

## FDRG Seminar

# Numerical simulation of impinging jets, and vortex generating jets

presented by

**Dr. James Jewkes**

Department of Mechanical Engineering &  
Fluid Dynamics Research Group,  
Curtin University

The turbulent jet is a canonical flowfield in fluid mechanics, and is particularly effective for the mixing and transport of momentum and heat. In this seminar, high-resolution numerical modelling of two different engineering applications of turbulent jets will be discussed: the impinging jet, which is commonly utilised in cooling applications, and the vortex generating jet, which is often utilised in drag reduction applications. Issues associated with the modelling of entrainment, free-jet development, stagnation-point flow and boundary-layer growth will be discussed. Results of this ongoing research will be presented.

Date: Friday 6<sup>th</sup> June  
Time: 4pm – 5pm  
Location: 215:300  
Curtin University, Bentley Campus

No RSVP required. For queries please email:  
[fdrg@curtin.edu.au](mailto:fdrg@curtin.edu.au)