The latest edition of the GRC Annual Meeting and GEA Geothermal Energy Expo was held in late September/early October in Portland, Oregon, USA.

Over 1,400 attendees from 39 countries around the world convened in the “City of Roses” and by all accounts had a very fruitful and enjoyable meeting.

We are documenting the meeting in two parts. In the last GRC Bulletin we reported on the Opening Session, Golf Tournament, International Luncheon and one of the Field Trips. In this issue we write about the GRC Awards, other GRC Fieldtrips, Student Leadership Luncheon, Poster and Technical Session awards, GEA trade show and the 34th Geothermal Photo Contest.

Membership Meeting & Awards Luncheon
by Ian Crawford

As a climax to the celebrations, distinguished colleagues in the geothermal community from around the world were honored at the GRC Awards Luncheon.

The winners are:
Joseph W. Aidlin Award
Marilyn Nemzer
For her long-term commitment to the Geothermal Resources Council and extraordinary devotion to the promotion of geothermal energy through education.

Ben Holt Award
John R. Brugman
For lifetime achievement and innovation in geothermal power plant and process design.

Geothermal Pioneer Award
Joseph LaFleur
For lifetime achievement in the exploration and development of geothermal resources worldwide.

Geothermal Special Achievement Award
Colin Goranson
For outstanding geological interpretation, well testing, and reservoir and drilling engineering contributions to the characterization and development of geothermal prospects.

Jill Robinson Haizlip
For her contribution to geochemistry, her efforts to expand the use of geothermal worldwide, and for mentoring young geoscientists.

Henry J. Ramey Jr. Award
Anthony (Tony) J. Menzies
For innovation in geothermal reservoir engineering and leadership and dedication in supporting the geothermal industry worldwide.
Geothermal Special Achievement Award
Ann Robertson-Tait
For her great contribution to the study of geothermal systems around the world and for her leadership in the geothermal community.

Ann Robertson-Tait smiles as she waits to accept her award with Louis Capuano, Jr., looking on.

The 2014 GRC Award Winners. From left to right: Colin Goranson, John Brugman, Jill Haizlip, Marilyn Nemzer, Joe LaFleur, Ann Robertson-Tait and Tony Menzies.

Best Student Poster
The History of Lightning Dock KGRA: Identifying a Blind Geothermal Resource,
James Crowell, & Anna M. Crowell.


Best Non-Student Poster

Rick Allis explains the research behind his poster presentation.

For more photos of the Awards Luncheon, go to https://flic.kr/s/aHsk4szrkh

For more photos of the Poster Session, go to https://flic.kr/s/aHsk4v1gRS
Outstanding Technical Session Presentation Awards
Awarded by Session Chairs

Basin & Range - Regional Crustal Discontinuities as Guides for Geothermal Exploration, Siler, Drew & Kennedy, B. Mack & Wannamaker, Philip.


Case Studies - The Don A. Campbell Geothermal Project, Orenstein, Rahm & Delwiche, Ben.


EGS 1 - The ECOGI EGS Project in Rittershoffen, France, Baujard, Clement & Genter, Albert & Maurer, Vincent & Dalmais, Eleonore & Graff, Jean-Jacques & Schmittbuhl, Jean.

EGS 2 - Utilization of PVA Flakes in Promoting Self-degradation of Temporary Cementitious Fracture Sealing Material, Sugama, Toshifumi & Pyatina, Tatiana.

EGS 3 - Numerical Thermo-Elastic Simulation for Change in Fracture Aperture Associated With Cold Fluid Injection, Kaneta, Kosuke & Mukuhira, Yusuke & Ito, Takatoshi.

Exploration 1 - Prospecting for a Blind Geothermal System Utilizing Geologic and Geophysical Data, Seven Troughs Range, Northwestern Nevada, Forson, Corina & Faulds, James & Wannamaker, Philip.

Exploration 2 - Toward a Continuum Geothermal Model to Explain Variety of Medium to High Temperature Geothermal Systems in Martinique and Guadeloupe (French Lesser Antilles), Bouchot, Vincent & Gadalia, Alain & Traineu, Herve & Caritg, Severine.


Geophysics - Imaging the Roots of High-Temperature Geothermal Systems Using MT: Results From the Taupo Volcanic Zone, New Zealand, Lindsey, Nathaniel & Bertrand, Edward & Caldwell, Grant & Gasparikova, Erika & Newman, Gregory.

Instrumentation - Test-Stand for Geothermal Borehole Probes, Holbein, Benedict & Isele, Jorg & Spatafora, Luigi.


Nevada - Alternatives to Reduce the High Cost and Risk of Exploration, Drilling For Geothermal Development Case Study - Northern Nevada 2010-2012, Banta, Mathew.

Oil & Gas - Analysis of Sedimentary Geothermal Systems Using an Analytical Reservoir Model, Augustine, Chad.

Plant Chemistry - Control and Online Removal of Metal Sulfide Deposits, Muller, Logan & Gill, Jasbir & Rodman, David & Brown, Kevin & Robinson, Ray.

