

# GRC Recognizes Presentation, Poster and Photography Excellence

by John Galbraith

The Geothermal Resources Council (GRC) recently announced individual honors for outstanding presentations, posters and photography during the 2010 GRC Annual Meeting in Sacramento. Congratulations to the following honorees:

## Outstanding Technical Session Presentations

(awarded by Session Chair)

### MONDAY AFTERNOON, October 25th

- **Heat Pump/Direct Use 1 – Geothermal Use of Warm Tunnel Waters – Principles and Examples from Switzerland**, Rybach, Ladislaus
- **Heat Pump/Direct Use 2 – Efficiency of Vertical Under Varied Soil Moisture Content Conditions: Laboratory Experiments**, Sledz, Dana & Nakagawa, Masami & Sakaki, Toshihiro
- **The Geysers 1 – A History of The Geysers Geothermal Field Through 1960**, Hodgson, Susan Fox
- **The Geysers 2 – Biological Hydrogen Sulfide Abatement in Geysers Geothermal Cooling Towers**, Sonnevile, Allen & Benn, Brian
- **Geology 1 – Sinter Architecture and Dating: Establishing Hot Spring Paleo-Flow Conditions and Locating Possible Hidden Geothermal Resources**, Lynne, Bridget Y.
- **Geology 2 – Young Walker Basin Faults Provide New Insights into Structural Relations Controlling Geothermal Potential at the Hawthorne Army Weapons Depot, Central Nevada**, Bell, John & Hinz, Nick
- **Power Operations 1 – Advancements in Tracer Flow Testing; Development of Real-Time Technology for Flow and Enthalpy Measurements**, Broadus, Matthew & Katz, J. Ivan & Kunzman, Russell & Hirtz, Paul
- **Power Operations 2 – World's Largest Single Unit Capacity Geothermal Power Station: Hga Awa Purua Geothermal Power Station, New Zealand**, Muto, Toshie & Horie, Tadao

- **EGS 1 – Trusted and Efficient Land Access for Geothermal Operations (Including Induced Seismicity) – A Regulator's Perspective**, Goldstein, Barry & Bendall, Bertina & Long, Alexandra & Malavazos, Michael & Cockshell, David
- **EGS 2 – The Chemical and Thermal Stability of Proppants Under Geothermal Conditions**, McLin, Kristie & Brinton, Dan & Mandalparty, Prashanth

### TUESDAY MORNING, October 26th

- **Heat Pump/Direct Use 3 – Utilization of Closed Loop Geothermal Heat Pumps at Cellular Communication Towers**, LaBrozzi, Brandon & Dodge, Ed & Jefferson, Tester
- **The Geysers 3 – The Northwest Geysers EGS Demonstration Project Phase 1: Pre-Stimulation Prediction Coupled Geomechanical Modeling to Guide Stimulation and Monitoring Plans**, Rutqvist, Jonny & Oldenburg, Curtis M. & Dobson, Patrick & Garcia, Julio & Walters, Mark
- **Drilling 1 – Drill In Fluids to Minimize Production Zone Damage in Geothermal Wells**, Listi, Renan
- **Geophysics 1 – Geothermal Exploration Using AVIRIS Remote Sensing Data Over Fish Lake Valley, Nevada**, Littlefield, Elizabeth & Calvin, Wendy
- **Geophysics 1 – A Revised Interpretation of 3D Seismic Data, Hawthorne Army Dept., Nevada:**

## Annual Meeting Highlights: Part 2

*Fault-Basin Reflections or Sill Intrusions?* Kell-Hills, Annie & Louis, John & Kent, Graham & Pullammanappallil, Satish & Sabin, Andrew & Lazaro, Michael

- **Geophysics 2 – A Novel Geophysical Approach to Imaging Sinter Deposits and Other Subsurface Geothermal Features Utilizing Ground Penetrating Radar**, Dougherty, Amy J. & Lynee, Bridget Y.
- **Exploration 1 – Geothermal Exploration Drilling on Nevis: A Caribbean Success Story**, LaFleur, Joe & Hoag, Roland
- **Power Operations 3 – Welding Technology Solutions to Geothermal Energy Production Challenges**, Amend, Bill
- **EGS 3 – A 3D Analysis of Rock Failure Around a Hydraulic Fracture with Reference to Induced Seismicity**, Ghassemi, A. & Rawal, C.
- **EGS 4 – A Fully-Coupled, Implicit, Finite Element Model for Simultaneously Solving Multiphase Fluid Flow, Heat Transport, and Rock Deformation**, Podgorney, Robert & Huang, Hai & Gaston, Derek

