



Welcome! This issue reports on the progress of the past six months of the CAGS project, which is funded by the Australian Government and is jointly managed by Geoscience Australia (GA) and the Administrative Centre for China's Agenda 21 (ACCA21).

Since February 2014, we have completed the 2<sup>nd</sup> technique workshop and the 2<sup>nd</sup> training school, finalised four research projects and supported nine exchange programs. We are in the last stage of CAGS phase II and have been busy preparing the project's knowledge sharing report. Recently we have conducted surveys to understand the project's impacts and achievements from the participants' perspectives. Later we will hold a small workshop in China to further discuss the project's impacts and to discuss possible future collaboration with main participating organisations.

For more detailed information on CAGS, please see our website [www.cagsinfo.net](http://www.cagsinfo.net). To unsubscribe, please email us at [info@cagsinfo.net](mailto:info@cagsinfo.net).

## UPDATES ON PROGRAM 1: WORKSHOPS AND SCHOOLS

### Workshop 2, May 2014, Shanghai

CAGS2 Workshop 2 was hosted by the Shanghai Advanced Research Institute in Shanghai from 11 to 13 May 2014. It was attended by approximately 50 delegates from China, Australia, US and UK.

The workshop covered various aspects of the geological storage of CO<sub>2</sub> and a session was dedicated to reporting on the five CAGS-funded research projects.



This event was successful in bringing together Chinese and international researchers and providing updates on storage projects (experimental as well as demonstration) being conducted around the world.

### School 2, May 2014, Nanjing

CAGS2 CCS Training School 2 was hosted by the Productivity Centre of Jiangsu Province in Nanjing, China from 14 to 17 of May 2014.

The training school was attended by 50 delegates, including 30 students and 20 experts. Several students expressed openly that they gained valuable knowledge from the school. One student commented the training school made her realise that CCS technology was no longer “pie in the sky”, as it has been considered as one of the solutions to deal with climate change. While the students appreciated this opportunity to learn directly from CCS experts, the presenters were impressed by the students’ enthusiasm and innovative ideas.



**UPDATES ON PROGRAM 2: EXCHANGE SCHOLARSHIPS**

**1. Ms Shu Wang: 7 Apr – 4 Jul 2014**



Shu Wang, a post-doctoral researcher from the Institute of Geology and Geophysics, Chinese Academy of Sciences, worked in the Peter Cook Centre for CCS Research at the University of Melbourne. She studied the relationship between mineral composition and property of the rock and contributed to a larger research project led by Professor Haese in the centre.

**2. Mr Xiaocheng Wei: 7 Apr – 4 Jul 2014**

Xiaocheng Wei, a PhD student from the Institute of Rock and Soil Mechanics, Chinese Academy of Sciences, undertook training in the Earth Systems Science Computational Centre at the University of Queensland. He analysed the risk of induced seismicity by CO<sub>2</sub> injection, studying data from the Ordos Basin in China. His research also examined the effects of a variety of controlling factors for fault reactivity and relative magnitude of seismicity.



**3. Dr Yinxiang Cui: 1 Jun - 30 Jul 2014**



Dr. Yinxiang Cui, a researcher from the Institute of Rock and Soil Mechanics, worked with Dr Linlin Ge at The University of New South Wales on the application of InSAR techniques in monitoring ground deformation of carbon storage. He targeted the CCS Project in the Ordos Basin and the iron mine

in Hainan in China for his analysis of the advantage and disadvantage of the different monitoring techniques, evaluating the precision of the InSAR monitoring technique in the different working conditions.

#### 4. Mr Ivan Schroder: 22 Sep – 21 Oct 2014

Ivan Schroder, a geologist from Geoscience Australia, is scheduled to be placed at the Centre for Hydrogeology and Environmental Geology, China Geological Survey, to engage with the researchers and agencies conducting CCS monitoring research and pilot projects within China, and to investigate the level of technology and monitoring techniques used in Chinese projects. He will also focus on the feasibility and suitability of additional monitoring techniques at their sites, potentially leveraging off Geoscience Australia's expertise in the development of future collaborative research programs.



#### **UPDATES ON PROGRAM 3: RESEARCH PROJECTS**

CAGS2 has funded five research projects.

1. CO<sub>2</sub> Geological Storage: Target Area Selection and Evaluation Method
2. Possibility and Potential of CO<sub>2</sub> Enhanced Shale Gas Recovery in the Ordos Basin
3. Current Status and Gaps in Essential Technology, Equipment and Material for Implementing CO<sub>2</sub> Saline Aquifer Storage Projects in China
4. Key Parameters for Environmental Impact and Risk Assessment for CO<sub>2</sub> Geological Sequestration
5. Study the Carbon Dioxide Capture, Utilization and Storage Technology and design a Roadmap for Xinjiang Province in China

The first four research projects have now been completed and the reports will soon be available on the CAGS website. The 5<sup>th</sup> research project commenced in late 2013 and is on track to be finished in November 2014.

#### **UPCOMING EVENT**

Nov/Dec 2014      CAGS2 Project Summary Workshop, China