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<http://www.geo-energy.org/updates.aspx>



National News

Obama Tells *Rolling Stone* He Will Push a Climate Bill in 2011

In a *Rolling Stone* interview with President Obama released online this week, the President responded to questions on a variety of U.S. issues. On climate change, the question as posed by the *Rolling Stone* correspondent was: *James Hansen, the NASA scientist who is perhaps the most respected authority on global warming, says that climate change is the predominant moral issue of the 21st century, comparable to slavery faced by Lincoln and the response to Nazism faced by Churchill. Do you agree with that statement?*

Obama asserted that climate change has the potential for devastating effects around the globe and said we must mobilize both domestically and internationally. "In the midst of a huge economic crisis," Obama said other urgent issues such as 10% unemployment "diverted attention from what I consider to be an urgent priority." He said there has not been as much progress made as he would have liked, but that there have been significant steps.

Obama outlined actions taken toward improving national energy efficiency. "We instituted the first increase in fuel-efficiency standards in this country in 30 years. It used to be that California would have some very rigorous rule, and then other states would have much weaker ones. Now we've got one rule," he said. "Not only that, it used to be that trucks weren't covered, and there were all kinds of loopholes — that's how SUVs were out there getting eight miles a gallon. Now everybody's regulated — not only cars, but trucks. We did this with the agreement of the auto industry, which had never agreed to it before; we did it with the auto workers, who had never agreed to it before. We are taking the equivalent of millions of cars off the road, when it comes to the amount of greenhouse gases that are produced."

"Is it enough? Absolutely not," he added. "One of my top priorities next year is to have an energy policy that begins to address all facets of our overreliance on fossil fuels." He said, "We may end up having to do it in chunks, as opposed to some sort of comprehensive omnibus legislation. But we're going to stay on this because it is good for our economy, it's good for our national security, and, ultimately, it's good for our environment.

See

http://www.rollingstone.com/politics/news/17390/209395?RS_show_page=4

<http://www.politico.com/news/stories/0910/42825.html>

Congress Adjourns, Will "Take a Shot" at Climate Legislation in Lamé Duck

The House and Senate have agreed to adjourn until 2pm November 15. The Senate has released its schedule for October and November for pro-forma sessions with no business conducted. Following the last session on November 12, there will be a period of morning business on November 15, with senators allowed 10 minutes each. Before the Senate adjourned Senator Reid filed cloture on the motions to proceed to the following bills: S. 3815, Promoting Natural Gas and Electric Vehicles Act of 2010; S. 3772, Paycheck Fairness Act; and S. 510, FDA Food Safety Modernization Act.

Sessions are scheduled for:

Friday, October 1 at 11:30am
 Tuesday, October 5 at 11am
 Friday, October 8 at 11:30am
 Tuesday, October 12 at 10am
 Friday, October 15 at 10am
 Tuesday, October 19 at 12 noon
 Friday, October 22 at 1pm

Tuesday, October 26 at 12 noon
 Friday, October 29 at 11:30am
 Monday, November 1 at 9am
 Thursday, November 4 at 9am
 Monday, November 8 at 12 noon
 Wednesday, November 10 at 9:30am
 Friday, November 12 at 9:30am

Congress also adopted a Continuing Resolution as a substitute amendment to HR. 3081. The Senate agreed to "a clean continuing resolution that includes only those exceptions that are critical to allow the government to carry out its responsibilities," said Senator Inouye (D-HI), Chair of the Senate Appropriations Committee. "I would note

that according to the CBO scoring of this bill, this resolution will fund the government through December 3, 2010, at a rate that is approximately \$8.2 billion below fiscal year 2010 enacted levels," he said.

When Congress returns in November, it will have a long list of issues which it still could act on, including energy legislation. Clashes in Congress prevented any sweeping energy legislation from being passed so far this year. Yet despite inability to obtain adequate bipartisan support needed to break a filibuster in the Senate before the elections, Majority Leader Harry Reid (D-NV) has said he would still like to "take a shot at it" in the lame duck session.

Many feel that chances look slim that next year's congressional makeup will be any more energy-legislation-friendly. But some lawmakers say proposals next year will have more potential for bipartisan consensus. Senator Lamar Alexander (R-TN) asserts that Congress will be more likely to pass energy measures due to expected election gains by the Republican Party.

See:

http://www.energycentral.com/functional/news/news_detail.cfm?did=17123979,

<http://www.nytimes.com/gwire/2010/09/29/29greenwire-gop-senators-predict-energy-victories-next-year-9886.html>.

Gunnison Sage Grouse Added to ESA Candidate List, BLM Assessing Compatibility of Two Geothermal Projects

This week the Fish and Wildlife Service announced the Gunnison sage grouse is worthy of Endangered Species Act protection, placing it on a "candidate list," meaning regulators will review its status every year. If the Bureau of Land Management determines two geothermal projects currently nominated for lease in the Gunnison Basin will have significant impact on the species, the parcels will not be offered for lease. The Mono Basin sage grouse was also placed on the list, and the greater sage grouse was placed on the list six months ago.

The estimated number of Gunnison grouse is about 4,500 birds. Its habitat is limited to southwest Colorado and southeast Utah, while the greater sage grouse is found in 11 Western states. "The threats to the Gunnison are clearly more pervasive on a species-wide basis than the greater sage grouse," said Al Pfister, FWS's Western Colorado supervisor for ecological services.

The BLM manages about half of Colorado's Gunnison sage grouse habitat, which totals 797,432 acres. BLM is preparing an environmental analysis to determine whether energy development is appropriate in the basin and what restrictions should be applied to protect the species. Nearly 9,000 acres of federal land in the Gunnison Basin have been nominated for lease to develop the two geothermal power plants.

See <http://www.eenews.net/Landletter/2010/09/30/5/>



Company News

Atlas Copco: Geothermal Solutions Offer High Power from Low Temperature Wells

Press Release, Santa Maria, California, September 13 — Atlas Copco Gas and Process complete geothermal solutions offer unique high power output from low temperature geothermal wells. Utilizing the binary cycle and Atlas Copco custom engineered expander generators, up to 25 MW per unit power production can be achieved. The energy recovery system can be the Organic Rankine Cycle (ORC). All technologies produce significant power from high, medium to low temperature wells resources. In some regions a low temperature geothermal resource as low as 100-130° C can be found at a depth of between 4,000 and 5,000 meters.

The Atlas Copco expander generators are manufactured at Atlas Copco Mafi-Trench Company LLC (formerly Mafi-Trench Corporation) production facility located in Santa Maria, California. The large radial inflow turbines are capable of producing up to 25 MW per unit.

How the Expanders Work: The machines utilize a binary cycle technology that employs two fluids. First the hot water extracted from the geothermal well is used to heat and vaporize a working fluid (isobutene or isopentane) that is completely contained in a closed loop. The vaporized working fluid is expanded through the Atlas Copco turbines, which spin electric generators and produce electricity. The hot water is returned below ground and the working fluid leaving the turbine is condensed into liquid, which is then pumped up to high pressure. The working fluid is re-heated and re-vaporized, expanded through the turbine, condensed into liquid, and re-pressurized, always remaining within the closed circuit, ensuring no emissions.

A true base-load renewable energy source, geothermal power represents a significant resource for clean energy. Currently, the worldwide installed capacity is approximately 9 GW with estimated growth of 4% per year.

For several decades Atlas Copco has helped customers around the world to unlock the vast potential of sustainable energy sources. In 2009, the company was recognized for the fourth time as part of the Global 100 list of the world's most sustainable corporations. In addition, Atlas Copco is a member of the FTSE4Good Index. The FTSE index measures the performance of companies that meet globally recognized corporate responsibility standards. Atlas Copco is ISO 9001 certified and ISO 14001 compliant. Learn more about Atlas Copco Gas and Process geothermal solutions at: www.atlascopco-gap.com.

Nevada Geothermal Power: Private Placement Funds Total C\$10,350,000

Press Release, September 27 — Vancouver, B.C. — Nevada Geothermal Power Inc. (NGP) (TSX.V: NGP, OTCBB: NGLPF), is pleased to announce that it has closed its non-brokered private placement. A total of 20,700,000 units were issued at a price of C\$0.50 per unit raising gross proceeds of C\$10,350,000.