### TUESDAY AFTERNOON, October 26th

- **Reservoir 1 – Classifications and Estimates Geothermal Resources and Reserves of HS Orka SW-Iceland**, Hjartarson, Arnar & Arnaldsson, Andri
- **Drilling 2 – Silica-Lime Based Hydrothermal Cements for High Temperature Geothermal Applications**, Hernandez, Rafael & Martin, Robert
- **Geology 3 – Interplay of Volcanism and Structural Control in Defining the Geothermal Systems Along the Liquine-Ofqui Fault Zone, in South-Central Chile**, Alam, Mohammad Ayaz & Sanchez, Pablo & Parada, Miguel Angel
- **Business Development – International – Selling Power to the Utility in Nicaragua**, Arguello, Alejandro
- **Case Studies – Ngatamariki Project Update**, Boseley, Catherine & Grant, Malcolm A. & Burnell, John G.B. & Ricketts, Brian

### WEDNESDAY MORNING, October 27th

- **Reservoir 2 – A 3-D Representation of the Wairakei Geothermal System (New Zealand) Using “Earth Research” Geothermal Visualization and Modeling Software**, Alcaraz, Samantha & Sepulveda, Fabian & Lane, Richard & Rosenberg, Mike & Rae, Andrew & Bignall, Greg
- **Power Operations 4 – Electricity Generation from Hydrothermal Vents**, Hiriart, Gerardo & Hernandez, Isaia
- **Geochemistry 1 – The Potential for the Use of Colloidal Crystal Quantum Dots as Tracers in Geothermal and EGS Reservoirs**, Rose, Pete & Bartl, Mike & Petty, Susan
- **Geochemistry 2 – Application of (U-TH)/He Thermochronometry as a Geothermal Exploration Tool in Extensional Tectonic Setting, The Wassuk Range, Hawthorne, Nevada**, Gorynski, Kyle E. & Stockli, Daniel F. & Walker, J. Douglas & Sabin, Andy
- **Exploration 2 – Numerical Modeling of the Nucleation Conditions of Petal-Centerline Fractures Below a Borehole Floor, A Sensitivity Study and Application to the Coso Geothermal Field**, Garza-Cruz, Tryana V. Davatzes, Nicholas
- **Exploration 3 – Lithium in Tufas of the Great Basin: Exploration Implications for Geothermal Energy and Lithium Resources**, Coolbaugh, Mark & Lechler, Paul & Sladek, Chris & Kratt, Chris
- **Business Development – Regulatory – Applicability of ASME Performance Test Codes to Geothermal Plant Performance Testing**, Kilpatrick, T.K., D.W.
- **Business Development – Risk – Review of Past Geothermal Energy Return On Energy Investment Analyses**, Mansure, A.J. (Chip)
- **EGS 5 – Co-generation Opportunities for Lower Grade Geothermal Resources in the Northeast – A Case Study of the Cornell University Site in Ithaca, NY**, Tester, Jeff & Joyce, W.S. & Brown, L. & Bland, B. & Clark, A. & Jordan, T. & Andronicos, C. & Allmendinger, R. & Beyers, S. & Blackwell, D. & Richards, M. & Frone, Z. & Anderson, Brian
- **EGS 6 – Injection Induced Seismicity and Geothermal Energy**, Cladouhos, Trenton & Petty, Susan & Foulger, Gillian & Julian, Burce & Fehler, Michael

