



Australian Society of Rheology

2017 Rheology Lecture Series

The Australian Society of Rheology (ASR) presents a series of lectures that is open to anyone interested in the flow and deformation of matter. The next lecture in the series is at RMIT University.

DATE: Wednesday, 5th April 2017

TIME: 5:30–6:00 pm: Refreshments (nibbles and drinks)
6:00–7:00 pm: Presentation

SPEAKERS:

Mr. Phred Petersen (RMIT)

Dr Chris Garvey (ANSTO)

VENUE: **RMIT University**

Refreshments: Physics staff room 14.06.01 (Building 14, level 6)

Lectures: Room 12.08.02 (Building 12, level 8)

RMIT City Campus

Transport and Parking

Public transport to Melbourne Central/Swanston St is the best option. A campus map is available at:

<https://www.rmit.edu.au/about/our-locations-and-facilities/locations/melbourne-city-campus/maps-and-buildings>

Abstracts:

1. Mr. Phred Petersen

Scientific Photography group, School of Art, RMIT University, Melbourne

Title: Smoke and Mirrors: Flow visualisation just for the fun of it

Abstract: This talk will be a visual tour of flow visualisation experiments that have been driven mostly by personal curiosity, and an interest in seeing the order of nature in ways that blur the boundaries between science and art.

Biography: Phred teaches photography at RMIT and specialises in applications of photography for scientific and industrial research, with a specific interest in schlieren and shadowgraph methods, high speed photography of transient events and flow visualization. He was winner of the 2008 Australian Museum Eureka Prize for Science Photography with an entry titled “Blast Wave” and collaborates with engineers and scientists on a wide variety of projects requiring his specialized expertise in flow visualization.

2. Dr Chris Garvey

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Australian Nuclear Science and Technology Organisation, Lucas Heights, Sydney

Title: Getting statistical and structural in shear

Abstract: Neutron scattering provides a non-destructive tool to probe materials undergoing shear, and a unique structural perspective on complex fluids and soft matter, probing length-scales up to microns. I will introduce the neutron scattering facilities at the Australian Centre for Neutron Scattering on ANSTO's Opal reactor, the range of sample environments available, and the possibilities for structural investigations on neutron scattering beamlines.

Biography: Dr. Chris Garvey is a small angle neutron scattering instrument scientist at ANSTO's Australian Centre for Neutron Scattering, where he develops novel measurement environments and methods that further extend the utility of the small-angle-scattering technique to applied and industrial problems. He holds a PhD from Monash University's Department of Chemical Engineering.