Each unit consists of one common share and one transferable common share purchase warrant, with one warrant entitling the holder to purchase one additional common share of the Company for a period of up to 36 months at a purchase price of C\$0.70 per warrant share. If, after January 24, 2011, the closing price of the Company's common shares on the TSX Venture Exchange is C\$1.00 or greater per share for a period of 20 consecutive trading days, the Company may accelerate the expiry date of the warrants and in such case the warrants must be exercised within 30 days.

KBH Capital Corp. and Global Resource Investments LP acted as the principal finders and will receive a 5% cash commission and unit purchase warrants equal to 5% of the number of units sold to investors introduced to the Company. An aggregate of 1,000,000 finder's warrants were issued. Each finder's warrant entitles the holder to acquire one unit for a period of up to 36 months at an exercise price of C\$0.50 per unit, subject to the accelerated expiry.

For more, see

<http://www.nevadageothermal.com/s/News.asp?ReportID=420721& Type=News& Title=Completes-Private-Placement-Total-Funds-C10350000>

Terra-Gen Power: Leveraged Lease Financing for Dixie Valley Plant Closes at \$286M

Press Release, New York, September 29 — Terra-Gen Power announced today that it has closed a \$286 million financing for its 67 megawatts (MW) nameplate-rated Dixie Valley geothermal plant in Churchill County, Nevada. The \$286 million financing included \$175 million of Series A and Series B Lessor Notes due 2033 issued in a private placement, as well as ancillary credit facilities of \$11 million. MetLife provided the equity financing for the leveraged lease transaction.

BNP Paribas Securities Corp. and Barclays Capital, Inc. acted as joint lead placement agents for the issuance of the Lessor Notes, with BNP acting as Lead Arranger, Syndication Agent, and Administrative Agent for the bank facility. The Lessor Notes were purchased by Prudential Capital Group, John Hancock Financial Services and MetLife.

Proceeds from the financing were used to acquire the outstanding minority interest in Dixie Valley to repay existing Dixie debt, to pay down a portion of Terra-Gen corporate level debt and for general corporate purposes. Terra-Gen will continue to manage and operate Dixie Valley.

For more, see <http://www.prnewswire.com/news-releases/terra-gen-power-announces-closing-of-286-mm-leveraged-lease-financing-for-dixie-valley-geothermal-facility-103993528.html>.



Renewable Energy and Climate Change

Melting Ice Sheets Reveal Clues to Human Societies

Ice sheets and glaciers that are rapidly melting due to climate change are exposing millennia of treasures for archaeologists. The fear, however, is that artifacts which may provide clues to human origins will disintegrate or rot before they are discovered and preserved. Once freed from ice, wood rots in a few years, while feathers, wool, or leather can crumble to dust in a matter of days.

In Norway, hundreds of Viking reindeer hunting gear artifacts including bows, arrows, and hunting sticks have been found where a 60-ft-wide section of the Juvfonna ice sheet has disappeared in the last 12 months. Archaeologists can tell the hunting formation required 15 to 20 people, proving Norway had an organized society about 1,500 years ago.

Discoveries have been made from Alaska to Siberia. A team trying to locate the spot where general Hannibal invaded Italy in 218 BC said, "This is the first summer since 1994 when we began our field excavations above 8,000 ft that we have not been inundated by even one day of rain, sleet and snow flurries. I expect we will see more ice patch archaeology discoveries."

See <http://www.guardian.co.uk/science/2010/sep/26/global-warming-ancient-artefacts>



State News

Nevada and China: Grant Will Send UNLV Students to China Geothermal Field

A highly competitive \$3.75 million grant will allow UNLV to send 14 undergrad and seven grad students and six high school teachers to conduct geothermal-related research in microbiology. The project will begin next year and is set to run over five years. Undergraduate students will study the ecosystem of China's largest geothermal field, located in Tengchong in the Western Yunnan Province. Their research will include microbial nitrogen recycling, microbial cellulose degradation for biofuels, and genomics and metagenomics.

With economic and business leaders in the U.S. feeling uneasy about China's role in developing clean energy research, the effort is also meant to strengthen academic collaboration between the two countries. Brian Hedlund of UNLV's school of life sciences, who will head the project, hopes to avoid competition and "to work toward a more global view." "One of the problems is Chinese scientists and the public know a lot more about the U.S. than we know about them," Hedlund said, saying this project is the biggest way to "get that collaboration going."

See <http://unlvrebelyell.com/2010/09/27/grant-funds-rebels%E2%80%99-geothermal-energy-research-in-u-s-china/>

Washington: State's First Geothermal Test Wells in 30 Years Underway

The Snohomish County Public Utility District is drilling geothermal test wells, the first time this has happened in over 30 years in the state, according to the PUD, which hopes to use geothermal energy to power 35,000 homes by 2020. It would be the first utility in Washington State to develop geothermal power.

The PUD is spending \$350,000 to drill the five test holes. The desired 50-MW plant will cost between \$150 million and \$200 million. It would likely be built in 10-MW phases, with the first potentially completed by 2016.

See <http://www.heraldnet.com/article/20100921/NEWS01/709219858/1122>



International News

Australia: CSIRO Studies Geothermal Applications, Tasmania Resource "Drill Ready," Torrens Energy Receives Grant and Additional Acreage

In Western Australia, the Commonwealth Scientific and Industrial Research Organization (CSIRO) is conducting research meant to broaden the use and commercial-scale application of geothermal energy. Study includes applications for desalination, air conditioning and power, as well as chemical and mechanical factors of management of aquifers.

In Tasmania, KUTh Energy reports on a magnetotelluric survey showing evidence of a naturally fractured hot rock geothermal system at the Lemont inferred geothermal resource. "KUTh has now collated a considerable amount of data towards location of its drilling target with projects like the MT survey continuing to form a critical component of the company's risk mitigation strategy." said David McDonald, managing director. "Our Lemont inferred resource target is now 'drill ready'."

In South Australia, Torrens Energy has been granted an A\$7 million matched funding grant under the Geothermal Drilling Program Round 2 for its Parachilna geothermal resource at the Mulgaria Project Area. The grant will add working capital and will benefit shareholders. The first deep well, Elendil 1, is scheduled for drilling in 2011. Torrens Energy also acquired GEL 559 this week, consisting of additional acreage on the northern end of the Mulgaria area for a total of 13,846 km² geothermal license holding, representing the largest in the state.

See:

<http://www.businessreviewaustralia.com/business-features/technology/future-renewable-technologies>

<http://www.proactiveinvestors.com.au/companies/news/10329/kuth-energy-reports-on-drilling-geothermal-targets-in-tasmania-10329.html>

<http://www.proactiveinvestors.com.au/companies/news/10361/torrens-energy-granted-a7m-funding-for-parachilna-geothermal-project-10361.html>

<http://www.proactiveinvestors.com.au/companies/news/10448/torrens-energy-acquires-new-geothermal-exploration-licence-in-south-australia-10448.html>

Bangladesh: Ambassador to Sweden to Seek Geothermal Technology from Europe

In a meeting between Bangladesh President Zillur Rahman and newly appointed Bangladesh Ambassador to Sweden AFM Gawsul Azam Sarker, the President emphasized diplomatic efforts to bring geothermal energy from Europe to meet electricity demands and to bring more European investments in through incentives the government is offering foreign investors. He asked the new ambassador to increase trade and commerce relations. Azam agreed to do his best in bringing geothermal energy technology as well as ship recycling technology available in Sweden.

See <http://nation.ittefaq.com/issues/2010/09/28/news0467.htm>

Germany: Environment Agency Outlines Plans for 100% Renewables by 2050

The German government which already has a goal to reach an 80% share of renewable electricity by 2050 now says it can do even better in an analysis from the German Federal Environment Agency. "We believe 100 percent is possible, and is also needed," said Jochen Flasbarth, the agency's head, at a Washington meeting with Obama administration officials.

To accomplish this, Flasbarth's agency has outlined ideas ranging from massive grid extensions to large investments in local renewable energy productions. The analysis contains no cost projections. The Federation of German Industries said the investment needed for the "proposed revolutionary conversion of the energy industry" should not be met solely by raising energy prices, which they said would endanger the viability of the German industrial value chain.

