

**Australia – China Coal Mine Safety
Xuandong Mine Project
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Genesis of the project

- Mine safety remains a major problem for the Chinese coal mining industry and is a major focus for the Chinese Government.
- Safety has improved in recent years
- Australia on the other hand has one of the best mine safety records in the world
- The Australian and Chinese Governments through the Asia Pacific Partnership decided to apply Australian technology and expertise to a Chinese underground coal mine and to use that mine as a safety and health model for the Chinese mining Industry

Genesis Cont.

- Four underground coal mines selected from across China were assessed by an Australian/ China team.
- The Xuandong mine in Hebei Province was selected
- This mine has basic infrastructure and excellent training facilities.
- Importantly the management was also very keen to adopt new technology
- The Australian Government provided \$5M and the Chinese Government has contributed \$10M

宣 东 欢 迎 您

Welcome to Xuandong



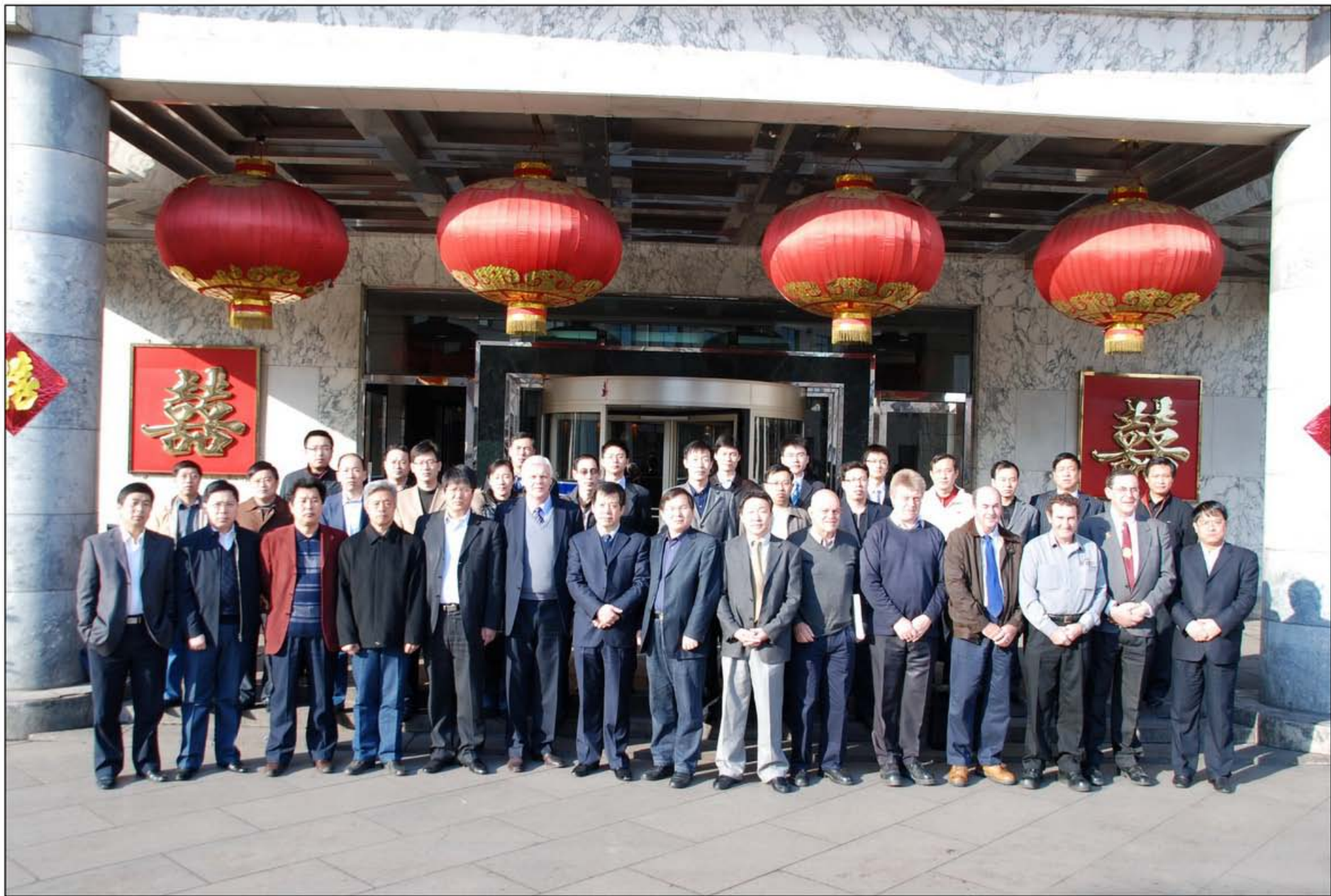
R: Ma Hui, Liu Xiaobing, Wang Ganyao, Lei Zhigang, Zhang Tianhu, Zhang Hua, Li Xuandong, Qian Jinyong, Bai Denghe, Xue Fucong
F: Jia Hongbin, Zhao Shengshan, Mark Everson, Forest Ye, Shi YanPing, Alice Gibson, Jim Galvin, Sun Weili, Wang Huaiyu

Xuandong project

- The project commenced in earnest in early 2009
- A broad brush risk assessment was carried out at the mine with training provided on the risk assessment process
- Two groups of Chinese engineers visited Australia
- The development of the Mine Safety and Health Management System is the backbone of this whole process.
- The SHMS has to engage everyone at the mine

Xuandong project

- A meeting in Beijing in April 2010 finalised the project scope.
- Work to be completed by June 30 2011
- Dissemination of the outcomes of the project will be undertaken in July-September 2011
- Two further groups of Chinese officials visited Australia in the last few months





Work Plan for 2010 – 2011

2010 – 2011

Steering committee agreed to 17 key activities:

- Safety and Health Management System (SHMS) - Frame work
- Regional Strata Control second review & workshop
- Directional drilling trial
- Ventilation modelling software
- Gas Monitoring System and software

Work Plan

- Energy isolation and lock out systems
- Stone dusting
- Local Strata Control
- Training
- Mine Safety Awareness & Education Campaign
- Road Map Post June 2012

Work plan

- Dissemination of Project Outcomes
- Mine Safety Training Base
- Basic gas analysis laboratory
- Mine nitrogen injection for fire control
- Coal seam hydro-geological survey
- Underground emergency rescue stations

Work Plan Overview

For each of these activities/ technologies the team will develop;

- Safety and Health Management Plans,
- Standard Work Practices (SWP),
- Trigger Action Response Plans (TARP's)

Project Outcome

The overall objectives of the project and these 17 activities is to:

- To improve safety at the mine;
- To provide a model for achieving mine safety and health improvements at other Chinese coal mines, and
- To strengthen co-operation between Australia and China on coal mine safety issues.




















**Every miner home safe and
healthy every day**