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

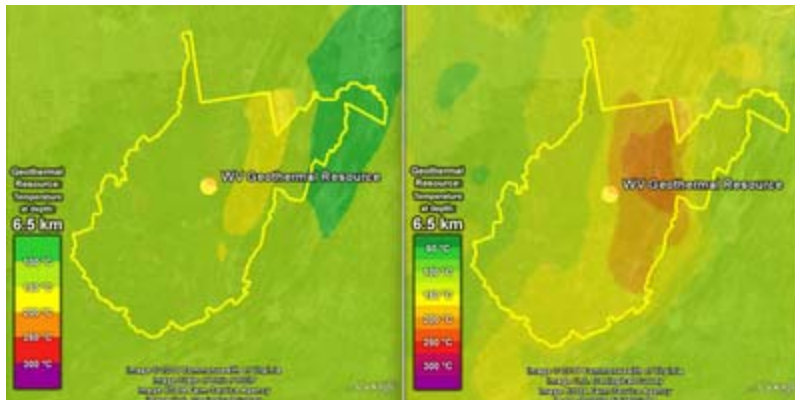


National News

New Data Increases Estimates of West Virginia Geothermal Potential by 75%

West Virginia is now the state with the largest known geothermal reserve in the Eastern U.S. Through research sponsored by Google.org to map geothermal resources in the U.S., the Southern Methodist University Geothermal Lab to map geothermal resources in the U.S., measurements were taken on over 1450 wells and have shown areas with 200°C hot spots at 5-km depths. By comparison, Nevada hot spots at the same temperatures are found at 2 km. Coal is cheap in West Virginia so likely avenues of utilization include using the existing network of power lines to export geothermal power to Maryland, Virginia, and Pennsylvania, Michael Hohn, official state geologist told press.

The SMU Geothermal Laboratory has increased its estimate of the state's geothermal generation potential to 18,890 MW, a 75% increase over estimates in MIT's 2006 "The Future of Geothermal Energy" report, according to their press release. Before-and-after Google Earth images show the difference:



SMU researchers will present a detailed report at the 2010 Geothermal Resources Council annual meeting in Sacramento, October 24–27. The report abstract follows:

A large area in eastern West Virginia has been found to have elevated heat flow and upper crustal temperatures compared to the rest of the eastern United States. The high heat flow has been recognized based on interpretation of bottom-hole temperature (BHT) data from oil and gas drilling in the area. The high heat flow is located within the western part of the Appalachian Mountains. There are several possible explanations for the observed thermal regime given the existing data that can only be resolved by more accurate determination of the temperature and heat flow in this area. The temperatures are high enough to make this the most attractive area for Geothermal Energy development in the eastern 1/3 of the country and the heat in place is sufficient to support large scale development of Enhanced Geothermal Systems.

See <http://news.sciencemag.org/sciencenow/2010/10/west-virginia-is-a-geothermal-ho.html>

SMU Press Release: <http://smu.edu/smunews/geothermal/>, Report summary:

<http://smu.edu/smunews/geothermal/documents/west-virginia-temperatures.asp>

Google.org blog: <http://blog.google.org/2010/10/west-virginia-country-roads-to.html>

U.S. and Iceland Sign Bilateral Agreement for Geothermal Deployment at Reykjavik Geothermal Meetings

On October 6, as part of a week of international meetings on geothermal energy held October 3-9 in Reykjavik, Iceland, the United States and Iceland, represented by U.S. Ambassador to Iceland, Luis Arreaga, and Icelandic Minister of Industry, Energy, and Tourism, Katrín Júlíusdóttir signed a bilateral agreement for the for Scientific and Technological Cooperation on Geothermal Research and Development. The agreement was initiated as part of efforts by the International Geothermal Partnership for Geothermal Technology (IPGT) for expanded deployment of geothermal resources.

The IPGT, which includes representatives from the U.S., Iceland, and Australia, also welcomed Switzerland as its fourth member country this week, bringing increased technical expertise on induced seismicity to the collaboration. Nations represented in Reykjavik during the week's events included Australia, Belgium, Canada, Czech Republic, France, Germany, Greece, Iceland, Italy, Japan, Mexico, New Zealand, Netherlands, Norway, Republic of Korea, Slovakia, Spain, Switzerland, and the U.S., according to a DOE release.