Germany and Spain hold nearly 75% of the world's photovoltaic solar market output. The European Union has a goal of 12.5% renewable electricity by 2010. Germany is currently the only country on track, with 14.2% from renewables. Its utility companies are required to purchase renewable energy at a rate guaranteed for a number of years. Spain, France, Italy, and Greece are copying Germany's solar rebate program as they work toward the EU goal.

See

<http://www.eenews.net/climatewire/2010/09/28/3/>

<http://articles.pv-solar.com/articles.php?WorldPhotovoltaicSolarPanelMarketShare>

Philippines: MGI to Acquire Maibarara Service Contract, Green Core to Supply Western Visayas Region

The Maibarara Geothermal Inc. (MGI), a joint venture formed to construct a 20-MW geothermal plant on Mt. Makiling, has executed a deed of assignment and assumption with PetroEnergy, Resources Corp which originally held the service contract license for the project. The company has now asked the Department of Energy to allow PetroEnergy to transfer its geothermal contract service to MGI. The P2.8 billion Maibarara geothermal power plant is planned to be commissioned by late 2013.

In the Western Visayas region, Green Core Geothermal signed a contract with three regional electric cooperatives to provide power from its 112.5-MW Tongonan-1 in Leyte and 192.5-MW Palinpinon facilities in Negros Oriental. The contract specifies that Green Core will supply the Akelco Electric Cooperative with 18 MW in 2010 and 10 MW from 2011 to 2020. Ilco will get 3 MW from 2010 to 2012 and 18 MW from 2012-2022. Capelco will get 12 MW for the next 10 years.

See

<http://business.inquirer.net/money/breakingnews/view/20100928-294827/MGI-seeks-geothermal-service-contract-on-Mt-Makiling>

<http://www.gmanews.tv/story/202329/western-visayas-gets-clean-energy-from-green-core>

UK: Northern Ireland and Scotland Set Renewable Energy Targets

Northern Ireland has a current target of 12% renewable electricity by 2012 and is now considering 40% renewables by 2020. The "Strategic Energy Framework for Northern Ireland - 2010" says onshore wind farms are the most established, large-scale renewable energy source and that offshore wind, biomass, and geothermal energy will also play a role. Arlene Foster, Minister of Enterprise, Trade and Investment says the country is well on track to meet the goal.

Not to be outdone, First Minister of Scotland Alex Salmond said Scotland can produce 100% its electricity from low-carbon sources by 2025. Scotland has just under 3 GW of renewable energy capacity with the majority from onshore wind power. It has nearly 63 GW in low-carbon electricity capacity potential. "Scotland has unrivalled green energy resources," First Minister of Scotland Alex Salmond said.

See:

http://www.energymatters.com.au/index.php?main_page=news_article&article_id=1084

<http://www.rapidonline.com/latestnews.aspx?id=800089419&tier1=Electrical+%26+Power&title=Salmond%3A+Scotland+will+rely+solely+on+renewable+energy+by+2025>



Geothermal Heat Pumps and Direct Use

Ohio State Geothermal Wells to Cut Energy Consumption by a Third

At Ohio State, 450 vertical geothermal wells will be drilled in October to heat and cool five of its halls. The geothermal systems are estimated to save the university 14.7% in annual energy costs and to use 33.8% less energy than conventional systems, according to a document outlining Facilities Operations and Development. They are expected to pay for themselves in about 10 years.

See <http://www.thelantern.com/mobile/campus/geothermal-wells-to-cut-south-campus-residence-halls-energy-consumption-by-a-third-1.1650251>

Geothermal Heating and Cooling Inaugurated in DC Public Schools

Stoddert Elementary School is the first school in DC Public Schools (DCPS) to use geothermal energy. The geothermal heating upgrade was part of a \$34.3 million effort to modernize Stoddert Elementary School. The improved facilities are LEED Gold certified and include a new gymnasium, a new athletic field and playground, a new media center and cafeteria, a new 42-space parking lot.

"Stoddert is the first DCPS school with a geothermal energy system that not only creatively saves on heating and cooling costs, it also serves as a teaching tool for the students. The interactive information board in the main lobby shows students energy savings and other data," said Office of Public Education Facilities Modernization (OPEFM) Director Allen Lew.

Similar projects are happening around DC; seven public schools were renovated in time for this academic year. "Our long-term goal is to make DC public schools the highest performing urban school district in the country. By providing students with top-notch educators and facilities, we are laying the foundation to achieve that goal," said DCPS Chancellor Michelle Rhee. "Over the last three years we've seen remarkable improvement in test scores and graduation rates, and with great teachers and cutting edge technology, like here at Stoddert, there's no limit to what our kids can achieve."

See:

<http://dcps.dc.gov/DCPS/About+DCPS/Press+Releases+and+Announcements/Press+Releases/Fenty+&+Stodder+Students+Unveil+New+Look+for+First+Day+of+School>

<http://www.eekarchitects.com/community/4-in-the-news/105-stoddert-elementary-school-is-the-first-in-dcps-to-use-geothermal-energy>



<http://www.geo-energy.org/updates.aspx>



Notices

Closing This Week

DOE Loan Guarantee Solicitation Extended (October 5)

The Department of Energy is extending the application deadline for the July 2009 Energy Efficiency, Renewable Energy and Advance Transmission and Distribution Technologies Solicitation. Round 8, Part I application is due October 5, 2010. Applicants that are invited to submit a Part II application must submit all materials by the Round 8, Part II deadline of December 31, 2010.

Energy secretary Steven Chu said: "By extending the time applicants can file, we will be able to support additional projects that diversify the country's clean energy mix and strengthen our economy."

The extension gives companies six more weeks to apply for a loan guarantee under Section 1703 or Recovery Act-funded Section 1705. For more information about this solicitation and the Department's Loan Guarantee Program, please visit www.lgprogram.energy.gov.

Current Notices

GEA Board Nominating Committee Accepting Suggestions for Three Open Board Positions

Geothermal Energy Association members will be filling three open elected positions on the Board of Directors at the Annual GEA Members Meeting to be held October 23 in Sacramento, CA. Ballots will be sent out to all GEA members prior to the meeting.

Doug Glaspey, US Geothermal, John Pritchett, SAIC, and Hank Sennott, Enel are serving as the Nominating Committee for the Board. To make a suggestion for the open positions contact:

Doug Glaspey: dglaspey@usgeothermal.com;

John Pritchett: JOHN.W.PRITCHETT@saic.com

Hank Sennott: hank.sennott@northamerica.enel.it

Or contact GEA's executive director Karl Gawell: karl@geo-energy.org

Call for Papers, Enhanced Geothermal Systems, Joint AAPG/SPE/SEG Hedberg Research Conference (October 25)

From the AAPG/SPE/SEG Hedberg Research Conference Program Committee

Dates and Location: March 14-18, 2011, Napa, California, with optional post-meeting field trip.

Conference Conveners

- Dr. Gary H. Isaksen (ExxonMobil Exploration Company)
- Dr. Dag Nummedal (Colorado Energy Research Institute, Colorado School of Mines)
- Dr. Peter Malin (Institute of Earth Science and Engineering, University of Auckland)

Conference Goals:

Improved understanding of geothermal resources and recent advances in exploitation technologies offers the possibility of a much broader use of geothermal energy sources on a global scale. The principal purposes of this conference are to facilitate knowledge sharing, enhance science and technology networks, foster cooperation among geothermal experts from industry, academia, and government, and identify technology gaps and economic barriers to project implementation. Our goal is to develop clarity around recent advances, identify technology gaps, and discuss scenarios and strategies to help develop enhanced geothermal systems in economically viable ways.

Format:

The meeting will be comprised of three days of single session oral and poster presentations, and an optional post-conference field trip to the Geysers/Calpine Geothermal Center in Middletown, California. Oral presentations will be 30 minutes in length, with discussion by all attendees following each presentation. Additional discussion sessions and breakouts may also be planned. To optimize the discussions, the number of attendees will be limited to 120 individuals. The poster sessions will be linked to the oral presentations and will feature prominently in the discussions. The results of the conference will be published in a compendium research volume, hopefully as an AAPG Memoir.

