

UKCCSRC Strathclyde Biannual Meeting,
8-9 September 2015

UKCCSRC update and future funding opportunities

Jon Gibbins, Director

The UKCCSRC is supported by the
Engineering and Physical Sciences Research
Council as part of the Research Councils UK
Energy Programme

6 Month Extension

- One more Biannual Meeting!
- Late summer 2017:
 - Scientific conference
 - Policy meeting

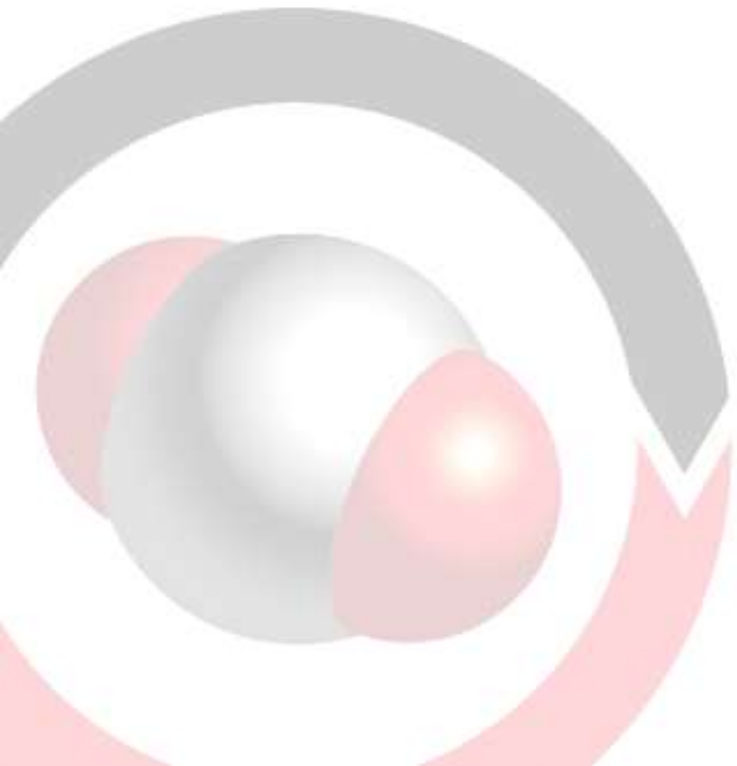
Watch this space...



Call 2 for PACT running days



- Outcome of 1st call due soon
- 2nd call will be launched on 18 September for people who have not applied so far



UKCCSRC Call 1 and 2 project outputs



Outputs generated through UKCCSRC events (posters and presentations from biannual and other meetings), plus other reported project outputs, added to Call 1 and 2 project pages on the UKCCSRC website.

A screenshot of a web browser displaying the UKCCSRC website. The page title is "FLEXIBLE CCS NETWORK DEVELOPMENT (FLECCSNET)". The page content includes a description of the project, workshop details, and a list of project outputs. The UKCCSRC logo and navigation menu are visible at the top. The browser address bar shows the URL: https://ukccsrc.ac.uk/resources/ccs-projects-directory/flexible-ccs-network-development-fleccsnet.

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FLEXIBLE CCS NETWORK DEVELOPMENT (FLECCSNET)

This project will produce and disseminate the first design and operating guidelines for the flexible operation of CCS pipeline networks. The research will explore how CCS pipeline networks can react effectively to short, medium and long term variations in the availability and flow of CO₂ from capture plants, as well as responding to the constraints imposed on the system by the ability (or otherwise) of CO₂ storage facilities to accept variable flow. The work will develop relevant scenarios for modelling the likely variability of CO₂ flow in a CCS pipeline network, develop hydraulic models of CO₂ behaviour, engage stakeholders in the process through practitioner workshops, and deliver guidelines to the industry and other interested stakeholders.

The first Flexible CCS Network Development (FleCCSnet) workshop was held on the 30th April 2014 at the University of Edinburgh, UK. It was the first of two workshops aimed to bring together leading industrialists and academic experts to discuss future scenarios of flexible CCS networks. Read the blog [here](#).

Meeting notes and a summary of scenarios have been produced from the first workshop. Read other blogs about this project, [here](#) and [here](#).

The second FleCCSNet workshop was held at Newcastle University on the 18th May 2015. The theme of the workshop was "Investigating transient pipeline operation issues" and further details are available [here](#). A blog on the event is [here](#).

Project Outputs

- [Flexibility Issues in CCS Networks: Initial Findings from the Fleccsnet Project](#). Project update presented by Hamed Aghajani, Newcastle University, at the UKCCSRC Cranfield Biannual Meeting, 22/04/2015.
- [Developing CO₂ networks: Key lessons learnt from the first Flexible CCS Network Development \(FleCCSnet\) project workshop](#). Report from the first Flexible CCS Network Development (FleCCSnet) project workshop, Edinburgh, 30/04/2014.
- [Developing CO₂ networks: Scenarios building on the first Flexible CCS Network Development \(FleCCSnet\) project workshop](#). Report from the first Flexible CCS Network Development (FleCCSnet) project workshop, Edinburgh, 30/04/2014.
- See bottom of page for project blogs.