The agreement names 6 areas of cooperation such as information exchange, promotion of appropriate technical, political, financial, and regulatory environments, joint projects, and peer reviews. It names 17 forms of cooperation including both conducting and promoting collaborative research activities, establishing guidelines and reporting results, and identifying key obstacles.

Visit the [International Partnership for Geothermal Technology Web site](#)
DOE's [Geothermal Technologies Program Web site](#)

Bingaman, Snowe Call for Swift Action on New Clean Energy Tax Incentives Act

U.S. Senate Energy and Natural Resources Committee Chairman Jeff Bingaman (D-NM) and Small Business and Entrepreneurship Committee Ranking Member Olympia J. Snowe (R-ME) have introduced a package of clean energy tax incentives they are now trying to push through before Congress adjourns in December. The Advanced Energy Tax Incentives Act of 2010 (S. 3935) includes energy efficiency provisions for home and business owners and manufacturers and an energy storage system incentive to benefit developers and utilities. "Our bill will significantly expand domestic clean energy manufacturing; help American businesses and families reduce their energy use and dependence on fossil fuels; and creating thousands of jobs," said Bingaman. "This is a common-sense, bipartisan proposal that deserves priority consideration."

See http://www.tradingmarkets.com/news/stock-alert/adeq_bingaman-snowe-introduce-package-of-clean-energy-tax-incentives-call-for-swift-enactment-1203822.html

Senator Graham Introduces Clean Energy Standard with Incentives for Nuclear Power

From Sustainable Energy Coalition/SUN DAY Campaign: U.S. Senator Lindsey Graham (R-SC) has announced the introduction of a clean energy standard bill (no bill number yet) that would require utilities to generate a percentage of their electricity from "clean energy" sources that include renewables, nuclear, and "clean coal." His bill would start with a 13 percent target in 2013, increasing to a 20 percent target in 2020, and by another five percent every five years thereafter.

See http://info.bna.com/climate/summary_news.aspx?ID=144554

GEA Geothermal Expo to Feature Virtual Job Fair

GEA Press Release — The renewable energy sector continues to offers a bright spot for job seekers, even as the United States faces historically high unemployment rates. To connect qualified applicants with the industry's leading companies, the Geothermal Energy Association (GEA) announces that it will host a virtual job fair at the 2010 Geothermal Energy Expo, held in Sacramento Oct. 23-27. The Expo brings together over 2,500 attendees and more than 160 exhibiting companies to showcase projects, equipment, services, and state of the art technology.

"There has been sustained growth in the geothermal industry despite the recession, and we foresee even more aggressive expansion coming in the next several years," said GEA Executive Director Karl Gawell. "Geothermal projects that are currently in advanced stages of development in the states of Nevada, California, and Utah alone have the potential to create more than 2,500 permanent full-time positions and nearly 10,000 annual construction jobs," GEA estimates in a new report, *Green Jobs Through Geothermal Energy*, to be released at the Expo. GEA will also release *US Geothermal Education and Training Guide*, a survey of the colleges and universities across America with undergraduate, graduate, and certification programs related to geothermal.

The "virtual job fair" will feature leading geothermal industry employers including Ormat, POWER Engineers, Kelly Pipe, RMT Inc., DHI Services, Cryostar, The Avogadro Group, and the Department of Navy. Registered attendees can pick up a Job Fair map at the GEA Expo Registration at the Sacramento Convention Center. The Job Fair map will point them to Expo Hall exhibitors that are hiring. At participating exhibitors' booth, attendees can obtain more information about the company and available positions. Interviews will not be conducted on site. To register, please visit www.geothermalenergy2010.com/visitors.asp. Complimentary admission is available to college students with valid credentials.

For media credentials, please contact Garret Drexler at 646-695-7042 or garret@rosengrouppr.com. More information, including the exhibitor list and schedule, is at: www.geothermalenergy2010.com



Company News

ElectraTherm: Grant Awarded for Low Temperature Geothermal Technology

Press Release, Reno, Nev. — September 20 — ElectraTherm, Inc. announced today it was awarded approximately \$982,000 from the U.S. Department of Energy (DOE) to research, develop and demonstrate its technology using co-produced fluids. The federal grant will help accelerate the development of ElectraTherm's technology through a geothermal demonstration site at Florida Canyon Mine in Imlay, Nevada. ElectraTherm is providing recipient cost share in the amount of approximately \$500,000 on this project.

