WEDS, 18TH MARCH
GIRLS IN PHYSICS BREAKFAST

<u>Fluorescence microscopy</u>: what it is, how it works, how it is used and what it reveals. Fluorescence microscopy helps to visualise how molecules move through the large three dimensional DNA molecule in a living cell. This relates to how genes produce proteins and why genes sometimes produce the wrong protein, which can lead to cancer.

Glow in the dark: *Using fluorescence to observe DNA in a living cell* ... with **Dr Elizabeth Hinze**, University of Melbourne

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 two activities on careers in STEM.

To sign up, see _____

Cost: $15 **Max:** 12 students

Davidson Restaurant, Gordon TAFE, 2 Fenwick St, Geelong

8:00am - 10:15am

Dr Elizabeth Hinde is currently at the Department of Biochemistry and Molecular Biology, University of Melbourne. In 2010 Elizabeth completed her PhD in fluorescence spectroscopy at the University of Melbourne and was then recruited to the University of California. There Elizabeth developed fluorescence methods to quantify the interactions of chromatins, which are bundles of DNA in live cells. This work was recently recognised by the US Biophysical Society with the 2014 Young Fluorescence Investigator Award and the Australian Society of Biophysics with the 2016 McAulay-Hope Prize for Original Biophysics.

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.

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