Themes:

The conference will focus on these major topics:

1. Recent Advances that address (a) improved understanding of worldwide subsurface heat flow and geothermal reservoirs, (b) links between geothermal reservoir models, heatflow, geodynamics, pressure cells, structural and stratigraphic models, fracture technologies (e.g. fluids in closed and open systems), prediction of migration pathways, charge, stimulation (hydraulic, chemical), and probabilistic approaches to fluid migration and risk analysis. Also consider talks/posters on advanced in surface technologies (e.g. heat exchangers).
2. Subsurface Imaging and Modeling, specifically addressing properties of rocks, faults, and fractures, as well as water and other fluids. Research includes reservoir diagenesis and porosity/permeability alteration, artificial fracturing, fracture propagation, PVT, stress and deformation, multi-phase flow, heat flow evolution, fault behavior, and low- and high-temperature processes.

3. Uncertainty and Risk associated with rock volume interpretations, structural interpretation, migration/flow fairways, resource volume assessments. Project Economics: drilling and completion costs, costs for energy conversions, energy forecasts.
4. Energy Conversion and Recovery from Enhanced or Engineered Geothermal Systems. What are the technology gaps we need to fill in order to ensure economic viability for EGS? What EGS technology challenges exist for academia and industry? How can we best engineer the system to emulate the productivity of a hydrothermal reservoir? What do regulators and policy makers need to understand to help promote use of EGS?
5. Environmental Considerations, addressing water use, land use, artificial reservoir fracturing, supplies to the electric grid.

Oral sessions will be highlighted by keynote speakers whose task will be to address the current understanding of the topic and indicate future directions of research. Session chairmen and “discussion leaders” will be designated for each of these sessions, charged with engendering discussion during the session, organizing and leading discussions during the breakout sessions, and formulating a “white paper” (~one page) of the major points raised, describing the “state of the art” and paths forward, for publication in the post-conference wrap-up.

Abstract Submittal:

Please send abstract (1-4 pages), including optional figures (up to 2) to both:

Debbi Boonstra
AAPG Education Dept.
P.O. Box 979
Tulsa, OK 74101-0979
Fax: (918) 560-2678
debbi@aapg.org

Gary Isaksen
ExxonMobil Exploration Co.
233 Benmar
Houston, TX 77210
Phone: (281) 654-7562, Fax: (281) 654-7222
gary.h.isaksen@exxonmobil.com

Specify that your abstract is for the AAPG 2011 Napa Hedberg Research Conference. Include all co-authors' names (including contact information for the primary author). An abstract cover sheet is required for all submitted abstracts. Log on to <http://www.aapg.org/education/hedberg/index.cfm>, or contact Debbi at AAPG to obtain this form.

Deadline for submission of abstracts: October 25, 2010

GEA Conducting Survey on Web Site Functionality

Posted 8/2010: GEA's web site, www.geo-energy.org has ongoing updates meant to provide you with accessible reports, information, links, and more.

We are aware of some glitches on our site — for example; there are some inconsistencies in viewing from different browsers. We are working on this; please help us solve any additional problems. Let us know:

- Have you run into any problems on GEA's site?
- Have you come across any antivirus warnings?
- Have you had any problems accessing files or links?
- Have you noticed any out-of-date information?
- Please report problems to Leslie Blodgett, leslie@geo-energy.org

Many thanks for your help! Recent updates to www.geo-energy.org include:

- Updates to Developing Projects and Power Plant information
- Video on YouTube
- Photos on Flickr
- Member Access includes presentations from all GEA events
- Member Data base searchable by field and location
- Notices, Jobs, and Proposals listed in the GEW are now also updated each week to the site.

Bloomberg New Energy Finance Publishes Geothermal – US Drilling Market Research Note

Posted 8/2010: Bloomberg has just published a Geothermal – US Drilling Market Research Note for its clients. Highlights covered in the Research Note:

- Fluctuations in the domestic oil price have pushed several oil and gas drillers into the geothermal market in an effort to keep their rigs busy;
- The added competition has driven down day rates and reduced wait times for rigs, both features highly favorable for geothermal developers; and
- The US geothermal drilling market is set to expand to over \$2bn/yr; or \$15bn+ to complete the over 4 GW in the current US development pipeline.

New Study on Water Issues Related to Shale Gas

Argonne National Laboratory, through funding provided by The U.S. Department of Energy's National Energy Technology Laboratory (NETL), has just released the final report on a study they completed on water issues relating to shale gas development in the Marcellus Shale. Entitled "Water Management Technologies Used by Marcellus Shale Gas Producers", it discusses:

- Controlling the storm water runoff from disturbed areas,
- Obtaining sufficient freshwater supply to conduct hydraulic fracturing (frac jobs) on new wells, and
- Managing the flowback water and produced water from the well (primary focus of the report)

Full copy of the report available at: http://www.evs.anl.gov/pub/dsp_detail.cfm?PubID=2537.

Los Angeles Department of Water and Power Integrated Resource Plan Open for Comment

The Los Angeles Department of Water and Power (LADWP) Draft 2010 Integrated Resource Plan (Draft 2010 IRP) is now out and open for comment. The draft is designed to provide a 20-year for ensuring Las Angeles energy needs are met and follow regulatory requirements and environmental policy goals. The Draft 2010 IRP adheres to the following objectives:

- * Reliability of the Power System
- * Regulatory compliance
- * Environmental stewardship, including pursuing renewable energy resources
- * Maintaining low and stable rates

Six regional workshops are taking place in September: <http://www.lapowerplan.org/registrations/new>. In addition, a survey launched on September 1st that allows community members to submit detailed input: <http://www.lapowerplan.org/surveys/1/responses/new>. For related documents and workshops visit <http://www.lapowerplan.org/>.



Employment

Employment Opportunities

For more details on employment opportunities listed here visit http://geo-energy.org/empl_opport.aspx.

Geothermal Faculty, Tenure Track, Dedman College, SMU (October 1 or until filled)

Tenure-track Assistant/Associate Professor in Geophysics: The Roy M. Huffington Department of Earth Sciences at SMU invites applications in two areas of geophysics: seismology and geothermics. The successful candidate will be expected to develop a research program that competes for external research funding and that complements and extends programs of the department; this includes teaching courses in the undergraduate and graduate programs. Applications can be submitted electronically or in writing and should include curriculum vitae, a statement of research and teaching interests and contact information for three referees to Professor Brian Stump, Search Committee Chair, Department of Earth Sciences, Southern Methodist University, PO Box 0395,

Dallas TX 75275 or to sschwob@smu.edu. A PhD is required at the time of appointment. The start date is August 1, 2011.

Senior Level Assistant Site Manager, Operations and Maintenance

Provides support to the Site Manager for the safe and efficient operation and maintenance of all power plant facilities and associated equipment in accordance with procedures, guidelines, and operating directives in effect. Provides day-to-day supervision for Operations and Maintenance Managers in the accomplishment of project goals and objectives. Accountable for documentation of departmental activities including, but not limited to summary of activity reports, revenue/generation reports, project completion reports (capital projects, major equipment failure, and predictive types), engineering design review reports and budget variances. Insures operations and maintenance are carried out in compliance with all local, state and federal regulations. Contact: Richard@mrspokane.com or call 509-340-2852 Ext. 18

Senior Principal Geothermal Geologist – Brisbane, Australia

Shane Stevens / Talent Search Team Manager, Origin
Email: Shane.stevens@originenergy.com.au
Phone: +61 00 11 73858 0237

GIS Specialist, Nevada Geothermal Power, Reno, NV

Please send resumes to careers@nevadageothermal.com

Vice President Geology, Western US

Please send resumes to Bstevens@stmassociates.com

Geothermal Openings, NREL, Boulder, CO

Go to http://www.nrel.gov/employment/job_openings.html and search “geothermal”

Drilling Manager, NV

Contact:
Andrew Matkovic / Vice President Clean Tech & Energy
(216) 539-7668 or andrewmatkovic@carmongroup.com

Geophysicist, Calpine, The Geysers, CA

To apply online, see
https://www.hrapply.com/calpine/AppJobView.jsp?link=3645&page=AppJobList.jsp&skimSessionName=com.hrlogix.view.cont.app.JobListTable&skimName=requisition.requisition_id&skimNdx=4&op=reset.