ElectraTherm's heat-to-power technology converts many sources of low temperature liquid heat (reciprocating engine waste heat, geothermal including oil and gas co-produced fluids, biomass, process heat, solar thermal, etc.) into power. The company will use the DOE funding to demonstrate the financial and technical viability of small scale distributed generation from heat co-produced in geothermal brine.

"Low temperature geothermal brine is currently considered a nuisance in many mining, and oil and gas operations today. ElectraTherm's Green Machine can tap into those existing resources to produce fuel-free, emission-free power," said John Fox, CEO, ElectraTherm. "With these additional resources from the DOE, ElectraTherm will engineer a product specific for the challenges of geothermal brine to produce power onsite from their 230°F geothermal resource."

See <http://www.electratherm.com/newsroom.html>

Raser Technologies: Preliminary Financing Obtained for New Mexico Geothermal Project

Press Release, October 5, PROVO, Utah -- Raser Technologies, Inc. (NYSE:RZ), an energy technology company, announced today that it and its wholly owned subsidiary Lightning Dock Geothermal HI-01, LLC (LDG) have signed an agreement with Evergreen-FE Lightning Dock, LLC ("Evergreen-FE"), a collaboration between the FE Clean Energy Group, a group of funds focused on investments in renewable energy and energy efficiency projects, and Evergreen Clean Energy, LLC to fund the resource development of the Company's Lightning Dock Geothermal Project in Animas County, New Mexico.

"We are excited to move forward with Raser and believe the Lightning Dock project will be a successful project providing clean, renewable energy to residents in Phoenix, Arizona."

The agreement contemplates that Evergreen-FE will invest \$15.3 million in LDG to finance the development of the Lightning Dock Geothermal Project in exchange for a 51% interest in LDG and that Raser will develop and manage the project, subject to the negotiation and execution of definitive agreements satisfactory to the parties. To facilitate the continuing resource development of the Lightning Dock Geothermal Project while definitive documents are being completed, the agreement provides for an initial investment in the form of loans of up to approximately \$2 million to LDG to fund the continued resource development of the project. The loans will be secured by a first priority lien on certain LDG equipment. Upon, and subject to, execution of definitive documents governing Evergreen-FE's equity investment in LDG, the loan balance will be credited towards the purchase price payable by Evergreen-FE for its interest in LDG.

For more see <http://www.rasertech.com/news>.

Science Applications International Corp: \$14M Contract Awarded to Build Nevada Plant

Press Release, October 5, McLEAN, Va. -- Science Applications International Corporation (SAIC) (NYSE: SAI) announced today it was awarded a prime contract by Terra Gen Sierra Holdings, LLC, an affiliate of Terra-Gen Power, a renewable energy company focused on geothermal, wind and solar generation, to engineer, procure and construct a binary geothermal power plant in Churchill County, NV adjacent to the existing Dixie Valley geothermal facility. The contract is valued at more than \$14 million, and the project is scheduled for completion by January of 2012. Work will be performed by SAIC's wholly owned, design-build subsidiary, The Benham Companies LLC.

Geothermal energy is a renewable source of electricity. It is a clean, environmentally friendly, sustainable method of electrical power generation. Under the contract, SAIC will provide design-build services to deliver a new 6.6 megawatt binary plant manufactured by Turbine Air Systems, a Houston, Texas, based company.

"Geothermal power plants are cost effective, reliable, sustainable, and environmentally friendly. The adoption of this technology is key to achieving our country's sustainability goals," said J.T. Grumski, SAIC senior vice president and business unit general manager. "We look forward to delivering a quality facility to Terra Gen, and further demonstrating SAIC's expertise in the geothermal renewable energy market."

See <http://investors.saic.com/phoenix.zhtml?c=193857&p=irol-newsArticle&id=1478991>.