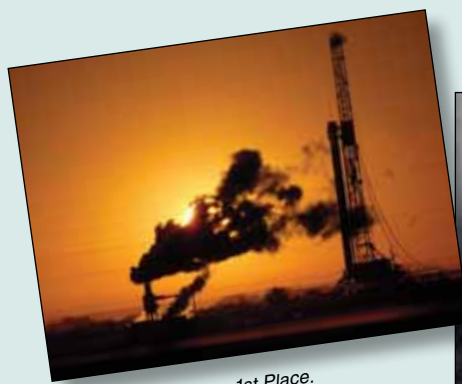
## Annual Meeting Highlights: Part 2

- **Business Development – Magma Energy's Reserves, Resources and Exploration Results According to the Geothermal Reporting Code**, Thompson, Alison & Zaradic, Andrea
- **Exploration 4 – Comparison and Discussion of the 6 km Temperature Maps of the Western US Prepared by the SMU Geothermal Lab and USGS**, Blackwell, David & Stepp, Patrick & Richards, Maria
- **Business Development – Economics – Quantifying Risk in Geothermal Development. The High Enthalpy and Low Enthalpy Case**, Antics, Miklos & Ungemach, Pierre
- **EGS 7 – EGS Potential in the Northern Midcontinent of North America**, Gosnold, Will & Lefever, Richard & Mann, Michael & Klenner, Robert & Salehfar, Hossein

## Photo Contest Winners

In total, 39 photos were entered in the Photo Contest where they were judged for impact, relevance, composition and technical quality. The 1st place winner, Sunrise at Orita appears on the cover of this (November/December) issue of the GRC *Bulletin*. In appreciation of their achievement, GRC awarded cash prizes to photo contest winners. GRC appreciates the creativity and quality of all contest submissions and looks forward to next year's photo contest to be announced and showcased at the GRC Annual Meeting in San Diego, October 23-26, 2011.

- **1st Place – Sunrise at Orita – Flow test (rig on) at well Orita-3**, Billy Thomas, East Brawley, Imperial Valley, California
- **2nd Place – Mystic Sampling – Kelly Hot Springs**, Dale Merrick, Canby, California
- **3rd Place – Tanganon Geothermal Plant – Capi Budi Mansyur**, Ormoc City, Leyte Island, Philippines



1st Place.



2nd Place.



3rd Place.



Honorable Mention.



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Honorable Mention.