Renewable Energy Mechanical/Systems Engineer, Idaho International Laboratory, ID

Please contact:
Vanessa Van Dyk at Idaho National Laboratory: Vanessa.VanDyk@inl.gov, 208-526-6325
OR apply on line at: www.inl.gov/careers

Project Manager

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.
andrewmatkovic@carmongroup.com or (216) 539-7668
(updated 8/20/10)

Development Manager

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.
andrewmatkovic@carmongroup.com or (216) 539-7668
(updated 8/20/10)

Project Manager Geothermal Exploration, EuropeContact: droboters@penderfinancial.com**Requests for Proposals****Closing This Week****Environmental Justice – Gulf of Mexico Oil Spill (October 4)**

The U.S. Environmental Protection Agency requests proposals for Environmental Justice Cooperative Agreements in support of communities directly affected by the Deepwater Horizon oil spill in the Gulf of Mexico. The purpose of this RFP is to assist local communities facing environmental justice challenges in addressing and adapting community responses to local long-term environmental and/or public health issues as they relate directly to the oil spill. \$300K expected to be available, up to 10 awards anticipated. Responses due 10/4/10. Funding for projects is limited to areas in AL, FL, LA, MS, and TX directly affected by the spill. For more info, contact Sheila Lewis at lewis.sheila@epa.gov or go to: <http://www.epa.gov/compliance/ej/grants/bp-spill-grants.html>. Refer to Sol# EPA-OECA-OEJ-10-02. (Grants.gov 8/11/10)

Renewable Energy Feasibility Grants (October 5)

The U.S. Department of Agriculture requests proposals for Renewable Energy Feasibility Grants. This RFP will provide funds to agricultural producers and rural small businesses to conduct feasibility studies for renewable energy systems. \$3 million expected to be available, up to 110 awards anticipated. Responses due 10/5/10. For more info, including contacts, go to: <http://www.grants.gov/search/search.do?mode=VIEW&opId=56574>. Refer to Sol# RDBCP-10-REAP-FEASIBILITY. (Grant.gov 8/12/10)

Clean Energy RFP Offering up to \$150K, NIREC (October 5)

The Nevada Institute for Renewable Energy Commercialization (NIREC) has opened a new call for proposals supporting clean energy innovations. The new clean energy RFP offering is up to \$150,000 in funding and services per project

About the RFP

Pre-Proposal Due Tuesday, September 14, 2010, 2:00 pm PDT

Project Proposal Due Tuesday, October 5, 2010, 2:00 pm PDT

Apply to one of two award tracks: NIREC Research Partner Track (DRI, UNR, UNLV, UC Davis) or U.S.-based Early-Stage Company Track

Through this award, NIREC provides funding and pre-commercialization services worth \$150,000. Applicants submit a budget of up to \$100k and NIREC provides up to an additional \$50k in business planning services in the form of an Entrepreneur-in-Residence (EiR) who guides the commercialization process. At the end of a successful NIREC engagement, projects will be well on the way to achieving that next very important funding milestone toward commercialization.

No cost sharing or program fees are required. To ensure NIREC can continue to provide valuable funding and services, NIREC expects to share in the success of the businesses it helps cultivate. Get the application guide and application documents: <http://www.nirec.org/rfp2010Apply.html>

Power, Controls and Adaptive Networks, NSF (October 7)

The National Science Foundation requests proposals for Power, Controls and Adaptive Networks. This program supports distributed control of multi-agent systems with embedded computation for sensor and adaptive networks. This program emphasizes electric power networks and grids, including generation, transmission and integration of renewable, sustainable and distributed energy systems, such as fuel cells and micro-turbines in large power networks; high power electronics and drives; and understanding of associated regulatory and economic structures. The program also emphasizes energy scavenging and alternative energy technologies, including solar cells, ocean waves, wind, geothermal, low-head hydro, and the hydrogen economy. In addition, the program

supports generation and integration in the National Grid (InterGrid), and interdependencies of critical infrastructure in power and communications. Responses due 10/7/10. For more info, contact Radhakishan Baheti at rbaheti@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13380. Refer to Sol# PD-10-1518. (Grants.gov 2/17/1)

New This Week

Long-Term Renewable Resources, Seattle City Light (October 20)

Seattle City Light invites proposals for the long-term supply of renewable energy to be generated by projects located in the Pacific Northwest, as defined by Washington State's renewable portfolio standard, chp. 19.285 RCW (I-937). City Light intends to select one or more preferred proponents for purpose of entering into the negotiation of a power purchase agreement (PPA) and/or the acquisition of the environmental attributes associated with an eligible renewable resource. City Light is targeting the acquisition under this RFP of up to 200,000 MWh/year of energy, Renewable Energy Credits (RECs), or a combination of energy and RECs, for a period of fifteen years or longer. City Light will also consider proposals for equity ownership. Proponents, Submittal of Requests for Information and Clarification on RFP due October 1st, Notice of Intent to Respond Due to City Light October 6, and Proposals Due to City Light October 20. The entire RFP and other documents are posted at http://www.seattle.gov/light/News/RFI_RFP/rfp_ra1.asp

Proposal Announcements

Partner Sought for Hot Oil and Gas Wells, Mississippi

Rich McAadoo (rlmcadoo@continentalenergy.com) is seeking local operators or parties with access to properties with hot oil or gas wells (shut-in or production) located in Mississippi. If you are looking for a financial and technical partner to develop coproduction of geothermal fluids with oil and gas in Mississippi, send him an email.

Call for Geothermal Exploration Proposals, Neuquén, Argentina

The Government of the province of Neuquén, Argentina has issued a call for geothermal exploration proposals in the Domuyo area, located 560 km from the capital city of the Province of Neuquén. The exploration contract allows exploitation of the minerals discovered for a period of up to 25 years. The successful bidder may request to receive the promotional benefits and incentives. The documentation containing the terms and conditions is on sale, and a non-commercial copy is available on the agency's web site. To request additional information, please contact the Agency: info@adinqn.gov.ar or the Vice Presidency of ADI-Nqn: Igalardi@adinqn.gov.ar ; Phone: +54 299 4494749; Mobile: +54 9 299 5552842 - www.adinqn.gov.ar

A 7thspace.com article provides more background on the area: see http://7thspace.com/headlines/355477/geothermal_energy_national_and_international_public_call_for_domuyo_project_neuquen_province.html.

Power Forecast, Haiti, TDA

The U.S. Trade and Development Agency announces its intent to request proposals to provide technical assistance to forecast future power demand in Haiti and assist governmental and private sector entities in Haiti in developing a strategy to generate, transmit and distribute power to both urban and rural areas, to encourage Haiti's recovery from the disastrous earthquake and to fuel economic growth. The assistance will include the identification, assessment and quantification of renewable energy options such as wind, solar and biomass. \$800K expected to be available. For more info, contact Jason Bell at jbelle@ustda.gov or go to: https://www.fbo.gov/?s=opportunity&mode=form&id=381bf13f574e4baee474468a6f994556&tab=core&_cview=0. Refer to Sol# CO2010510006. (FBO 6/5/10)

Manufacturing and Construction Machines and Equipment

The National Science Foundation requests proposals for Manufacturing and Construction Machines and Equipment. This program supports fundamental research leading to improved machines and applications for both manufacturing and construction. Key goals are to advance the transition of these industries from skill-based to

knowledge-based activities and to develop them as activities with minimal environmental and societal impact. Research projects addressing renewable energy have been awarded in 2010. \$300K expected to be available. For more info, contact George Hazelrigg at ghazelri@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13346. Refer to Sol# PD-10-1468. (Grants.gov 8/20/10)

Geothermal Company in Kenya Seeks U.S. Supplier (October 12)

A geothermal company in Kenya seeks a U.S. company to supply:

- Geothermal Steel Casings
- Casings Head Flanges
- Slotting Steel Liners
- Liquid Drilling Detergent
- Drilling Rock Bits
- Drilling Mud and Mud Additives

The deadline for the companies to submit a tender is October 12.

Contact: Martin Kabaki, Cell: 904 236 9966, martin1980june@yahoo.com

Works Procurement Notice, Drilling Of Geothermal Wells in Roseau Valley, Commonwealth of Dominica (October 25)

The Government of the Commonwealth of Dominica through the Ministry of Public Works Energy and Ports – Geothermal Project Management Unit, intends to procure the services of a drilling contractor to drill at least three geothermal wells in the Wotten Waven / Laudat area. The objective of the project is to prove the existence of high enthalpy geothermal resource suitable for commercial generation of electric power and to determine the capacity for sustainable exploitation. Services to be provided by the contractor include mobilization and demobilization of the drilling rig and associated equipment, drilling of at least three wells, provision of cementing, drill-pipe inspection, and vertical drilling expertise. The provision of drilling mud and related additives and well testing services will also be required. Deadline is 9:00am Eastern Caribbean Time on October 25, 2010.