XDT: Seismic Analysts Enter Geothermal Industry

Ten Dimensional Technologies (XDT) has announced their entrance into the geothermal exploratory field. XDT has recorded micro earthquakes and processed seismic signals at geothermal locations in California and Iceland. Their expertise includes seismic research such as techniques for analyzing volcanic conduit systems that can identify near-surface hot spots and glean information on cracks and fissures essential to locating drill sites.

XDT field researcher Alex Miller told press, "We intend to add our unique expertise in earthquake seismology to increase the chances of successful drilling in the geothermal industry."

See

http://7thspace.com/headlines/359081/xdt_now_providing_proven_seismic_analytical_services_to_increase_success_rates_of_geothermal_drilling_projects.html



Renewable Energy and Climate Change

Federal Trade Commission Proposes Revised "Green Guides"

From Sustainable Energy Coalition/SUN DAY Campaign: The Federal Trade Commission has proposed several revisions to its "Green Guides" that help companies avoid making misleading environmental claims. Some of the biggest proposed changes include new guidance on marketers' use of product certifications and seals of approval, as well as claims for renewable energy, renewable materials, and carbon offsets. The changes to the "Green Guides" include new guidance on marketers' use of product certifications and seals of approval, "renewable energy" claims, "renewable materials" claims, and "carbon offset" claims. The FTC is seeking public comments on the proposed changes until December 10, 2010, after which it will decide which changes to make final.

See <http://www.ftc.gov/opa/2010/10/greenguide.shtm>,

<http://www.environmentalleader.com/2010/10/06/ftc-green-guides-proposed-revisions-unveiled/>



State News

California: Geothermal Energy Association Opposes Proposition 23

GEA Press Release: WASHINGTON, DC October 5 –The Geothermal Energy Association's (GEA) Board of Directors has voted unanimously to oppose California Proposition 23. GEA Executive Director Karl Gawell made the following statement:

"GEA opposes Proposition 23 because it would jeopardize the state's leadership in renewable energy and undermine growth of the industries that are the foundation of the future global clean energy economy. The clean technology sector, including the geothermal industry, has been growing and creating new jobs despite the recession. AB 32 will ensure that renewable energy investment and jobs continue to be created in California and position the state to continue being a world leader in these technologies. Proposition 23 would undermine California's most important initiatives to promote economic growth and foster technology leadership."

California Geothermal Facts:

- California is the largest geothermal power producer in the United States.
- Geothermal energy is the largest renewable source of energy in the state of California, providing 5% of the state's electric power.
- California has more geothermal power on-line than any of the 23 other countries with geothermal power.
- California currently has approximately 2565.5 MW of installed geothermal capacity, enough to power 2.5 million homes.
- California currently has 35 geothermal projects in development which could amount to up to 1997.7 MW, enough to power an additional 2 million homes.
- The US Department of Energy awarded \$47.4 million to 22 geothermal projects in California that will help develop new technology to produce even more geothermal power.
- This year, the geothermal industry celebrated the 50th anniversary of producing power at The Geysers outside Sacramento.

From October 24-27, Sacramento will host the 2010 Geothermal Energy Expo. This annual event is the world's largest gathering of geothermal industry leaders. For more information on the expo, please visit:

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

California: Imperial County Approves Geothermal Testing, Tea Party Supports Prop. 23

Imperial County's Planning Commission has approved five exploratory wells near Brawley. Ram Power will conduct drilling, sampling and monitoring, with each well taking about 60 days to drill. Successful testing of the site may lead to a new geothermal development.

And throughout the state, Tea Party activists in California are supporting Proposition 23, to suspend California's Global Warming Solutions Act of 2006 until unemployment falls below 5.5% (currently above 12%). "We're open to working with anyone who supports our key values of limited government, fiscal responsibility and free markets," said chairman of the Central Valley Tea Party Brad Roltgen. Polls have shown Prop 23 in a dead heat. The Yes on 23 campaign is funded by Valero Energy Corp. and Tesoro Corp., both Texas oil refiners and has also received \$1 million from Flint Hill Resources, a subsidiary of Koch Industries.

