

# An evening with the STARS

**Date:** Friday 17 August 2018

**Venue:** Swinburne University, Hawthorn campus, **ATC101** (Enter from Burwood Rd)

**4:30 pm - 5:30 pm AIP Women in Physics Public Lecture with DR CERI BRENNER**

## **Igniting stars with super intense lasers**

When we press FIRE on the most powerful laser in the world, we deliver a packet of light that is a thousand billion billion times more intense than the sunlight you feel while out on Bondi beach in peak summer! That's super intense! We can use this extreme power to recreate the conditions at the centre of Sun and in the process release vast amounts of energy in a clean and safe way. Harnessing this power for electricity generation is an inspiring story. It combines pure and applied physics and requires engineering to handle the most extreme conditions in our solar system.

**5:30 pm - 6:30 pm DEEPER DARKER BRIGHTER Art exhibition with refreshments**

Conveying the wonder of science through art, Pamela Bain and Carolyn Lewens explore the universe with Swinburne University Centre for Astrophysics and Supercomputing resulting in an odyssey of aesthetic and sensory experiences.

**6:30 pm - 7:30 pm National Science Week Public lecture with DR REBECCA ALLEN**

## **State of the Universe VIII – the people's edition**

Whether it is depending on the stars in the sky to navigate a ship's journey or developing technology that enables the successful landing of a rover on a distant planet, space has always been part of who we are. In this special edition of State of the Universe, Dr Rebecca Allen will discuss some of the contemporary men and women who have advanced the studies of and journeys into the Cosmos, and where we are today.

**7:30 pm - 8:30 pm Telescope viewing (weather permitting)**

Map: <http://www.swinburne.edu.au/media/swinburneeduau/about-swinburne/docs/pdfs/hawthorn-map.pdf>

**REGISTRATION:** For further information and registration, please ctrl+click on the link below. Lecture room capacity 450. Closes when maximum capacity reached.



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docs.google.com

Our National Science Week extravaganza!

### About our presenters

#### Australian Institute of Physics proudly presents DR CERI BRENNER (Women in Physics lecturer 2018)

Dr Ceri Brenner is a physicist using the most powerful lasers in the world to develop innovative imaging technology for medical, nuclear and aerospace inspection. She has a unique role that spans research, innovation and business development and is driving the translation of laser-driven accelerator research into industrial applications that impact our society. In 2017 she was awarded the UK Institute of Physics' Clifford-Paterson Medal and Prize for her significant early career contributions to the application of physics in an industrial context. Ceri is a highly experienced and popular science communicator and is a strong advocate of physics engagement to reach new audiences within the public, academia and industry. She especially enjoys inspiring the next generation into this exciting profession.



Her website can be found here: <http://www.drцерибrenner.co.uk/>

#### Centre for Astrophysics and Supercomputing proudly presents DR REBECCA ALLEN



**Dr Rebecca Allen** completed her PhD in astrophysics at Swinburne University of Technology. Her research focuses on using galaxy sizes, measured from Hubble Space telescope images, to reveal clues about their growth and evolution going all the way back to when the Universe was barely a billion years old. Now, she uses her expertise and enthusiasm to help inspire the next generation of scientists by communicating the amazing research being done at Swinburne University across all areas of STEM.

Rebecca's twitter feed can be found here: <https://twitter.com/cosmicrebe>