



**MONASH** University

## **Department of Chemical Engineering Seminar**

**Rheology and the triple bottom line (Environmental Rheology) - is the mineral industry moving towards more sustainable development with its waste?**

Presented by:

**David V. Boger, FRS**

Laureate Professor,

The University of Melbourne.

**Thursday 17<sup>th</sup> July 2008, 4 – 5pm. Building 69, Room 201.**

**Abstract.** Currently there is an unprecedented boom in the minerals industry worldwide. Ironically this industry is the world's largest producer of waste. One mine, excluding overburden, can produce as much as 250,000 tonnes of fine particle waste per day which is pumped to a disposal area as a slurry. The presentation illustrates how basic science in rheology (the deformation and flow of materials) has been used to successfully minimize the waste produced in the alumina industry, moving that industry in particular towards more sustainable practices. Other industries worldwide have not picked up the available technology as readily as the alumina industry; the question is, why? The seminar concludes with a discussion as to why this industry might not be moving towards more sustainable practices as rapidly as other industries like the chemical industry.

Inquiries to Dr Gareth Forde ([gareth.forde@eng.monash.edu.au](mailto:gareth.forde@eng.monash.edu.au))