See <http://www.eenews.net/Greenwire/2010/10/04/7/>,

http://www.mercurynews.com/breaking-news/ci_16221401

http://www.ivpressonline.com/articles/2010/09/23/local_news/news09.txt

Colorado: Pagosa Aquifer Offers Major Geothermal Resource, Says NREL

The National Renewable Energy Laboratory recently met with Pagosa Springs officials in a two-day visit, indicating almost unlimited potential at the Great Pagosa Aquifer for geothermal energy utilization. Elaine Wood, former Pagosa Springs resident and a consultant on clean energy projects with NREL, Gerald Hutterer, president of the Geothermal Management Company, Inc. and consultant for NREL, and Dr. John Lund, who recently joined NREL as the principal engineer for its geothermal program, looked into the resource on Wood's invitation.

The team said they would look into USDA funding, saying the federal government "would like to see some more geothermal projects because all they're seeing are wind and solar." Graduate students could be employed at minimal to no cost for initiating research, they said. Heating the high school would make a good initial heating project that could be expanded to the entire Pagosa Springs downtown area.

See <http://www.pagosasun.com/archives/2010/09%20September/093010/pg1geothermal.html>



International News

Australia: Hot Rock Applies for State Grants for Koroit Geothermal Project

Hot Rock has applied for grants from the Victorian Government totaling \$9 million for the Koroit Geothermal Project. The project was awarded \$7 million from the Australian government in August. Drilling is expected to begin in early 2011 and development of a pilot plant in 2012.

The company has applied for \$4 million under the Energy Technology Innovation Strategy and \$5 million under the Sustainable Energy Pilot Demonstration Program. "we envisage developing a source for renewable, base-load energy within three years," Mark Elliott, executive chairman told press.

See <http://www.proactiveinvestors.com.au/companies/news/10484/hot-rock-bids-for-a9m-state-grants-to-progress-koroit-geothermal-project-10484.html>

Chile: Public Auction Process Initiated for Geothermal Areas

Chile's government has initiated a public auction process and plans to grant up to 21 new areas in the Tarapacá and Los Ríos regions for geothermal operation activity. The public auction could generate up to \$100m through investments in exploration and development. The government hopes to auction another 50 concessions by 2011 and 120 in 2012-13.

See

http://www.pennenergy.com/index/power/display/9181976751/articles/powergenworldwide/renewables/geothermal/2010/09/chile-to_develop_over.html.

China: JV Signs Inner Mongolia Geothermal Contract

China Sinopec Group's unit Sinopec Star Petroleum and Enex China have contracted to develop geothermal resources in Inner Mongolia. The team along with local authorities will initiate and compile a geothermal survey in A'Er Shan region, with development emphasis on indoor heating systems, greenhouse agriculture and geothermal electricity generation. The joint venture also has an agreement on a geothermal district development project in Hebei province and operates a geothermal district heating system in Shaanxi province.

See <http://www.platts.com/RSSFeedDetailedNews/RSSFeed/HeadlineNews/ElectricPower/8032104/>

Italy: Volcano Drill Project to Begin at Campi Flegrei

A drilling project at the Italian caldera Campi Flegrei seeks to locate the magma chamber and gather information on this type of volcano. The potential danger of such volcanoes and the fact that little is known about them are both part of the reasoning in conducting the research as well as reasons it is becoming controversial. Project plans at Bagnoli, near Naples, are to drill down to 500 m starting this month. The main 4-km hole is to be drilled next spring. Fibre-optic sensors will collect information on seismic activity and ground deformation at temperatures as high as 600°C. The team expects to hit supercritical fluids but do not expect to go near any magma. The main chamber is estimated to be 6,000 to 7,000 km down.

Calderas are formed by a type of eruption that completely empties the magma chamber. Seismic activity can then continue and potentially lead, eventually, to another eruption. The last time a caldera of comparable size erupted was in 1816, in Indonesia, killing over 70,000 people and resulting in a 'volcanic winter' that caused crop failure and loss of livestock in areas across the Northern Hemisphere.

See <http://www.theengineer.co.uk/active-volcano-drill-project-to-reveal-caldera-secrets/1005261.article>

UK: Deep Geothermal Project to Begin Drilling in 2011

Eversheds law firm has advised Geothermal Engineering Ltd on securing land for the deep geothermal project to be built at brownfield site in Cornwall. Drilling will begin in early 2011. "With the development of our plant we want to make deep geothermal energy a significant contributor to the UK's energy portfolio," said Ryan Law, Managing Director of Geothermal Engineering.

