

# Special Public AIP Lecture Event – at Macquarie University



## “Innovation with the most powerful lasers in the world”

*Enjoy listening to an exciting lecture*

**Wednesday, 8 August 2018**  
**6.30 – 7.30 pm**  
E6B149  
Macquarie University  
Enquiries: PH: (02) 9850 8959  
**Cost: FREE**



*Dr Ceri Brenner*

### WIP Lecture Series

Each year the Australian Institute of Physics (AIP) funds a national tour by an eminent female physicist. This year’s AIP Women in Physics lecturer will be Dr Ceri Brenner, an experimental physicist from the UK. Ceri’s AIP lecture in Sydney is in partnership with the Department of Physics and Astronomy at Macquarie University.

Ceri Brenner is a plasma physicist and innovator who uses the most powerful lasers in the world to study what happens when extreme bursts of light come into contact with matter and is using this knowledge to design new X-ray technology that can see through steel! The extreme physics she studies can also be applied for understanding supernova explosions in space or how we can ignite a star on earth for clean electricity generation.

When Ceri shines the CLF’s super-intense lasers at a solid, liquid or a gas, they super-heat to millions of degrees in less than a trillionth of a second and rip apart the material structure to transform into plasma—the fourth state of matter.