Attendance at an information meeting and site visit on August 17, 2010, at 09:00 am is strongly recommended. Contact the Project Management Unit, Ministry of Public Works, Energy and Ports, Government Headquarters Roseau. Telephone: (767) 266- 3616/8/; 266 -3294/3296 Fax: (767) 448-0182. Email: pmu.geotheremal@gmail.com; geothermal@dominica.gov.dm.

Send questions in writing to geothermal@dominica.gov.dm and c/o The Project Coordinator, Geothermal Project Management Unit, Ministry of Public Works, Energy & Ports, 3rd Floor Government Headquarters, Roseau, Commonwealth of Dominica, mentioning the publication reference (EuropeAid/130061/D/WKS/DM) at least 21 days before the deadline for submission of tenders. The Contracting Authority must reply to all tenderers' questions at least 11 days before the deadline for submission of tenders. Eventual clarifications or minor changes to the tender dossier will be published at the latest 11 days before the submission deadline on the EuropeAid website at <https://webgate.ec.europa.eu/europeaid/online-services/index.cfm?do=publi.welcome>.

Indian Community Development Block Grant (October 27)

The U.S. Department of Housing and Urban Development request proposals for the Indian Community Development Block Grant (ICDBG). ICDBG supports the development of viable Indian and Alaska Native communities, including the creation of decent housing, suitable living environments, and economic opportunities primarily for persons with low- and moderate-income. Funds may be used to improve housing stock, provide community facilities, improve infrastructure, and expand job opportunities. Area of interest include, but are not limited to: Energy Efficiency/Green Development, and Lead-Based Paint Evaluation and Hazard Control. Lead applicants must be Indian tribes or tribal organizations on behalf of Indian tribes. \$65 million expected to be available. Responses due 10/27/10. For more info, go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=56858>. Refer to Sol# FR-5415-N-08. (Grants.gov 8/24/10)

New Clean Renewable Energy Bonds, Electric Cooperatives (November 1)

A new round of New Clean Renewable Energy Bonds are available exclusively to electric cooperatives from the unallotted \$191 million portion of the 2009 \$800 million national bond Volume Cap. Allocations of New CREBs Volume Cap are valid for three years after the date of the letter issuing the allocation. The application deadline is November 1, 2010.

Contact:

Tracy Warren, NRECA
tracy.warren@nreca.coop
PH: 703-907-5746
Cell: 703-517-3411

National Environmental Information Exchange (November 5)

The U.S. Environmental Protection Agency requests proposals for the National Environmental Information Exchange Network Grant Program. This program supports the exchange of environmental data and collaborative work within the Exchange Network and may also be used to fund the standardization, exchange and integration of geospatial information to address environmental, natural resource, and human health challenges. \$10 million expected to be available, up to 50 awards anticipated. Responses due 11/5/10. For more info, contact Ryan Humrighouse at humrighouse.ryan@epa.gov or go to: <http://www.epa.gov/networkg/grants/>. Refer to Sol# EPA-OEI-11-01. (Grants.gov 8/13/10)

Climate Change and Health, HHS

The U.S. Department of Health & Human Services requests proposals for Climate Change and Health: Assessing and Modeling Population Vulnerability to Climate Change. This RFP encourages research of risk factors of populations that lead to or are associated with increased vulnerability to exposures, diseases, and other adverse health outcomes related to climate change. For more info, including funding and program contacts, go to: <http://grants.nih.gov/grants/guide/pa-files/PAR-10-235.html>. Refer to Sol# PAR-10-235. (Grants.gov 7/21/10)

Climate Data Record Program, Commerce, NOAA (November 10)

The U.S. Department of Commerce, NOAA, requests proposals for the Climate Data Record Program. This program seeks to support the development and stewardship of Climate Data Records for the atmosphere, cryosphere, oceans, and land surface. \$2.5 million expected to be available, up to 15 awards anticipated. Letters of Interest due 9/15/10, final proposals due 11/10/10. For more info, contact Linda Statler at Linda.S.Statler-at-noaa.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&opId=56019>. Refer to Sol# NOAA-NESDIS-NESDISPO-2011-2002566. (Grants.gov 11/10/10)

Energy Production with Innovative Methods of Geothermal Heat Recovery, DOE (November 30)*From DOE:*

Funding Opportunity Announcement Number: DE-FOA-0000336

Announcement Type: Initial

CFDA Number: 81.087

Issue Date: 08/19/2010

Pre-Application Due Date: 10/01/2010, 11:59 P.M. Eastern Time

Full Application Due Date: 11/30/2010, 11:59 P.M. Eastern Time

REGISTRATION AND APPLICATION SUBMISSION REQUIREMENTS

Registration Requirements: Allow at least 21 days to complete registrations.

To submit an application under this announcement, complete the following registrations:

1. Obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, at <http://fedgov.dnb.com/webform>.
2. Register in the Central Contractor Registration (CCR) system, at <https://www.ccr.gov/>.

Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in CCR registration. These items are needed to submit applications in Grants.gov. Update your CCR registration annually.

3. Register in Grants.gov at <http://www.grants.gov/>. See the Organization Registration User Guide at <http://www.grants.gov/assets/OrgRegUserGuide.pdf>. The Applicant User Guide is at <http://www07.grants.gov/assets/ApplicantUserGuide.pdf>.
4. Register in FedConnect at <https://www.fedconnect.net/>; use "Register as a Vendor" link. To create an organization account, your organization's CCR MPIN is required.

Where to Download the Application Package:

Download the Application Package for this announcement at <http://www.grants.gov/>. Click on the "Apply for Grants" link; then, click on the "Download a Grant Application Package" link and follow the instructions. Insert the announcement number to download the Application Package.

Where to Submit the Application Package:

Applications must be submitted through [Grants.gov](http://www.grants.gov/) to be considered for award. Follow instructions in the User's Guide for application submissions. Applicants are responsible for verifying successful transmission, prior to the Application due date and time.

Where to Ask Questions About the Funding Opportunity Announcement Content:

To ask questions about the Funding Opportunity Announcement, use FedConnect at <https://www.fedconnect.net/>. You must be a registered user in the system and submit questions by sending messages in your FedConnect email box. Part VII of this announcement explains how to submit questions to the Department of Energy (DOE).

Where to Submit Questions About the Registrations or Systems:

DUNS & Bradstreet: govt@dnb.com

Central Contractor Registration (CCR) system: <https://www.bpn.gov/ccr/contactccr.aspx>, By phone: 866-606-8220 or 334-206-7828 (8:00 A.M. to 8:00 P.M., Eastern Time)

Grants.gov: support@grants.gov, By phone: 1-800-518-4726 (7:00 A.M. to 9:00 P.M., Eastern Time)

FedConnect: support@FedConnect.net, By phone: 1-800-899-6665 (8:00 A.M. to 8:00 P.M., Eastern Time)

Industry/University Cooperative Research Centers (February 2, 2011)

The National Science Foundation requests proposals for Fundamental Research Program for Industry/University Cooperative Research Centers. This program provides support to centers to conduct fundamental research to better position themselves as leaders in emerging areas that could benefit the industries that they serve. Areas of interest include, but are not limited to: Energy and the Environment; and Advanced Manufacturing. \$1.6 million expected to be available, up to 10 awards anticipated. Responses due 2/2/11. For more info, contact Rathindra DasGupta at rdasgupt@nsf.gov or go to: <http://www.nsf.gov/pubs/2010/nsf10601/nsf10601.htm>. Refer to Sol# 10-601. (Grants.gov 8/17/10)



Events

New This Week

Geothermal Energy Expo 2010: Four Booth Spaces Remain

If you plan on exhibiting at our 2010 Expo and have not yet registered, please register soon. There are only 4 booth spaces remaining. For more information and to register, please visit our website at:

<http://www.geothermalenergy2010.com/>



October 24-27, 2010 | Sacramento Convention Center | Sacramento, CA

To view the floor plan for the 2010 Expo, please go to: http://www.geothermalenergy2010.com/floor_plan.asp

To register as an Exhibitor, please go to: <http://www.geothermalenergy2010.com/registration.asp>

To view the Exhibitors contract for 2010, please go to: <http://www.geothermalenergy2010.com/contract.asp>

Hope to see you there! Please do not hesitate to let us know if you have any questions: Kathy@geo-energy.org

GEA Events

Invitation to GEA Critical Issues Workshop and Annual Members Meeting, Sacramento, CA (October 23)

You are invited!

