



**MEETING SUMMARY**

CCS in the Academic Community Task Force Meeting  
London, United Kingdom  
11 October 2009

Prepared by the CSLF Secretariat

**LIST OF ATTENDEES**

Australia: Clinton Foster  
Japan: Tomohiro Sembongi  
Mexico: José González  
United Kingdom: Bronwen Northmore  
United States: Robert Gentile, Judd Swift  
IEA: Brendan Beck  
IEA GHG: Tim Dixon (Acting Task Force Chairman)  
CSLF Secretariat: Christopher Babel, Rhiannon Davis, John Panek

**1) Welcoming Remarks**

Tim Dixon welcomed the attendees and stated that he would be filling in as Task Force Chair for Marcelo Ketzer of Brazil, who could not be in attendance.

**2) Review and Approval of Summary from San Francisco Task Force Meeting**

The summary from the initial meeting of the Task Force, on 30 June 2009 in San Francisco, were approved as final with no changes.

**3) Review and San Francisco Meeting Action Items**

Tim Dixon provided a brief update on the four action items from the San Francisco meeting:

<b>Item</b>	<b>Status</b>
Invite Brendan Beck of IEA to join Task Force.	Complete. Mr. Beck was in attendance.
Develop survey of existing academic CCS programs.	Survey is underway. Regional reports on the Americas and U.K. are in progress.
Determine points of contact for CCS programs at universities.	Not yet started.
Develop ideas for CSLF Ministerial meeting with focus on exhibits.	This became responsibility of the CSLF Projects Interaction and Review Team.

#### **4) Update on Regional Reports**

Tim Dixon briefly reviewed the status of two regional reports on CCS in academia. Both the report on the United Kingdom and the report on the Americas are still in early draft stage, and the Americas report does not yet identify any dedicated CCS curricula. John Panek remarked that most likely there are no dedicated programs for CCS but just components, while José González noted that in Mexico, there are no degrees in CCS but there are CCS courses in geology. Robert Gentile suggested that Dr. Ketzer, who is author of the Americas report, contact the United States Regional Carbon Sequestration Partnerships (RCSP) or the National Energy Technology Laboratory (NETL) for information about CCS in United States colleges and universities.

There was discussion on the possibility of additional reports covering other parts of the world. Mr. Gentile stated one could be done for the remainder of Europe, as there may be academic programs in France, Spain, and Sweden. As for Asia, Tomohiro Sembongi stated that there is no academia programs on CCS in Japan, but Mr. Gentile noted that NETL may be able to provide information on CCS programs in Chinese universities. Mr. Dixon mentioned that he has contacts at Kyoto University and would ask them to initiate a survey. Clinton Foster noted there are CCS programs in Australia at the University of Adelaide, University of New South Wales, University of Queensland, University of Melbourne, and the University of Curtin, the last two being supported by Australia's Cooperative Research Centre for Greenhouse Gas Technologies (CO2CRC). There was agreement that two additional regional reports should be prepared, covering the European Union and Australia.

Judd Swift questioned if the intent of these reports was to develop materials for a university curriculum. Mr. Dixon stated that next steps will be decided once the reports are finalized, and that these reports are currently intended to identify gaps. Mr. Panek stated that any database produced by this Task Force will be a tool for students to use as a directory to find CCS courses. Mr. Dixon stated once the regional reports are complete (including review by Task Force members and possible peer review) they would be available at the CSLF website. Dr. Ketzer will develop the summary of these reports that will also be made available at the CSLF website.

#### **5) Other Business**

Clinton Foster stated that the Working Group on Student Body Initiative, which is a subgroup to this Task Force, was making progress. Tim Dixon mentioned that the IEA Greenhouse Gas R&D Programme (IEA GHG) had agreed to develop a website for use by the Working Group.

There was discussion on the types of academic programs the Task Force should be targeting and the approach that should be used. Brendan Beck noted that an IEA report did not list any undergraduate courses and inquired if only Masters and Doctorate programs were currently of interest. Mr. Beck suggested that there is a potential for abbreviated one week courses that could introduce CCS at the undergraduate level. Robert Gentile agreed with this idea and stated that if an interest can be created at the undergraduate level, this could lead to creation of formalized CCS academic programs. Mr. Gentile also mentioned that there are modules (e.g., materials from an IEA GHG summer school on CCS, CSLF capacity building materials, etc.) that could be used for this proposed introductory course. Judd Swift agreed

that CSLF capacity building materials could be utilized, but permissions for use would be needed from the authors of these materials. Mr. Beck stated that it might be better if the CSLF bring together professors and provide them with the training material. Mr. Gentile agreed with this concept and stated that it is better to train the trainers, not the students. There was agreement that this could be a Phase 2 activity for the Task Force after the regional reports are complete.

There was also discussion on how this Task Force fits into the overall CSLF plan. Bronwen Northmore inquired if this Task Force has a working relationship with the Capacity Building Task Force. John Panek stated that currently there is not much linkage since this Task Force is just getting off the ground. Mr. Gentile stated that the two task forces do not necessarily have the same audience and noted that the Capacity Building Task Force is targeted towards toward policy makers as much as researchers and students. Mr. Swift stated that the Task Force should consider developing a relationship with Communications Task Force because it could be possible to introduce the concept of CCS to grade school students and the skills of the Communications Task Force would be useful in that regard.

**6) Closing Remarks**

Tim Dixon thanked everyone for their participation and said he would inform Task Force Chairman Ketzer of the discussions.

**ACTION ITEMS ARISING FROM TASK FORCE MEETING**

<b>Item</b>	<b>Responsibility</b>
Determine points of contact for CCS programs at universities.	Technical Group delegates. (Secretariat will follow up.)
Complete United Kingdom regional report on CCS in the academic community	TBD. (Tim Dixon and Secretariat will follow up.)
Complete Americas regional report on CCS in the academic community	Marcelo Ketzer. (Secretariat will follow up.)
Develop European Union regional report on CCS in the academic community	TBD. (Secretariat will follow up.)
Develop Australia regional report on CCS in the academic community	TBD. (Clinton Foster and Secretariat will follow up.)