

Session Program

30 November 2025 to 5 December 2025



AIP summer meeting 2025

Industrial Applied Physics

Building 40, Hope Theatre
University of Wollongong Northfields Avenue Wollongong NSW 2522

Wednesday 3 December

10:45

Industrial Applied Physics: Industrial Applied Physics

Session |
Location: Building 40, Hope Theatre, University of Wollongong Northfields Avenue Wollongong NSW 2522

10:45-11:00
Compact and Scalable Electronics for Sub-10 ps Timing in Particle Physics and Medical Imaging

Speaker
Mr Yuri Venturini

11:00-11:15
SET setups at the Australian and Canadian pulsed laser facilities in the chase of the critical parameters for direct comparison

Speaker
Mr Jacob Wright

11:15-11:30
Quantum nonlinear parametric interaction in realistic waveguides: a comprehensive study

Speaker
Tim Weiss

11:30-11:45 **Response of Sea Urchins to Light Polarisation**

Speaker
Yun Peng Li

11:45-12:00
Contactless magnetoresistance and magnetic hysteresis sensor for measuring minerals in industrial applications

Speaker
Larissa Huston

12:00-12:15
Activation SPECT for 3D elemental mapping of a neutron-irradiated ore sample

Speaker
Sherryn MacLeod

12:15-12:30
A novel wavelength-modulation spectroscopy gas sensor for methane detection

Speaker
Matteo Colombo

12:30-12:45 **Accelerating physical systems with quantized utility agents**

Speaker
Arindam Saha

12:45