Main project funder category:	UKCCSRC - Call 1
Funder name:	UKCCSRC
Grant number:	UKCCSRC-C1-40

UKCCSRC Data and Information Archive



Outputs generated through UKCCSRC events (posters and presentations from biannual and other meetings) added to UKCCSRC Data and Information Archive for Call 1 and 2 and recent EPSRC projects. Data from some Call 1 projects added – thank you! Reports from FEED studies and other important historical reports also added.

A screenshot of the UKCCS Research Centre website. The browser address bar shows "www.bgs.ac.uk/ukccs/projects.html". The page header includes the UKCCS logo and the text "The UKCCSRC is supported by the EPSRC as part of the RCUK Energy Programme". A navigation menu contains links for "home", "about", "how to submit data", "search", "projects", "people", and "keywords". Below the menu, a red banner displays "A-Z list of 43 projects with datasets available". A filter box shows "Filter: [input field with 'www.3 characters'] show". The main content area lists seven projects, each with a numbered red square icon and a list of associated reports or documents.

- 1** CO₂ Aquifer Storage Site Evaluation and Monitoring (CASSEM)
 - Understanding the challenges of CO₂ storage: results of the CASSEM Project
 - New insights from 3D geological models at analogue CO₂ storage sites in Lincolnshire and eastern Scotland, UK
 - Illustrations of geological framework & models, reservoir and seal mineralogy research by BGS for WPI CASSEM project
- 2** CO₂Geohel: Network of Excellence on CO₂ Geological Storage
 - CO₂Geohel Paper: Carbonation of borehole seals: Comparing evidence from short-term laboratory experiments and long-term natural analogues
- 3** E.ON UK Carbon Capture & Storage Front End Engineering and Design
 - E.ON UK Carbon Capture & Storage Front End Engineering and Design (FEED) - Chapters 01 - 03: Executive Summary
 - E.ON UK Carbon Capture & Storage Front End Engineering and Design (FEED) - Chapter 04: Project Design
 - E.ON UK Carbon Capture & Storage Front End Engineering and Design (FEED) - Chapter 05: Technical Design: Carbon capture and compression plant
 - E.ON UK Carbon Capture & Storage Front End Engineering and Design (FEED) - Chapter 06: Technical Design - Pipeline and Platform
 - E.ON UK Carbon Capture & Storage Front End Engineering and Design (FEED) - Chapter 07: Technical Design: Well and Storage
 - E.ON UK Carbon Capture & Storage Front End Engineering and Design (FEED) - Chapter 08: Health and Safety
 - E.ON UK Carbon Capture & Storage Front End Engineering and Design (FEED) - Chapter 09: Environment and Current
 - E.ON UK Carbon Capture & Storage Front End Engineering and Design (FEED) - Chapter 10: Project Management Reports
- 4** EPSRC Project: Organic Mixed Matrix Membrane Technologies (ORGMEMT) for Post-Combustion CO₂ Capture
- 5** EPSRC Project: The impact of hydrocarbon depletion on the Treatment of cApracks within performance assessment for CO₂ injection schemes - CONTAIN
- 6** EPSRC Project: DISELCS: Diagnostic Seismic toolbox for the Efficient Control of CO₂ Storage
- 7** EPSRC Project: Fingerprinting captured CO₂ using natural tracers: Determining CO₂ fate and proving ownership

UKCCSRC Learning Resources and Updates



Materials generated through UKCCSRC activities have been brought together as a resource for anyone with an advanced interest in CCS, from taught course students to researchers. Tell your students! Found under the “Resources” tab on the UKCCSRC website.

A screenshot of a web browser displaying the UKCCSRC Learning Resources and Updates page. The browser address bar shows the URL https://ukccsrc.ac.uk/ukccsrc-learning-resources-and-updates#overlay-context=. The page header includes navigation tabs like "My Workbench", "Content", "Structure", "People", "Configuration", and "Reports". A user is logged in as "Hello F. Campbell" with a "LOGOUT" button. The main content area features a large image of an open book with a red cover, overlaid with a dark banner containing the text "UKCCSRC LEARNING RESOURCES AND UPDATES". Below the banner, there is a paragraph of text explaining the purpose of the resource and providing contact information. At the bottom, there are three white boxes with red "READ MORE" buttons, labeled "CCS RESEARCH", "EXAMPLES OF CCS IN PRACTICE", and "BACKGROUND AND SCENE-SETTING TO CCS".

UKCCSRC Learning Resources and Updates - example



The screenshot shows a web browser window with the URL <https://ukccsrc.ac.uk/capture-research>. The page has a navigation bar with links for "My Workbench", "Content", "Structure", "People", "Configuration", and "Reports". The user is identified as "Hello F. Campbell" and has a "Log out" option. Below the navigation is a header image of industrial pipes with the text "CAPTURE RESEARCH".

