning to Australia, Renee joined the University of Newcastle in 2019, where her contributions were honoured with the Women in Research Fellowship in 2020. Recently, she received the AIP NSW Community Outreach Award in Physics for her remarkable efforts in sharing science with the community. Join us as Dr. Renee Goreham takes us on an exciting journey at the intersection of nanotechnology and healthcare, unlocking new possibilities for early disease detection.

Abstract: Imagine living in a world where diseases like lung cancer could be identified even before symptoms appear, offering patients a crucial head start in their fight against illness. Currently, there's no efficient screening for lung cancer until symptoms emerge, often at an advanced stage. Renee's research is on using nanotechnology and transforming the act of breathing into a diagnostic tool for lung cancer.

The unique approach zeroes in on distinctive particles present in breath, acting as markers for cancer. Renee's research group is actively working on designing a portable and affordable device that can revolutionise early detection. Just envision the profound impact of identifying lung cancer sooner, well before any symptoms manifest – all through the simple act of breathing! Renee will discuss what nanotechnology is and how she uses it in her research to make new technologies.

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