

# **International Workshop on “Seismicity near the Hutubi Underground Gas Storage and Mechanism of Induced Earthquakes”**

**Date: 26-27 March, 2018**

- 3. 26: Hutubi project meeting (in Mandarin)
- 3. 27: International workshop of "Mechanism of Induced Earthquakes"

***Venue: Conference Room, 3/F, Mong Man Wai Building,  
The Chinese University of Hong Kong***

**Organizers:**

- 1. Hongfeng Yang, Teng-fong Wong, Lin Liu  
Earth System Science Programme, CUHK**
- 2. Baoshan Wang,  
Division of Experimental Geophysics, Institute of  
Geophysics, China Earthquake Administration**

# Workshop Agenda

<b>Day 1 Mar. 26, 2018</b>			
<b>9:00-12:00 noon. Hutubi Project Meeting Presentations (in Mandarin).</b> 呼图壁项目组报告 (中文) <b>Venue: Conference Room, 3/F, MMW, CUHK</b>			
<b>Time</b> 时间	<b>Title</b> 题目	<b>Speaker</b> 报告人	<b>Affiliation</b> 所属机构
9:00-9:20	"Hutubi underground gas storage three-dimensional spatio-temporal deformation and injection pressure changes in the mechanism of research" project progress report 呼图壁地下储气库三维时空形变与注入压力变化机理研究“项目进展情况报告	Xiaoqiang Wang 王晓强	Earthquake Agency of Xinjiang Uygur Autonomous Region, China 新疆维吾尔自治区地震局
9:20-9:40	The analysis and evaluation of groundwater between withdrawing and recharging in the Underground Gas Storage Reservoir of Hutubi 呼图壁地下储气库地区地下水抽水和补给的分析与评价	Jie Li 李杰	Earthquake Agency of Xinjiang Uygur Autonomous Region, China 新疆维吾尔自治区地震局
9:40-10:00	Poroelastic analysis of cyclic gas injection and extraction of the Hutubi gas reservoir 呼图壁气田循环注气与采气的孔隙弹性分析	Guoyan Jiang 江國焰	The Chinese University of Hong Kong 香港中文大学
10:00-10:20	Effect of the cyclic pore pressure on rock physical properties 循环孔隙压力作用下砂岩的物性变化	Lili Song 宋丽莉	Institute of Geophysics, China Earthquake Administration 中国地震局地球物理研究所
<b>10:20-10:40</b>	<b>Tea break</b>		
10:40-11:00	Monitor the velocity variation of underground medium around the Hutubi underground gas storage using air-gun source 新疆呼图壁大容量气枪震源部分工作进展	Jinbo Su 苏金波	Earthquake Administration of Xinjiang Uygur Autonomous Region, China 新疆维吾尔自治区地震局

11:00-11:20	Primary analysis of the waveform data from the Hutubi airgun experiment 呼图壁气枪数据波形初步分析	Wen Yu 于雯	University of Science and Technology of China 中国科学技术大学
11:20-11:40	Investigations of potentially induced seismicity near Hutubi underground gas storage 呼图壁储气库附近潜在诱发地震的研究	Pengcheng Zhou 周鹏程	The Chinese University of Hong Kong 香港中文大学
11:40-12:00	The crustal deformation monitoring of Hutubi Underground Gas Storage, XinJiang of China by PS-InSAR 对中国新疆呼图壁地下储气库的地壳形变监测	Wei Chen 陈威	Institute of Seismology, China Earthquake Administration 湖北省地震局（中国地震局地震研究所）
<b>14:00-16:00 p.m. Group discussion</b>			
<b>Time</b> 时间	<b>Group</b> 项目组	<b>Meeting venue</b> 地点	
14:00-16:00	Seismology 地震学	Conference Room, 3/F, MMW, CUHK	
14:00-16:00	Rock physics, Modelling and geodesy 岩石物理实验, 数值模拟和大地测量学	Room 309, MMW, CUHK	
<b>16:00-16:20</b>	<b>Tea break</b>		
16:20-18:00	Campus tour		

<b>Day 2 Mar. 27, 2018</b>			
<b>9:00 a.m.-16:40 p.m. International Workshop on Induced Earthquakes.</b>			
<b>Venue: Conference Room, 3/F, MMW, CUHK</b>			
<b>Time</b>	<b>Title</b>	<b>Speaker</b>	<b>Affiliation</b>
9:00-9:05	Opening remarks	Teng-fong Wong	The Chinese University of Hong Kong
9:05-10:00	How Faults Wake Up: Insights from Induced Earthquakes	William L. Ellsworth	Stanford University
10:00-10:40	Multicomponent elastic imaging: new insights from the old equations	Yunyue Elita Li	National University of Singapore
<b>10:40-11:00</b>	<b>Tea break</b>		
11:00-11:40	Multi-disciplinary investigation on the Hutubi underground gas storage	Baoshan Wang	Institute of Geophysics, China Earthquake Administration
11:40-12:00	Open discussion		
14:00-14:40	Near surface velocity structure and its temporal changes in the Hutubi Gas Storage region	Huajian Yao	University of Science and Technology of China
14:40-15:20	Preliminary results from the Weiyuan Shale Gas Reservoir Seismic Experiment	Risheng Chu	Institute of Geodesy and Geophysics, CAS
<b>15:20-15:40</b>	<b>Tea break</b>		
15:40-16:20	Crustal Structure and Earthquakes near the Xinfengjiang Water Reservoir	Hongfeng Yang	The Chinese University of Hong Kong
16:20-16:40	Open discussion		