

# GIRLS IN PHYSICS BREAKFAST FRI, 15th MAY



*Space provides us with the unique environment of microgravity and vacuum in which to perform scientific experiments. On Earth, we can briefly recreate, microgravity conditions on board parabolic flights. These are used to test experiments for long-term use on the international space station.*

*In this talk I will describe*

- *experiments that benefit from microgravity,*
- *how to recreate microgravity on Earth, and*
- *the science that is currently being studied on the space station.*

*The talk will conclude with the future plans of humanity and what science and technology we need in order to continue exploring our solar system.*

Dr Gail Iles is a Physics Lecturer at RMIT, following working at ANSTO (Sydney), where she was an instrument scientist. Gail completed her PhD in experimental condensed matter physics at the University of Leicester (UK) before becoming a researcher for the European Space Agency - a position which saw her complete over 500 parabolas in the A300 Zero-G Airbus. From there she became an astronaut instructor at the European Astronaut Centre (Germany). Her current research interests include microgravity, magnetic nanoparticles, neutron and x-ray scattering and instrumentation design.

*This event is sponsored by Bank Australia, the Laby Foundation, Vicphysics Teachers' Network, the Victorian Branch of the Australian Institute of Physics, the College of Science, Health and Engineering at La Trobe University and supported by the Royal Society of Victoria.*



*'Human spaceflight and science in space'*  
with Dr Gail Iles, RMIT

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 do two activities on Careers in STEM.

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

Cost: \$15

Max: 12 students

Shamrock Hotel, Bendigo

7:30am - 10:00am