See <http://www.renewableenergyfocus.com/view/12886/eversheds-advises-on-uk-deep-geothermal-project/>



Geothermal Heat Pumps and Direct Use

Farmer to Break Ground on Utah Geothermal Greenhouse

On Saturday, October 9 Utah farmer Dale Allred will begin work on his one-acre geothermally heating greenhouse in Midway. Allred already supplies weekly produce to 500 families and individuals and to 10 restaurants from an 8-acre farm in Orem where he uses greenhouses to extend the growing season. The new geothermal greenhouse will reduce heating costs and allow Allred to produce year round with a zero carbon footprint.

See <http://www.sltrib.com/sltrib/blogs/bitebybite/50424284-60/allred-farm-geothermal-utah.html.csp>



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



Notices

New This Week

The Geothermal Community Says Goodbye to Joe Aidlin, Paul Kruger, and Tsvi Meidav

Joe Aidlin



Joe Aidlin, who was instrumental to the inception of geothermal energy in the United States, passed away this week. Along with his partners he worked to develop The Geysers field, the largest geothermal field today, beginning in the late 1940s and was a founder of the Geothermal Resources Council in the early 1970s.

Joe came from Waukegan, Illinois and moved to California when he was 10. He attended UCLA (then called the Southern Branch of the University of California) and majored in economics, and graduated from the University of California Boalt School of Law in 1933. He celebrated his 100th birthday on April 28 of this year.

In an extensive 1998 interview detailing his geothermal story, Joe called himself a "frustrated farmer." He says, "My affinity to land is probably what led to my understanding the complexities of land ownership and use, and probably

to my expertise in this field and in minerals." The interview and image are available on the GRC Web site:

<http://www.geothermal.org/JoeBday.pdf>

Paul Kruger

Paul Kruger, a founder of the Stanford Geothermal Program, passed away on September 17. He instigated the annual Stanford Geothermal Workshop, which continues to this day, in 1975 and wrote two books on geothermal energy: "Geothermal Energy; Resources, Production, Stimulation" in 1973, and "Alternative Energy Resources: The Quest for Sustainable Energy" in 2006. Paul was a Professor of Civil and Environmental Engineering at Stanford University for many years. Image from: <http://pangea.stanford.edu/ERE/research/geoth/>



Tsvi Meidav



Tsvi Meidav, an active member of the geothermal community and a former Board Member of the Geothermal Energy Association passed away on September 29. Tsvi began Trans-Pacific Geothermal Corporation, located in Oakland, California in the 1980s.

Tsvi was born in Poland in 1930. He lived in Palestine where he studied agriculture, then served in the Haganah from 1948 to 1949. He came to the U.S. in 1950 and completed his Ph.D. in Geophysics at the University of California Berkeley. He was a professor of Geophysics at UCB for many years.

Trans-Pacific Geothermal was involved in the 2-MW Wendel-Amedee development in Northern California and on projects in the Imperial Valley. Trans-Pacific was a member of the GEA for many years with Tsvi serving on the association's Board of Directors.

DOE Draft Geothermal Market Report 2009 Available for Comment

US DOE has prepared a draft report on the US geothermal market in 2009. A PDF of the report and a submission form for comments is available at: <http://www1.eere.energy.gov/geothermal/plans/comments.cfm?doc=market>.

The draft *Geothermal Market Report 2009, Building Blocks for a \$50 Billion Industry* addresses the following issues:

- Chapter 1 addresses the industry's current state, including development activities, infrastructure and its financial health.
- Chapter 2 discusses advanced technologies, including Enhanced Geothermal Systems (EGS), which has been a central theme in U.S. government programs but has seen little commercial activity. These technologies will be important for the industry to reach its potential. The chapter also discusses investment trends in new technologies to support industry advancement.
- Chapter 3 covers international development activities and cross-border commercial opportunities, including import/export drivers for U.S. companies.
- Chapter 4 provides background on U.S. government programs that support the industry and are critical to its growth and success.
- Chapter 5 highlights key companies in the geothermal industry, including players across the value chain and risk spectrum.

Current Notices

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.