This page brings together Capture research content generated through UKCCSRC activities. Please click on titles below to access materials.

CONTENT	TYPE	DATE
UKCCSRC Call 1 Capture projects	Webpage	-
UKCCSRC Call 2 Capture projects	Webpage	-
CCS in Energy Intensive Industries	Biannual technical session	22/04/2015
Novel Capture Technologies	Biannual technical session	21/04/2015
UK-Norway-Canada CO2 Capture Meeting	Research update	18/03/2015
Air Capture Workshop	Specialist meeting	12/02/2015
Natural Gas CCS Network Meeting at GHGT-12	Specialist meeting	07/10/2014
Natural Gas CCS	Biannual technical session	11/09/2014
Biomass CCS	Biannual technical session	10/09/2014
Gas CCS Meeting	Specialist meeting	25/06/2014
Solid Adsorption	Biannual technical session	03/04/2014
Direct Air Capture/Negative Emissions Workshop	Specialist meeting	18/03/2014
Truly Clean, Substantially Cheaper Energy (Rodney Alam, NET Power)	Seminar	23/01/2014
Capture session (Nottingham Biannual Meeting)	Biannual technical session	05/09/2013

Member profiles on the UKCCSRC website – add a link to your publications list



J. Gibbins | UKCCS Resear... x


← → ↻ 🏠 <https://ukccsrc.ac.uk/membership/member/jon-gibbins>

Apps <https://www.gov.uk/...> [OpenDOAR - Home...](#)

🏠 My Workbench Content Structure People Configuration Reports 0 / 1 👤 Hello F. Campbell Log out

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Prof Jon Gibbins



Jon is the Centre Director and a member of the Centre's Coordination Group and is the Research Area Champion for Solvent Post-Combustion.

Jon has worked on coal and biomass gasification and combustion for over 25 years, at Foster Wheeler, Imperial College and University of Edinburgh and on carbon capture and storage (CCS) since 2002. He is currently the Principal Investigator of the UK Carbon Capture and Storage Research Centre supported by the Engineering and Physical Sciences Research Council (EPSRC) as part of the Research Councils UK Energy Programme. He is also the Professor of Power Plant Engineering and Carbon Capture at the Institute for Materials and Processes based at the University of Edinburgh. He is involved in a number of other academic, industrial and government initiatives on CCS in the UK and overseas, including the DECC Advisory Committee on Carbon Abatement Technology, and has also contributed to a number of media pieces and other outreach activities on CCS.

Home institution:	University of Edinburgh
Research group:	Capture
Job title at UKCCSRC:	Director
Member type:	Coordination Group member, Research Area Champion, Academic member
Publications list:	http://www.research.ed.ac.uk/portal/en/persons/jon-gibbins(a9711c78-fd47-48ef-90...

MY RELATED CONTENT

Member profiles on the UKCCSRC website – add a link to your publications list



A screenshot of a web browser displaying the UKCCSRC membership page for Jon Gibbins. The browser address bar shows the URL https://ukccsrc.ac.uk/membership/member/jon-gibbins. The website header includes navigation links like "My Workbench", "Content", "Structure", "People", "Configuration", and "Reports". A secondary navigation bar contains "ABOUT", "NEWS & EVENTS", "RESEARCH", "BLOG", "RESOURCES", "MEMBERSHIP", and "MEMBERS AREA" (highlighted in red). The main content area is divided into two columns. The left column features a profile picture of Jon Gibbins wearing an orange hard hat and safety vest, followed by a form with labels for "Home institut", "Research grou", "Job title at UK", "Member type", and "Publications li". The right column lists various actions under the "MEMBERS AREA" header, including "LOGOUT", "UPDATE MY PROFILE", "CHANGE PASSWORD", "FILE BROWSER", "SUBMIT NEWS AND EVENTS", "ADD NEWS", "ADD AN EVENT", "ADD A BLOG POST", "SUBMIT OTHER CONTENT", "SUBMIT A RESEARCH FACILITY", "SUBMIT A PEER REVIEWED PUBLICATION", "SUBMIT A PROJECT", "SUBMIT A RELATED WEBSITE", "APPLICATION - ECR INTERNATIONAL EXCHANGE FUND - CALL 4", "APPLICATION - FLOW AND TRANSPORT FOR CO2 STORAGE SPECIALIST MEETING", "APPLICATION - GEOPHYSICAL MODELLING FOR CO2 STORAGE, MONITORING AND APPRAISAL", "REVIEW SUBMISSIONS", "VIEW DOCUMENTS", "GENERAL PAPERS", "BOARD PAPERS", "INDEPENDENT ADVISORY PANEL PAPERS", "CG MEETING PAPERS", "CG MEETING MINUTES", and "EVENT PROPOSALS". The browser's address bar at the bottom shows the URL https://ukccsrc.ac.uk/members-area/my-profile.