GEA Annual Members Critical Issues Workshop and Members Meeting
Hyatt Regency Hotel, Room C, Sacramento, CA
Noon-6:00pm
Saturday, October 23

A driving issue for public policy in California and Washington DC is global warming. The Geothermal Energy Association will be holding a half-day workshop exploring the issue of global warming, its potential to influence geothermal development, and what it will mean in practical and legal terms for geothermal companies in the coming years.

The questions about how climate change will impact energy markets are extensive, and can potentially affect every geothermal company in many different ways. This workshop will explore those issues, and try to answer questions like:

- Will Congress move forward on climate legislation, and will it help or hurt new geothermal projects?*
- What will geothermal companies be required to do under new climate laws and regulations?*
 - How will global warming affect my company's bottom line?*
 - What does California's implementation of AB 32 mean for my company?*
 - How could federal EPA regulations impact the energy market in coming years?*

Invited Speakers Include Representatives From:

US EPA
US Department of the Interior
US Department of Energy

US Department of Commerce
California Air Resources Board
California Energy Commission
California EPA
California PUC
Stoel Rives, LLP
Wilson, Sonsini, Goodrich and Rosati
The Geothermal Energy Association

Speakers and Panelists will explore the issues of how climate change laws and regulations will impact geothermal companies from Noon to 4pm. At 4pm, GEA will begin its annual members meeting with presentations about GEAs activities over the past year, and a look forward at its activities and priorities for 2011. GEA will also be holding elections for open seats on its Board of Directors.

The meeting is open free of charge to GEA Members companies. An invitation to participate is also being extended to the many exhibitors at the GEA Expo, which will be held in Sacramento from October 24-27, and to representatives of GRC member companies on a space available basis. Although there is no charge for participation, pre-registration is strongly encouraged. You can reserve your space for the workshop and members meeting by registering at: <http://www.gifttool.com/registrar/ShowEventDetails?ID=1872&EID=7810>.

Contact: Kathy Kent, Kathy@geo-energy.org or Karl Gawell, karl@geo-energy.org

GEA Geothermal Energy Expo and GRC Annual Meeting, Sacramento, CA (October 24-27)

Tweeting about your GEA Expo plans? Use tag #GEAEXPO. And follow us here: @GEAGeoEnergy.

With the GEA Geothermal Energy Expo® right around the corner, GEA has opened visitor registration to walk the halls of the biggest geothermal expo in the world. Registration for visitors is available at: <http://www.geothermalenergy2010.com/visitors.asp>.

Come see the more than 150 exhibitors of this years Expo including: 101 Pipe & Casing, Inc., Alstom Power, Ashland, Inc., Atlas Copco Mafi-Trench Company LLC, Ausenco PSI, Baker Hughes, Bakersfield Pipe and Supply, Baroid Industrial Drilling Products, BM Engineering & Construction Comp., Boart Longyear Drilling Services, Boart Longyear/Energy Products, Boise State, Bolttech Mannings, Brush Turbogenerators, BS&B Safety Systems, LLC, Bureau of Land Management, CA Division of Oil, Gas, & Geothermal Resources, California Energy Commission, Cameron, Campbell Scientific, Chevron Global Lubricants, City of Reno, Composite Cooling Solutions, Cryostar, CSE Engineering, Inc., Department of Energy, Geothermal Technologies Program, Department of Navy, Geothermal Program Office, Dewhurst Group, DHI Services, Inc., DOSECC Exploration Services, Dresser-Rand, Ecology & Environment, Inc., ElectraTherm, Inc., Emerson Process Management, EMPSi, Ensign Energy, EvapTech, Inc, Expro Americas LLC, Freemyer Industrial Pressure, Fuji Electric, GEFCO- Newsom Industries, Geo-Heat Center, George T. Hall Company, Geotech Ltd., GeoTek Energy, LLC, Geothermal Development Associates, Geothermal Education Office, Geothermal Energy Association, Geothermal Resources Council, GeoThermHydro, Gradient Geophysics, Inc., Great Basin Center for Geothermal Energy, Halliburton, Holland & Hart LLP, Holtec International, Horizon Well Logging, Ind Valco, Reno-Win, & Beric Valves, Industrial Cooling Solutions, Industrial Tests, Inc., Institute of Earth Science & Engineering, Islandsbanki, Itasca International Inc., ITT, JBR Environmental Consultants, Inc., JD Rush Company, Kelly Pipe, Kiewit/TIC, Kuster Company, L.A. Turbine Corporation, Layne Christensen, Linear Power, Machine Support Technologies, Inc., MadgeTech, Inc., Magma Energy Corporation, Major Drilling America Inc., MEGTEC Systems, Mill Man Steel, Mitsubishi Power Systems Americas, Nalco, Nash, A Gardner Denver Product, National Oilwell Varco, Nevada Commission on Economic Development, Ormat Technologies, Inc., Pacific Process Systems, Inc., Perma Works LLC, Plymouth Tube Company, Potter Drilling, Inc., POWER Engineers, Inc., PowerChem Technology, Pratt & Whitney Power Systems, Precise Propellant Stimulation, LLC, Processes Unlimited International Inc., Quantec Geoscience, Rain for Rent, Ram Power, Raser Technologies, Rattler Energy, Rigger Engineering, RMT, Inc., Rocky Mountain Oilfield Testing Center, Rotork Controls, Inc., Ruen Drilling, Inc., Sacramento Municipal Utility District (SMUD), Schlumberger, Siemens Industry, Inc., SnapOn Industrial, SNC-Lavalin Thermal Power, SpecTIR, SPX Corporation, Stoel Rives LLP, Stork H&E Turbo Blading Inc., Sunrise Engineering, Inc., TAS, TBA

Power, Inc., Team Australia Geothermal, Tenaris, The Shaw Group, ThermaSource, LLC, Tiger Energy Services, Titan Metal Fabricators, TIX Corporation, TNG Energy Services, Inc., Toshiba International Corp, TRE Canada Inc., Tricor Metals, TurboCare, Tyco Flow Control, Vooner FloGard Corporation, WEC Welding and Machining, Well Analysis Corporation, Wellons Water Technology, Western Cultural Resource Management, Inc., Western Environmental Testing Laboratory, Wolseley, Wolverine Tube, Inc., Wood Group Field Services, WorleyParsons, Zapata Geophysics, and Zonge Engineering.

Every year, the Geothermal Energy Expo® hosts the world's largest gathering of vendors providing support for geothermal resource exploration, characterization, development, production and management. It provides a unique opportunity for exhibitors to showcase their projects, equipment, services and state of the art technology to the geothermal community. The Expo is held in conjunction with the GRC Annual Meeting, www.geothermal.org.

Last year's count was 2300 participants and planning shows this year's numbers will top it. This year the Expo will be held in Sacramento, CA at the Sacramento Convention Center Complex, a component of the City of Sacramento Convention, Culture and Leisure Department.

Exhibitor Benefits include:

- * 50-word company listing in the official event guide
- * Exhibit Booths are 10' x 10' and has an 8' high back drape and 3' high side drapes
- * A 7" x 4" identification sign with the Exhibitor's name and space number
- * Each booth will also include a table, two chairs and a wastebasket.
- * Enhanced Exhibitor Listing on event website, www.geothermalenergy2010.com
- * For every 100 sq ft exhibitors receive 3 booth staff passes

To view the floor plan for the 2010 Expo, please go to: http://www.geothermalenergy2010.com/floor_plan.asp

To register as an Exhibitor, please go to: <http://www.geothermalenergy2010.com/registration.asp>

To view the Exhibitors contract for 2010, please go to: <http://www.geothermalenergy2010.com/contract.asp>

More information including sponsorship opportunities, room block, and special events coming soon. We are looking forward to another great Expo! Please do not hesitate to let us know if you have any questions.

