



# A New Age for Coal with Carbon Capture and Storage (CCS)

Thursday 7 November 2013

Institute of Materials, Minerals and Mining, London, UK

Organised by SCI's Science and Enterprise and  
Process Engineering Groups



# Programme

- 09:30** Registration and refreshments
- 10:00** **Introduction by chair for morning session**  
Stuart Haszeldine, Edinburgh University
- 10:05** **The role of coal in the evolution of European energy policy**  
Mark Powell, AT Kearney Energy and Utilities Group
- 10:30** **Prospects for growth of CCS as an enabler for coal**  
Jeff Chapman, Carbon Capture and Storage Association
- 10:55** **Commercial feasibility of integrated gasification combined cycle (IGCC)**  
Francisco García Peña, ELCOGAS Puertollano IGCC Plant
- 11:20** **Flameless pressurised oxycombustion (FPO)**  
Massimo Malavasi, ITEA
- 11:45** Refreshments
- 12:15** **Overview of CO<sub>2</sub> capture**  
Paul Fennel, Impérial College
- 12:40** **Status and future outlook for carbon credit certificates**  
Alexandre Vial, Enercap France
- 13:05** **CO<sub>2</sub> capture projects**  
Giancarlo Benelli, ENEL
- 13:30** Lunch
- 14:30** **Introduction by chair for the afternoon session**  
Chair: Andy Brown, Progressive Energy
- 14:35** **CO<sub>2</sub> storage / disposal technologies**  
Stuart Haszeldine, Edinburgh University
- 15:00** **Oral poster presentation**
- 15:15** **CO<sub>2</sub> utilisation: The White Rose CCS project and development of the Humber Cluster**  
Peter Emery, Drax Power
- 15:40** **Models and drivers for commercialisation**  
George Day, Energy Technology Institute
- 16:10** **Panel Q&A, presentation of poster prize and wrap-up**
- 16:35** Refreshments and close

## Posters

Poster submissions are invited on the topic of R&D into capture, storage and utilisation of CO<sub>2</sub>. To make a submission, please send a 250 word abstract entitled "A New Age for Coal with CCS - poster abstract", by **4 October 2013** to [conferences@soci.org](mailto:conferences@soci.org). All submissions will be acknowledged.

## Synopsis

The International Energy Agency (IEA) states that CCS, or Carbon Capture and Storage, could reduce global carbon dioxide emissions by 19%, and that fighting climate change could cost 70% more without CCS.

In March 2013, the UK Government Department of Energy and Climate Change (DECC) announced a £1bn CCS Commercialisation Programme Competition aimed at developing technology at scale for the removal of CO<sub>2</sub> emissions from coal and gas fired power stations.

The first in a series of SCI events exploring solutions for large scale capture, storage and utilisation of CO<sub>2</sub>, this conference will provide an update on the enabling technologies for combustion and CO<sub>2</sub> capture, CCS projects underway and planned, and models and drivers for commercialisation.

Two SCI journals (published jointly with Wiley) report the latest advances in the field: Energy Science and Engineering, and Greenhouse Gases: Science and Technology.

## Attendees

This conference is intended for policy managers (re. regulatory development), academics in the field (re. market development), R&D managers, marketing and business development managers, investment decision makers and media.

## Sponsors

For sponsorship opportunities, please contact [patricia.cornell@soci.org](mailto:patricia.cornell@soci.org)

### Energy Science & Engineering



### Venue

This conference will take place at the Institute of Materials, Minerals and Mining (IOM3), 1 Carlton House Terrace, London, SW1Y 5DB.



## Information on SCI

SCI is a forward-looking multidisciplinary membership organisation connecting industry, government and academia to advance the application of science for the benefit of society.

SCI offers a network of contacts spanning the chemical and chemical-using industries, together with a rolling programme of conferences, events and prestigious awards which help further knowledge and support those involved in the sector, no matter what stage they're at in their careers.

SCI is the publisher of many well respected peer-reviewed journals and industry leader Chemistry & Industry magazine (C&I).

Join SCI today to network with people across the chemical and chemical-using industries and make connections that spark innovation, get careers moving, and sets business ideas rolling. Visit [www.soci.org/membership](http://www.soci.org/membership) to find out more and join us.



# A New Age for Coal with Carbon Capture and Storage (CCS)

7 November 2013 @ Institute of Materials, Minerals and Mining, London, UK

If you would like to become a member of SCI today, please tick the box below and you can benefit from the SCI discounted member rate on booking this conference.

I would like to become a member of SCI..... Member £90  Student £25

*Please tick appropriate box below*

- SCI/EIMember .....£200
- Academic/Charity Rate..... £100
- Students Presenting Poster.....£75
- Non-Member .....£260

Membership number (if applicable).....

Surname ..... First Name.....

Title Mr/Mrs/Dr/Prof/Other .....Position .....

Organisation .....

Address .....

..... Postcode.....

Tel.....

Email .....

Special requirements: (dietary/access/other) .....

Signature .....Date .....

There are 3 ways to pay:

1. Online at [www.soci.org/events](http://www.soci.org/events)
2. Cheques made payable to 'SCI' should be drawn in GB£ and enclosed with form
3. Credit Card. Please debit £..... from my Mastercard/ Visa/ Amex (please circle)

<input type="checkbox"/>																			
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Card Expiry Date   /   Signed.....

Please return completed forms to:

SCI Conference Dept, 14/15 Belgrave Square, London, SW1X 8PS

T: +44 (0) 20 7598 1561; F: +44 (0) 20 7235 7743; E: [conferences@soci.org](mailto:conferences@soci.org)

**Cancellations:** Received in writing 1 to 3 weeks prior to the meeting will be subject to a 20% administration charge. Refunds cannot be made for cancellations received after this period although substitutions may be made. Should unforeseen circumstances occur, SCI reserves the right to alter the content of the programme and cancel or postpone any of its meetings without notice or, in the case of complete cancellation, liability to enrolled delegates other than return of fees.

**Data Protection:**The personal information included on this form will be used by SCI only and will not be disclosed to any third parties. Please tick if you do not wish to be sent details of any future similar meetings or other SCI services.

Register online at: [www.soci.org/events](http://www.soci.org/events)