

Mathematical Modelling and Simulation of Power Plants and CO₂ Capture – WORKSHOP 2012



**A UK CCS Community Network specialist workshop
supported by the Research Councils UK Energy Programme**

- Organisers:** Warwick (Prof J Wang),
Edinburgh (Dr H Chalmers and Dr M Lucquiaud),
Sussex (Dr J Peng)
- Date:** 12:00 lunch time 20th March 2012 – 14:00 21st March 2012
Free Dinner: Scarman House (on University Campus), 20th March 2012
- Venue:** F111, School of Engineering, University of Warwick, CV4 7AL, United Kingdom
- Programme:** The workshop programme consists of *presentations, software demonstrations* and *poster presentations*.

Space will be available for follow-up discussions on 21st March after 14:00

Mathematical modelling and simulation play a crucial role in proof of concept, feasibility study, reliability and performance analysis for new design and development to be cost effective and robust. This is especially important in power generation industry, where we are limited in experiments with the real object (power plant). Modelling can potentially support decisions at a range of business levels, from strategic planning, component and process design through to plant and system implementation, operation and maintenance.

This workshop aims to achieve the following objectives:

- to exchange the information of modelling and simulation techniques and the progress of research in this area;
- to create a meeting platform for researchers in this area to get together;
- to get a better picture for who does what in this research area;
- to update the software package and computer language available for modelling and simulation;
- to explore the opportunity for more unified software package in the future to achieve exchangeable modelling and simulation blocks;
- to get better ideas for what the industrial needs are.

During the workshop experts from academic institutes and industry will be presenting their recent work in power plant and CCS process modelling. Demonstrations and panel discussions are scheduled to demonstrate the simulation work and software package used and to discuss for potential collaboration and future grant applications.

Accommodation:

On campus:

Scarman - <http://www2.warwick.ac.uk/conferences/scarman>

Radcliffe - <http://www2.warwick.ac.uk/conferences/radcliffe>

Arden - <http://www2.warwick.ac.uk/conferences/arden>

Off Campus:

<http://www.theoldbakery.eu/> (Kenilworth - approx. 10km)

<http://www.castlelaurels.co.uk/> (Kenilworth - approx. 10km)

<http://wwwcottage.co.uk/> (Coventry - approx. 1km)

<http://www.smoothhound.co.uk/hotels/lodgefarmhouse.html> (Coventry - approx. 2km)

<http://www.village-hotels.co.uk/hotels/coventry> (Coventry - approx. 4km)

<http://www.premierinn.com/en> (Search CV3 6PB. Coventry - 4.5km)

Registration - please visit website and register:

<http://powerplantworkshop.eventbrite.co.uk>

<http://www.eventbrite.co.uk/event/2784858587>

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