Plant Design - Optimization of NCG System Lineups, Harvey, William & Fishman, Matthew.
Plant Operations - Increased Reliability and Availability of a Geothermal Steam Turbine, Archambeault, David & Larsen, Garth & Layton, Mark.

Plant Turbines - The Geothermal Radial Outflow Turbine, Spadacini, Claudio & Xodo, Luca & Quaia, Matteo & Frassinetti, Marco & Rizzi, Dario.


Regulatory/Environmental/Policy - Social and Political Consequences of Geothermal: A Case Study from the Nereidas Valley, Colombia, Dewhurst, Kara S.


Resource Assessment - Smart Tracers for Geothermal Reservoir Assessment, Du Frane, Wyatt & Vericella, John & Duoss, Eric & Smith, Megan & Aines, Roger & Roberts, Jeff.


Sedimentary Basin 1 - Can Deep Stratigraphic Reservoirs Sustain 100 MW Power Plants, Allis, Rick & Moore, Joseph.


The GRC has added all the papers associated with the 2014 GRC Annual Meeting Technical Session presentations, including the winning presentations listed above, to the GRC Geothermal Library at www.geothermal-library.org. Papers from the 2014 Annual Meeting are available for members only. Papers from previous years are available for all.

Call for Papers

The GRC invites you to present your latest technical work in geothermal research, exploration, development and utilization at the 39th GRC Annual Meeting to be held in Reno, Nevada, USA, September 20-23. Successful selection to present at the 2015 GRC Annual Meeting is prestigious and recognizes the presenter as a top industry expert. International participation is key to the success of the GRC Annual Meeting technical programs and we encourage geothermal researchers and experts from around the world to submit their work for consideration to be presented.

Authors may submit an oral technical presentation and/or poster at the 2015 GRC Annual Meeting.

The Draft Paper submission deadline is April 10, 2015.

More information can be found on the GRC Annual Meeting webpage at: www.geothermal.org/meet-new.html.
In total, 47 photos were entered in the 35th Annual Amateur Geothermal Photography Contest where they were judged for impact, relevance, composition and technical quality.

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 39th Annual Meeting, September 20-23, 2015 at the Peppermill Resort Spa, Reno, Nevada, USA.

1st Place: *Coil Tubing from 125 ft. Manlift* by Jay Hepper, Cobb, California, USA.

2nd Place: *Nga Awa Purua Pipes* by Sarah Milicich, Lower Hutt, New Zealand.

3rd Place: *El Tatio Dawn* by James Stimac, Santa Rosa, California, USA.

Honorable Mention: *The Bulldog* by Andrew Tiedeman, Fallon, Nevada, USA.

Honorable Mention: *Steaming Pilgrim Lagoon, Fall Colors and Kiqluiak Mountains* by Dick Benoit, Reno, Nevada, USA.

Honorable Mention: *Man Made Rainbow* by Sam Abraham, Nairobi, Kenya.

To see all the photos in the Geothermal Photo Contest, go to https://flic.kr/s/aHsk2rXKcg
Student Leadership Luncheon

A highlight of the Annual Meeting, the GRC Student Leadership Luncheon attracted more than 60 students and geothermal leaders to discuss job opportunities in the industry.

GRC Field Trip to Mount Saint Helens

The most popular GRC Field trip from the GRC Annual Meeting was the one-day excursion to Mount Saint Helens in neighboring Washington State. 43 attendees spent an enjoyable day exploring the sleeping volcano, notorious for its catastrophic eruption on May 18, 1980, the deadliest and most economically destructive volcanic event in the history of the United States. Expert guides from the U.S. Geological Survey (USGS) Richard Waitt and Willie Scott led a fascinating tour of the still recovering area.

To see more photos from the GRC Student Luncheon go to: https://flic.kr/s/aHsk5777Kx

To see more photos from the GRC Fieldtrip to Mt. St. Helens go to: https://flic.kr/s/aHsk67mqJt
GEA Geothermal Energy Expo

In conjunction with the GRC Annual Meeting the Geothermal Energy Association (GEA) ran the Geothermal Energy Expo. The **GRC/GEA Opening Reception** in the Expo Hall is one of the social highlights of the meeting.

The GRC/GEA Opening Reception is a networking nirvana.

The folks at the Power Engineers booth give a warm welcome.

Angel Pedraza, Eduardo Reyes of Solenis and Isaac Silva of CFE represent Mexico in Portland, Oregon.

Paul Brophy (left) president of EGS, Inc. and the GRC President for 2015-16 with Juliet Newson, President of the International Geothermal Association (IGA) 2013-2016.

Desmond Stubbs (left) of Oak Ridge Associated Universities enjoys a chat.

Steve Ahn (left) of Chicago Title National Services visits Rahm Orenstein and Tatum Jackson (right) at the Ormat booth.

To see more photos from the GRC\GEA Opening Reception go to: https://flic.kr/s/aHsk4t7Tss

Unless otherwise attributed, all GRC Annual Meeting photos by Naim Hasan Photography LLC of Portland, Oregon.