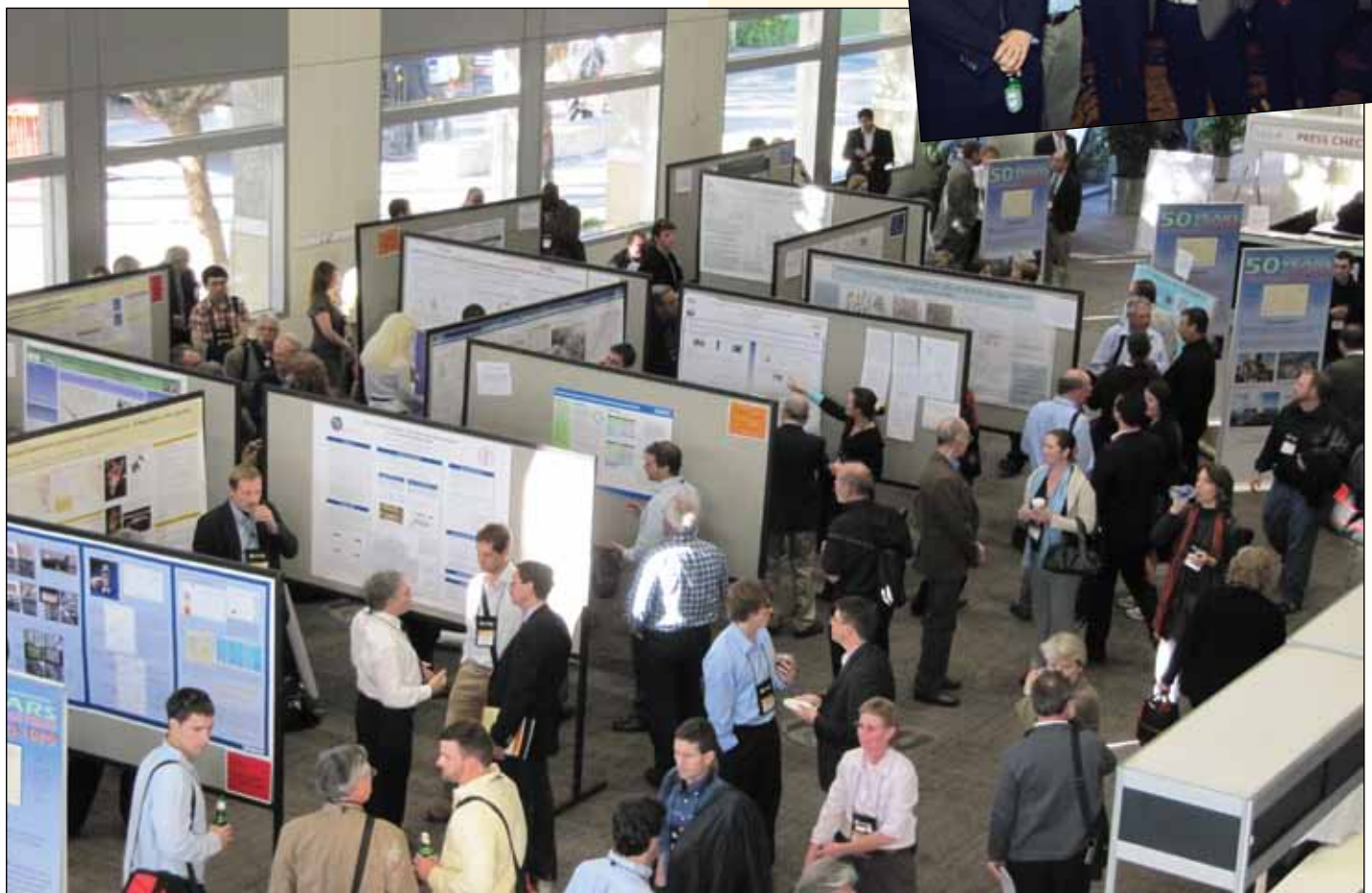


## Annual Meeting Highlights: Part 2

- **Honorable Mention – Akutan Geothermal Project**, Neil McMahon, Akutan, Alaska
- **Honorable Mention – Aguas Calientes Valley on the Alto Plano of Peru - Elevation 14,400 ft.**, Joe LaFleur
- **Honorable Mention – Production Drilling at Magma Energy's Soda Lake Operation**, Frank Baumann, Fallon, Nevada

### 2010 Poster Session Winners

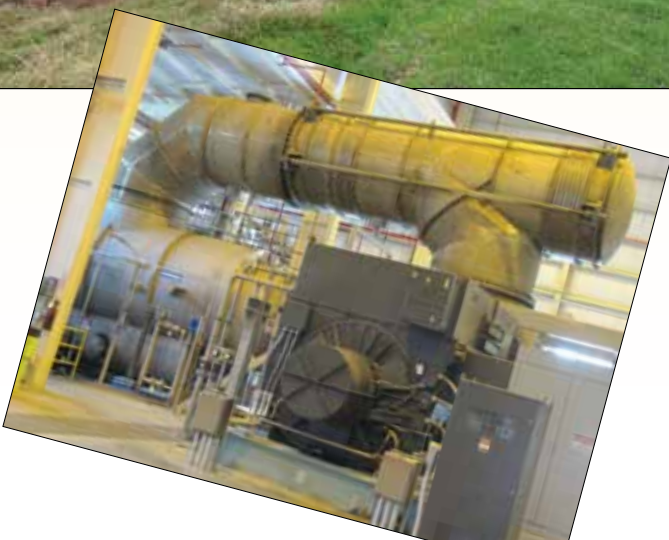
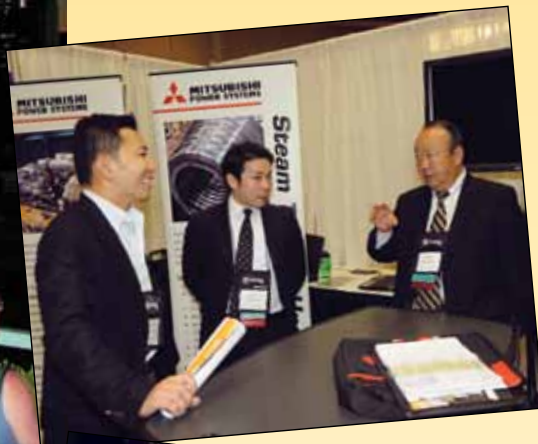
- **Best Student – Geothermal Opportunities of Southeastern United States**, Sica, Nicole & Blackwell, Dave & Frone, Zach & Park, Junghyun
- **Best Non-Student – Utilizing a Comprehensive 3-D Model to Understand, Maintain, and Expand the Soda Lake Geothermal Resource, Nevada, USA**, Van Gundy, T., G. Oppliger, M. Ohren, D. Benoit, M. Morrison ■











*Mark your calendar for GRC's  
35th Annual Meeting  
October 23-26, 2011  
in San Diego, California*