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, Europe

Contact: droberts@penderfinancial.com



Requests for Proposals

Closing This Week

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

New This Week

Measuring Pore Fluid Pressure in Extremely Low Permeable Material Layers (October 29)

NineSigma Request, RFP# 66354, "Measuring Pore Fluid Pressure in Extremely Low Permeable Material Layers." — A Fortune 500 Company, invites proposals for the development of a method or tool to rapidly determine the fluid pressure in extremely low permeable material layers.

Final submission date: October 29, 2010.

Request for Proposal (RFP) document:

https://www.myninesigma.com/sites/public/layouts/RFPs/NineSigma_RFP_66354.pdf.

To submit a proposal:

https://www.myninesigma.com/sites/public/layouts/ProposalTemplates/Response_Template_66354.doc

Contact: Include reference RFP# 66354 in the subject line to Dr. Ir. Jos Cenens, Engagement Manager Europe, PhD@ninesigma.com.

Proposals

Partner Sought for Hot Oil and Gas Wells, Mississippi

Rich McAdoo (rlmcdoo@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 jbell@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)

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>.

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

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&opId=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

Happening This Week

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.

GEA Events

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 Web site 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 Critical Issues Workshop and Annual Members Meeting, Sacramento, CA (October 23)

October 23 GEA Policy Issues Workshop and Annual Members Meeting

What Will State and Federal Climate Change Laws and Regulations Mean for Geothermal Energy?

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

Reserve your space: <http://www.gifttool.com/registrar/ShowEventDetails?ID=1872&EID=7810>.

The meeting is open free of charge to GEA Member 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.

DRAFT AGENDA:

Noon: Welcome and Introductions, Karl Gawell, GEA

12:15: Keynote Address: Eugene Linden, Author

"What the financial crisis tells us about how the world will deal with climate change."

Brief Bio: Eugene Linden is the author of seven books and for many years wrote about global environmental issues for Time. He has contributed to The New York Times, Foreign Affairs, National Geographic, The Wall Street Journal, The Atlantic, Fortune, and Slate. Linden has won numerous journalistic awards, including the American Geophysical Union's Walter Sullivan Award. He was named by Yale University in 2001 as a Poynter Fellow in honor of his work in environmental journalism

Questions and Discussion

1:15 California Policies Implementing AB 32: How will they affect renewable markets and the geothermal industry?

Moderator, John McCaull, GEA

Panelists:

- Andrew Altevogt, , Climate Change Program Manager, Cal/EPA (invited)
- James Goldstene, Executive Officer, California Air Resources Board (invited)
- Kelly Smith, Chief Consultant, California Senate Energy, Utilities and Communications Committee (Invited)
- Danielle Osborn Mills, Center for Energy Efficiency Renewable Technologies (confirmed)
- Questions and Discussion

2:00 Break

2:15 Federal Policies/Laws Addressing Climate Change: How are and will federal laws and regulations change to address climate legislation? How will they affect renewable markets and the geothermal industry?

Moderator, Karl Gawell, GEA

Panelists:

- Kermit Witherbee, BLM (confirmed)
- U.S. DOE Representative (confirmed)
- U.S. EPA, Region 9 (invited)
- Ryan Mullholland, Department of Commerce (confirmed)

Questions/Discussion

3:15 Independent Viewpoints -- Climate Laws and Regulations and how they may help or hurt the Geothermal Industry

Moderator, Karl Gawell, GEA

Panelists

- Kate Young, NREL (confirmed)
- John McKinsey, Stoel Rives (confirmed)
- John Pierce, Wilson, Sonsini, Goodrich (confirmed)
- Derek Walker, California Climate Initiative, Environmental Defense Fund (invited)

Questions/Discussion

4:00 Break

4:15 GEA Report on 2010 and Outlook for 2011

Karl Gawell and GEA Staff review GEA activities in 2010 and present outlook for 2011

Questions and Discussion

5:00 GEA Board Elections

5:30 Adjourn

5:30–6:00 New GEA Board Organizing Meeting

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., Adams Valves, Alstom Power, Ashland, Inc., Association of American State Geologists, Atlas Copco Mafi-Trench Company LLC, Ausenco PSI, Baker Hughes, Bakersfield Pipe and Supply, Baroid Industrial Drilling Products, Beniton Integrated Project Delivery Team, BM Engineering & Construction Comp., Boart Longyear Drilling Services, Boart

