

# Physics in the Pub

**The Physics Free-For-All Variety Night!!**

**Friday 15 October 2021**

**6:30PM for 7PM start**

**Ashfield Hotel, 204 Liverpool Road Ashfield**



## **Spyplanes, Enzymes & Alpha Centauri: AIP Physics in the Pub**

Come and hear local physicists talking about their work, their play and their lockdown research rabbit holes. Why are U2 spyplanes so dangerous - to the wrong people? How can we fly to another star? Why are tin sheds so good for gliding?

Nine short talks from all over the world of Physics, and all over the Sydney Science scene. Grab a refreshing beverage and settle in for a fascinating night, sponsored by the Australian Institute of Physics NSW Branch.

This is a free event; however, attendees will need to cover the cost of their own food and drinks. **To attend this event, please [register on Eventbrite](#)**

More info [on Facebook](#):

## THE LINE UP

Breakthrough Starshot is a plan to send a fleet of spacecraft to another star for the first time ever. **Alessandro Tunis (Sydney Uni)** will tell us how these tiny craft will surf to Alpha Centauri on a ground-based laser beam.

Seismology and archaeology sound like things you'd do in the ground - **Kirsten Banks (UNSW)** does them in the sky!

Grab a glass of warm milk and a blankie - **Chris Ferrie (UTS)** is going to read us his best-selling book, *Quantum Physics for Babies*.

**Rachel Rayner (CSIRO)** loves photons. No, really loves them. She's sharing a segment of her sell-out show from Adelaide Fringe on the electromagnetic spectrum. Yes, sell-out!

Stars explode and make an amazing spectacle - but could they endanger the earth? Is that what caused the mass extinction around 400 million years ago, asks **Graeme Melville (UNSW)?**

**Ian Bryce (AIP)** says it's very challenging and dangerous to fly a spy plane such as the U2. But we can't tell you how he knows...

In 1913 Michaelis and Menten worked out the four differential equations that describe enzyme kinetics - but couldn't solve them. 108 years later, **Tony Dooley (UTS)** has.

**Boris Jovanovic (AIP, RAeS)** is going to take us gliding, a complex pursuit that relies on the physics of movements of invisible air, climatic variations in heat and moisture, and micro-climates created by tin roofs in the outback - surprisingly significant!

Some people say physics is stuffed, but **Tibor Molnar (University of Sydney)** says no. He argues that "stuff" might not even exist!

MCed by **Dr Phil Dooley (Phil Up On Science)**

**For more information please contact:**

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