

# GEOHERMAL ENERGY UTILIZATION

ASSOCIATED WITH  
OIL & GAS DEVELOPMENT

November 3 - 4, 2009  
SMU COX Collins Center  
Dallas, Texas



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Online registration at  
<http://smu.edu/geothermal>

November 3 - 4, 2009  
SMU Collins Executive Education Center

## DESCRIPTION & PURPOSE

This international conference hosted by the SMU Geothermal Laboratory provides a forum for the exchange of new information relevant to all aspects of geothermal energy production from existing oil and gas wells. Geothermal energy is considered a base-load energy source because it produces clean, renewable electrical power 24 hours a day, 365 days a year. The technology is available now. Energy is extracted from well fluids using compact, binary turbines. These systems can be sized to fit a single well or multiple wells with the required approximate 120°F fluid temperature differential between produced and cooling temperatures. Along the Gulf Coast, temperatures of greater than 225°F are candidates for use, while temperatures as low as 170°F can be used in cooler climates. The capability to generate electricity creates a new revenue stream for low-yield hydrocarbon producers with high water volume, and can eliminate the need to abandon wells that cost more to pump than they currently produce.

With systems installed in Chena Hot Springs, Alaska, the Wyoming Rocky Mountain Oilfield Testing Center, and the installation in the Florida Jay Field this Fall, using low temperature fluids for power generation has moved from a concept to a reality. Attendees learn from experienced developers the necessary information to build a geothermal energy portfolio.

## Oil & Gas Industry Advantages

- Much of the field technology is grounded in oil and gas industry practices
- Infrastructure already exists
- Geothermal development can use existing reservoirs or modify completions after production ends
- Costs are lower than start-from-scratch geothermal development, with estimated payout in as little as 3 to 5 years
- Small-scale power plants are designed for “clustering” with additional units or easy transport to other sites to meet changing field needs
- Federal stimulus money is available for renewable energy projects



## Program Presentations Include:

- Power Generation Technology Advancements
- New DOE Demonstration Sites • Use of Abandoned Wells
- Geothermal Resource Exploration and Assessment
- Reservoir Engineering • Enhanced Geothermal Systems
- Geopressure Development
- Green Power for Utilities and Grid Connection
- Renewable Energy Credits (RECs) and Tax Credits
- Regulation Laws and Private Leasing
- Demand Side Applications for Geothermal Energy
- Project Financing

Speakers listed under the “**Conference Details**” link at:  
<http://smu.edu/geothermal>

## Conference Itinerary

### TUESDAY, NOVEMBER 3

- 7 am – 8:30 am Registration
- 8:30 am – 12:00 pm Speakers
- 12:00 pm – 1:30 pm Provided Lunch & Round Table Discussions
- 1:45 pm – 5:30 pm Speakers
- 6 pm – 8 pm Evening Reception

### WEDNESDAY, NOVEMBER 4

- 8 am – 9:30 am Poster Session
- 9:30 am – 12:00 pm Speakers
- 12:00 pm – 1:30 pm Provided Lunch & Round Table Discussions
- 1:45 pm – 4:00 pm Speakers
- 4:00 pm Close of Conference

## Geothermal Energy Interesting Facts

- Geothermal energy is clean and safe for the surrounding environment. Binary systems are considered emission free because of their closed-loop design.
- Geothermal power stations have a relatively small footprint, and create less of an impact on the environment than even hydroelectric plants.
- Geothermal energy is sustainable because produced water can be reinjected into the ground and reheated by the Earth.
- Geothermal electrical power can be produced at 5 to 10 cents per kilowatt-hour, making it competitive with new fossil fuel power plants and other renewable energy sources.
- Geothermal energy could produce 10 percent of US electricity by the year 2050.
- The hottest well recorded in Texas was 510°F at 23,800 feet, near Victoria, Texas.

### HOTELS

#### SMU Geothermal Conference Rate

*\*Release date: October 12th*

#### The Radisson Hotel - Dallas Central

6060 N. Central Expressway  
Dallas, TX 75231  
1.800.333.3333 or 214.750.6060  
www.radisson.com  
\$99 per night for singles or doubles

#### La Quinta Inn and Suites

10001 N. Central Expressway  
Dallas, TX 75231  
214.821.4220  
www.lq.com  
\$95 per night for singles or doubles

## CONFERENCE REGISTRATION Geothermal Energy Utilization

NAME \_\_\_\_\_ TITLE \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE \_\_\_\_\_ FAX \_\_\_\_\_ EMAIL \_\_\_\_\_

\_\_\_\_\_ Registration(s) at \$375 through October 2, \$475 through October 23, \$550 October 24 through on-site. Student registrations are \$75 with ID.

\_\_\_\_\_ I am interested in a booth space. Booth cost \$1200 for 10x6 space and one attendee.

\_\_\_\_\_ I want to present a poster titled: \_\_\_\_\_

Make Check or Money Order to:

**SMU Geothermal Laboratory**

Mail Registration to:

SMU Geothermal Laboratory  
Huffington Department of Earth Sciences  
PO Box 750395  
Dallas, TX 75275-0395



#### Other Payment Options:

Credit Card Information  
(Discover, Mastercard, Visa Accepted)

Please Call Maria Richards at:  
**214.768.1975**

#### Online Registration at:

<http://smu.edu/geothermal>

**Early Registration Deadline: Friday October 2, 2009**



SOUTHERN METHODIST UNIVERSITY  
Huffington Department of Earth Sciences  
SMU Geothermal Laboratory  
P.O. Box 750395  
Dallas, TX 75275-0395

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## SMU GEOTHERMAL LABORATORY GEOTHERMAL ENERGY UTILIZATION CONFERENCE

**November 3 - 4, 2009**  
**Dallas, Texas**

**Maria Richards 214.768.1975**  
**Dr. David Blackwell 214.768.2745**  
**<http://smu.edu/geothermal>**

*"Tapping the Earth's energy in your community"*

The [conference attendees'] broad range of backgrounds fills a very important need in the geothermal industry, creating a shift into innovative and unique areas for power development throughout the nation.

*Roy Mink, Mink GeoHydro Consulting*

We're seeing a lot of companies recognize that they can add to their bottom line by producing electricity from something that has been wasted. Frankly, it's because of the work done by the SMU Geothermal Lab.

*Loy Sneary, Gulf Coast Green Energy*

Because law lags science, it is essential for the legal community to be informed of new developments emerging in the energy industry. With the geothermal industry expanding into the oil and gas arena, new legal issues continue to arise. Attending this conference gives me the tools to meet these challenges head on.

*Katie Stepp, Deans & Lyons, LLP*