Longyear/Energy Products, Bolttech Mannings, Brush Turbogenerators, BS&B Safety Systems, LLC, Bureau of Land Management, CA Division of Oil, Gas, & Geothermal Resources, California Energy Commission Public Interest Energy Research, Cameron, Campbell Scientific, Chase'Em Back Tools, 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, GeothermEx, A Schlumberger Company, GeoThermHydro, Geothermal Resource Group, Gradient Geophysics, Inc., Great Basin Center for Geothermal Energy, GTherm, Inc, Halliburton, Holland & Hart LLP, Holtec International, Horizon Well Logging, Imperial Valley/IID, 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, Leapfrog Geothermal, Linear Power, Machine Support Technologies, Inc., MadgeTech, Inc., Magma Energy Corporation, Major Drilling America Inc., Matrix Chemical Solutions, McHale Performance, 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., PCL Industrial Services, 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, RenewableEnergyWorld.com, Rigger Engineering, RMT, Inc., Rockwell Automation, Rocky Mountain Oilfield Testing Center, Rotork Controls, Inc., Ruen Drilling, Inc., Sacramento Municipal Utility District (SMUD), Severe Service Specialists, Siemens Industry, Inc., Sierra Environmental Monitoring, SnapOn Industrial, SNC-Lavalin Thermal Power, SpecTIR, SPX Corporation, Stoel Rives LLP, Stork H&E Turbo Blading Inc., Sulzer Pumps, Sunrise Engineering, Inc., TAS, TBA Power, Inc., Team Australia Geothermal, Tenaris, The Avogadro Group, The Shaw Group, ThermaSource, LLC, Thermochem, Tiger Energy Services, Titan Metal Fabricators, TIX Corporation, TNG Energy Services, Inc., Toshiba International Corp, TRE Canada Inc., Tricor Metals, TurboCare, Tyco Flow Control, Universal Plant Services, University of Colorado Denver, 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

To inquire about additional sponsorship opportunities, contact Kathy Kent at kathy@geo-energy.org

Water Sponsor - \$3,500 (Exclusive) - **SOLD: TNG Energy Services**

Exhibition Aisle Signs – 1/ Aisle Section - \$1,000 (Limit 8) - **SOLD: Mitsubishi Power Systems**

Geo-Cyber Area Sponsorship - \$5,000 (Exclusive) - **SOLD: Geothermal Resource Group**

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

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

GRC Annual Meeting and GEA Geothermal Energy Expo® Mutual Sponsorships 2010

To inquire about additional sponsorship opportunities, contact Kathy Kent at kathy@geo-energy.org

Platinum Level - \$30,000 (Limited to maximum of 5 sponsors) - **SOLD: Halliburton**

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

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

Breaks

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

Morning Coffee, Tuesday - \$2,500 (Exclusive) - **SOLD: Enel North America/Enel Green Power**

Afternoon Coffee and Sweets, Tuesday - \$5,000 - **SOLD: Gradient Resources**

Morning Coffee, Wednesday - \$2,500 - **SOLD: POWER Engineers**

Variety Items

Neck Wallets - \$10,000 (Exclusive) - **SOLD: Calpine Corporation**

Annual Meeting and Expo Delegate Bags - \$15,000 (Exclusive) - **SOLD: Ormat Technologies**

GEA would like to thank our media partners for the Geothermal Energy Expo 2010: NA Clean Energy, RenewableEnergyWorld.com, Thinkgeoenergy.com, The Energy Report and Low Carbon Economy, 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>

Low Carbon Economy: The Low Carbon Economy is a central resource for the low carbon economy, connecting people and businesses with low carbon products and services, information, initiatives, and each other. We created The Low Carbon Economy in 2006 to capitalise on everything we have learned over the years at Fuel Cell Markets, and to apply our unique knowledge, resources and experience towards assisting the development of a low carbon economy as a whole. Our unique drive and resources have enabled us to create an exceptional company uniquely positioned to deliver a truly useful online resource which has the potential to help millions of people and businesses across the globe.

www.LowCarbonEconomy.com

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

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/>

GEOTHERMAL ENERGY WEEKLY

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

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