

Girls in Physics Breakfast

Friday, 1st May, 7:30am to 9:30am *

Warrnambool Campus, Deakin University

To: Women in, or planning for, a career in Science or Engineering

Would you like to:

- Have breakfast with a table of keen students and like-minded women?
- Answer the students' questions about university or working in Science and Engineering?

Then you are invited to the Girls in Physics Breakfast in Warrnambool and ...
to also hear Prof Frances Separovic speak on

'MRI of Molecules: Biophysics meets Cell Chemistry'

- * From 9:30am to 10:00am, there are Careers in STEM Activities which are of value to students and guests alike.

Abstract: Nuclear Magnetic Resonance (NMR) enables the structure and function relationship of large biomolecules to be determined. This talk will include a brief introduction to NMR spectroscopy, which led to the development of MRI, and how it is used to determine the 3D atomic structure of molecules. We are using NMR to determine the interaction of antibiotics with cell membranes and unravel the interactions of biomolecules from Alzheimer's disease.

Prof Frances Separovic is Emeritus Professor of Chemistry and Deputy Director of the Bio21 Molecular Science & Biotechnology Institute, University of Melbourne. After obtaining a BA from Macquarie University, Frances was awarded a PhD in Physics from University of NSW. She has held several honorary positions at international institutions including Harvard Medical School; University of London; San Diego State University; and University of Oxford.

Her research interests range from membrane biophysics to determining the structure of biological macromolecules with a focus on antibiotics and toxins. Frances is an editorial board member of several international journals and has published over 220 journal papers and organised 40 major scientific conferences. In 2012, Frances was elected to the Australian Academy of Science. In 2019 Frances received an AO for her distinguished service to science education, as an academic, and to young women scientists.



To attend, please register at www.vicphysics.org/breakfast.html by Wednesday, 22nd April. **There is no cost to you.** Any queries: vicphys@vicphysics.org.

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.

