

Central and South American Workshop on Geothermal Energy

18th and 19th April 2016

**IEA Geothermal
International Technology Collaboration Program**

www.iea-gia.org



Instructions

- Presentations are in pdf format and are hyperlinked from this pdf
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Day 1 - Welcome and Introduction

- Welcome
 - Efraín Villanueva Arcos
- IEA Geothermal – Introduction and Overview
 - [Dr. Lothar Wissing](#)
Chairman IEA Geothermal
- Perspectiva oficial sobre el futuro de la Geotermia en México
 - [Efraín Villanueva Arcos](#)



Session 1: Potential and political importance of Geothermal Direct Use

- Overview and Opportunities of Geothermal Direct Use
 - [Dr. Katharina Link](#) and [Brian Carey](#)
- Direct use for Heating and Cooling in Germany
 - [Dr. Rolf Bracke](#)
- Estudio de mercado para la aplicación de bombas de calor geotérmicas en México
 - [Dr. Alfonso García Gutiérrez](#)



Session 2 - Munich, Germany

Megacity 100 % Renewable District Heating and Cooling

- Deep Geothermal District Heating in Munich – from Vision to Realization
 - [Dr. Christian Hecht](#)
- Geothermal Heat of the Bavarian Molasse Basin (Germany) for district heating and power supply: project management, risk mitigation, costs and lessons learnt
 - [Neil Farquharson](#)



Session 3: Geothermal Heat Pump Systems Opportunities and Benefits

- Heating and cooling with Ground Source Heat Pumps in Korea

Case histories and lessons learned

– [Dr. Yoonho Song](#)

- Possible Solutions for more intensive use of GSHP Systems in Japan

– [Kasumi Yasukawa](#)

- Use of direct geothermal heat in Norway, a country with apparently "little geothermal potential"

– [Jiri Muller](#)



Session 4 Smart applications

Underground storage, agriculture and industry

- Minimization of primary energy consumption and CO2 emissions by smart geothermal applications

Examples from Switzerland

- [Dr. Katharina Link](#) and Matthias Kolb
- Retos del uso de la energía geotérmica en la agricultura: El caso de la deshidratación de alimentos
 - [Dr. Julio Vargas Medina](#)
- Smart geothermal direct use applications in agriculture and industry
 - [Brian Carey](#)



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Day 2
Tuesday 19th April 2016



Innovation in Geothermal Technology: Introduction and Framework

- Day 2 - Welcome
 - Dr. Lothar Wissing
 - [David Nieva – Brochure in Spanish in Preparation](#)
- Introduction to innovation and emerging technologies
 - [Brian Carey](#)
- Financial framework for project related innovations
 - [Xavier Perezcano](#)



Session 1: Innovative Drilling Technologies

- Innovative Drilling Technologies
 - [Dr. Rolf Bracke](#)
- Innovative Drilling and Production Technology for Deep Geothermal Wells
 - [Jörg Lehr](#)
- ThermoDrill – Fast Track Innovative Drilling System for Deep Geothermal Challenges
 - [Dimitra Teza](#)
- Drilling Technology Development for Supercritical Geothermal Resources in Japan
 - [Dr. Shigemi Naganawa](#)



Session 2: New and innovative projects

- Portfolio of innovation projects of CEMIE-Geo
 - [Dr. José Manuel Romo](#)
- Aprovechamiento de pozos geotérmicos con presencia de HCl (acidez) en su fluido de producción
Utilization of geothermal wells with HCl fluids.
 - [Heber Diez León](#)
- Deep roots of geothermal systems
 - [Chris Bromley](#)



Session 3: Enhanced Geothermal Systems

- Estimación de los recursos de Roca Seca Caliente en México
 - [Dr. Eduardo Iglesias](#)
- El enorme potencial y los retos de los EGS multi-fractura
 - The enormous potential and the challenges of multi-stage EGS
 - [Peter Meier](#)
- EGS Technology
 - [Dimitra Teza](#)



Closing Remarks

- Lothar Wissing
 - IEA Geothermal Chair