Contact: Kathy@geo-energy.org

Geothermal Energy Expo Sponsorship Opportunities

Sponsorship Opportunities – contact Kathy Kent at kathy@geo-energy.org

Water Sponsor - \$3,500 (Exclusive)

SOLD: TNG Energy Services

Benefits:

- Sponsor logo placement on water station and Eco Sports Bottle to be given out to Expo attendees
- Recognition on GEA/GRC site
- Recognition on signage on Expo Hall

Exhibition Aisle Signs – 1/ Aisle Section - \$1,000 (Limit 8)

SOLD: Mitsubishi Power Systems

Benefits:

- Logo on aisle sign
- Proportional logo on event guides

Geo-Cyber Area Sponsorship - \$5,000 (Exclusive)

SOLD: Geothermal Resource Group

Benefits:

- 20 x 20 space with two desktop computers with internet connection and printer in 2010 Expo Hall
- Offers the opportunity for technical and management professionals from around the world to come together and networking/round tables and chairs

- Company logo on signage of the “Cyber Space”
- Company’s website set to default for all computer screen savers
- Recognition on signage on Expo Hall

Expo Triangular Eco-Highlighters - \$2,500 (Exclusive)**SOLD: Ruen Drilling**

Benefits:

- Company name and logo on Expo Hall pens given out with attendee bag
- Sponsor receives recognition on GEA website and on Expo Guide

Expo Eco-Pens - \$2,000 (Exclusive)**SOLD: Ram Power Corporation**

Benefits:

- Company name and logo on Expo Hall pens given out with attendee bag
- Sponsor receives recognition on GEA website and on Expo Guide

GRC Annual Meeting and GEA Geothermal Energy Expo® Mutual Sponsorships 2010Sponsorship Opportunities – contact Kathy Kent at kathy@geo-energy.org**Platinum Level** - \$30,000 (Limited to maximum of 5 sponsors)**SOLD: Halliburton**

Benefits:

- Sponsorship of Opening Reception, Sunday evening, October 24, 2010
- Formal acknowledgement at Opening Reception, Sunday evening, October 24, 2010
- (1) 10’x20’ booth space within Expo
- (3) complimentary full conference passes
- Prominent display of name/logo on event guides
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A full page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Gold Level - \$15,000 (Limit 5)**SOLD: Steel Rives LLP**

Benefits:

- (1) 10’x10’ booth space within Expo
- (2) complimentary full conference passes
- Prominent display of name/logo on event guides
- Formal acknowledgement at Opening Reception
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A half page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Silver Level - \$7,500 (Unlimited)**SOLD: City of Reno**

Benefits:

- Proportional logo on event guides
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A quarter page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Breaks**Afternoon Coffee and Sweets, Monday - \$5,000 (Exclusive)****SOLD: The Shaw Group**

Benefits:

- Signage on buffet tables

- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Morning Coffee, Tuesday - \$2,500 (Exclusive)

SOLD: Enel North America/Enel Green Power

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Afternoon Coffee and Sweets, Tuesday - \$5,000

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Morning Coffee, Wednesday - \$2,500

SOLD: POWER Engineers

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Variety Items**Neck Wallets - \$10,000 (Exclusive)**

SOLD: Calpine Corporation

Benefits:

- One color sponsor logo placement on 2010 neck wallets to be worn by all attendees
- Proportional logo on event guides
- Recognition on GEA/GRC site
- Recognition on signage on Expo Hall

Annual Meeting and Expo Delegate Bags - \$15,000 (Exclusive)

SOLD: Ormat Technologies

Benefits:

- One color sponsor logo placement on bags to be given out to all of the 2010 attendees
- Proportional logo on event guides
- Recognition on GEA/GRC site
- Company literature inserted into attendee bags
- Recognition on signage in Expo Hall

GEA would like to thank our media partners for the Geothermal Energy Expo 2010: NA Clean Energy, RenewableEnergyWorld.com, Thinkgeoenergy.com, and AltEnergyMag.com.

AltEnergyMag.com-- A News and Information Resource for Alternative Energy. Daily News Stories, Hot Products, Industry Tools, Hundreds of Articles and more. Join with 35,000+ industry players and alternative energy enthusiasts who visit each month to find out how to grow their businesses and expand their knowledge. To stay in the know ... please subscribe to our AltEnergyMag.com Industry Newsletter so we can keep you informed on all the latest news, products, and marketing opportunities to grow your business.

<http://www.altenergymag.com/subscribe.php>.

Why Should You Attend GEA Events?

As the national trade association for the geothermal industry, the Geothermal Energy Association (GEA) strives to create and deliver educational events involving the full range of the geothermal industry, reflecting the dynamic growth of the geothermal market, and communicating the benefits of geothermal energy to all. GEA events offer important opportunities to learn and network within the geothermal community, and to inform and educate companies and organizations outside today's industry that are interested in learning more about geothermal energy. The revenue generated from GEA events is used to advance the goal of the GEA, "to expand the production and use of geothermal energy in the United States and around the world." The revenue supports GEA's workshops and events, communications activities, outreach efforts, policy related activities and analysis, internet publications, and other initiatives designed to help achieve this goal. ONLY GEA puts your dollars to work in all of these ways to advance the future of the geothermal energy industry. And, GEA does not sell your email or postal address to junk mailers or spammers.

To keep track of new events and changes to this calendar go to: www.geo-energy.org.

Other Events

Geothermal Investment Forum and Networking, CanGEA, Toronto, ON (October 13)

Geothermal Investment Forum and Networking Event (October 13th, 2010 – Toronto, ON), Toronto Geothermal Power Investment Workshop and Networking Reception. As the number of investor prospects in geothermal power continues to broaden, a trusted forum for investor education and networking in the geothermal power industry has been absent. This exciting annual event aims to deliver a one-stop solution through a series of expert-led presentations and networking reception. See <http://www.cangea.ca/events/>.

XVII Congress of the Mexican Geothermal Association, Morelia, Mich., Mexico (October 15)

Mexican Geothermal Association (AGM: Asociación Geotérmica Mexicana)
<http://www.geotermia.org.mx>

Caribbean Renewable Energy Forum, the Bahamas (October 13–15)

To view the latest agenda please follow this link: www.caribbeanenergyforum.com/agenda.php. To qualify for a 15% early bird discount on the registration fee, please register by July 16th. To register please follow this link: www.caribbeanenergyforum.com/attend.php?sub=register.

5th International Conference on Renewable Energy Investments, Chile (November 9–11)

On November 9th - 11th, the Ministry of Energy, the Chilean Economic Development Agency and the Center for Renewable Energy will hold the 5th International Conference on Renewable Energy Investments. For more information please visit the conference website: www.chilerenewables.com

Australian Geothermal Energy Conference, SA, Australia (November 16–19)

Australian Geothermal Energy Association
<http://www.ausgeothermal.com/>

Geothermal Investment Forum and Networking Event, CanGEA, Calgary, AB (December 2)

Geothermal Investment Forum and Networking Event (December 2nd, 2010 – Calgary, AB), Calgary Geothermal Power Investment Workshop and Networking Reception. CanGEA is proud to host, geothermal developers, investors, energy companies and policy makers, to explore advances and opportunities in the industry. See <http://www.cangea.ca/events/>.

GeoPower Europe, European Geothermal Energy Council, Paris, France (December 8–9)

For the current agenda and to register, visit
<http://www2.greenpowerconferences.co.uk/EF/?sSubSystem=Prospectus&sEventCode=GE1012FR&sSessionID=8ae2803966ed82ae2265bfed68f83b92-1060598>.

POWER-Gen International, Orlando, FL (December 14–16)

<http://www.power-gen.com/index.html>

Renewable Energy World North America 2011, Tampa, FL (March 8–10, 2011)

<http://www.renewableenergyworld-events.com/index.html>

Geothermal Energy Utilization Associated with Oil and Gas Development, SMU Geothermal Laboratory, Dallas, TX (June 13–15, 2011)

<http://smu.edu/geothermal/>

GEOHERMAL ENERGY WEEKLY

A newsletter for the geothermal industry written by Leslie Blodgett and Karl Gawell

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