

ASIA PACIFIC ECONOMIC COOPERATION (APEC)

2013 APEC WORKSHOP ON GEOTHERMAL ENERGY DEVELOPMENT

NTUH International Convention Center, Taipei Chinese Taipei

25 th - 26 th June, 2013

INTRODUCTION:

Geothermal energy is green, renewable, and sustainable. Due to its stable output, geothermal power can serve as an ideal base-load, as opposing to wind and solar energies which are intermittent. Many of the APEC Economies are located at the Pacific Ring of Fire that possesses abundant geothermal potential. To assist exploiting this renewable resource, we are organizing this workshop with the attempt to serve as a pivotal step in gathering international capacities and in providing a surging momentum in geothermal development in APEC region.

PROGRAM REVIEW:

Date	6/25 (Tue.)	6/26(Wed.)
AM	Geothermal Status and Perspectives (Session I)	Enhanced Geothermal System Technologies (Session III)
PM	Geothermal Exploration and Assessment (Session II)	

Version: ITRI--2013-06-18 Page 1 EGNRET



AGENDA: DAY-1 25TH (Tuesday)

Time	AGENDA: DAY-125 (Tuesday) Agenda	Chair	
09:00 - 09:05	Opening Remarks		
09:05 - 09:15	Welcome Remarks		
09:15 - 09:25	Welcome Remarks		
	Keynote Speech:		
09:25 - 09:55	Worldwide Geothermal Utilization		
	(John Lund, Previous President of International Geothermal Association, USA)		
09:55 - 10:10	Break		
	Presentation I-1		
	Recent Advances in US Geothermal R&D, with Implications for		
10:10 - 10:35	Global Development		
	(Douglas Hollett, Department of Energy, USA)		
	Presentation I-2		
10:35 - 11:00	A Short History of 60 Years of Geothermal Development in New		
10:35 - 11:00	Zealand		
	(Brian Carey, Institute of Geological and Nuclear Sciences Limited, NZ)	BOE, TPE	
	Presentation I-3	JinSheng Su	
11:00 - 11:25	Perspective on Geothermal Energy in Japan: Beyond Great East		
11.00 11.23	Japan Earthquake		
	(Noriyoshi Tsuchiya, Tohoku University, JPN)		
	Presentation I-4		
11:25 - 11:50	Taiwan Geothermal Status and Perspectives		
	(Shoung Ouyang 歐陽湘,ITRI GEL, TPE)		
11:50 – 12:10	Q&A		
12:10 – 13:10	Lunch		
	Presentation II-1		
13:10 – 13:35	DOE's Innovative Exploration Technologies Program associated	NSC, TPE	
10.10	with Conventional Geothermal Systems	Hongey Chen	
	(Patrick F. Dobson, Lawrence Berkeley National Laboratory, USA)		
13:35 – 14:00	Presentation II-2		
	Environmental Anxiety Meets Geothermal Energy		
	(Susan Petty, AltaRock Energy, Inc, USA)		
14·00 = 14·25	Presentation II-3		



EGNRET

	Geothermal Power Plant Development	
	(Kevin Wallace, Power Engineers, Inc, USA)	
14:25 - 14:40	Break	
14:40 – 15:05	Presentation II-4	
	Application of Geoscience for Geothermal Resource Evaluation	
	and Mitigation of Development Risks	
	(Greg Bignall, Institute of Geological and Nuclear Sciences Limited, NZ)	
	Presentation II-5	
15:05 – 15:30	Precise Repeat Gravity Measurement for Estimation of Mass	
	Balance in a Geothermal Reservoir	
	(Yasuhiro Fujimitsu, Kyushu University, JPN)	
15:30 – 15:55	Presentation II-6	
	Exploration for Geothermal Energy - Some Insights	
	(Brian Carey, Institute of Geological and Nuclear Sciences Limited, NZ)	
15:55 – 16:20	Presentation II-7:	
	Role of Geology in Targeting Permeability for Geothermal	
	Resource Utilization	
	(Greg Bignall, Institute of Geological and Nuclear Sciences Limited, NZ)	
16:20 – 16:40	Q&A	



DAY-2 26TH (Wednesday)

Time	Agenda	Chairman
09:00 - 09:10	Welcome Remarks	
09:10 - 09:35	Presentation III-1 Well Construction Technology Efficiencies - Research Efforts of the United States Department of Energy, Geothermal Technologies (Stephen J. Bauer, Sandia Lab, USA)	
09:35 - 10:00	Presentation III-2 Enhanced Geothermal Systems - DOE Field Demonstration Projects, R&D Innovations, and Roadmapping Efforts (Patrick F. Dobson, Lawrence Berkeley National Laboratory, USA)	
10:00 - 10:25	Presentation III-3 Innovative Stimulation Technology for Future Energy - More with Less (Hai Liu 劉海, Schlumberger Inc., USA/China)	ITRI-GEL, TPE Shoung, Ouyang
10:25 - 10:35	Break	Cayang
10:35 - 11:00	Presentation III-4 Description and Application of the US DOE Induced Seismicity Protocol/Best Practices: Experiences and Lessons Learned at The Geysers Geothermal Field, California (Ernest L. Majer, Lawrence Berkeley National Laboratory, USA)	
11:00 - 11:25	Presentation III-5 Risk in EGS Project Development (Susan Petty, AltaRock Energy, Inc, USA)	
11:25 - 11:45	Q&A	
11:45 - 12:00	Closing Remark	_