Since 1994, POWER has contributed to over 1,000 MW of hot, new geothermal capacity in flash, dry and binary cycle in locations around the world. That’s serious experience that translates to more thorough geothermal studies and more competent owner’s and banker’s engineering support.

Learn more at: POWERENG.COM/GEOTHERMAL
Geothermal Resources Council
and GEA Geothermal Energy Expo

September 28 - October 1, 2014

Geothermal: A Global Solution

GRC 2014 Annual Meeting Features

WORKSHOPS
Two pre-meeting GRC Workshops (each 2 days):
1) Introduction to Hydrothermal Systems and Geothermal Exploration
2) Geothermal Leasing, Unitization and Water Use Legal Issues

FIELD TRIPS
Three pre-meeting GRC Field Trips:
One day - A Geological trip through the Willamette Valley wine country
One day - The famous Mount Saint Helens volcano
Two day - The volcanic Cascade Mountains including a stop at the Newberry Crater Enhanced Geothermal System (EGS) Demonstration Project.

Three day post-meeting GRC Field Trip:
Klamath Falls to visit the Oregon Institute of Technology's energy self-sufficient campus run entirely by geothermal and solar energy, and other geothermal energy power plants and direct use facilities in the area.

ANNUAL BANQUET
The GRC Annual Banquet will be the geothermal social event of the year. Get on board the Portland Spirit, a 150 foot yacht with three public decks featuring delicious Northwest cuisine, full service bars with a vast wine selection, grand pianos and a singing wait staff, a ship-wide sound system, and a marble dance floor.

ANNUAL CHARITY GOLF TOURNAMENT
Sign-up early for this popular networking event at the Heron Lakes Golf Club.

TECHNICAL SESSIONS
Three days of technical sessions bringing the latest geothermal research from around the world. Dozens of poster presentations on display throughout the event.

INTERNATIONAL AND STUDENT NETWORKING LUNCHEONS
Special informational lunches with presentations and discussions led by globally known experts in the geothermal community. Great networking opportunities!

GEA GEOTHERMAL ENERGY EXPO
More than 125 booths were on show at last year's Expo, showcasing projects, equipment, services and state of the art technology to the geothermal community. Entry to the trade show is free with GRC Annual Meeting registration. Exhibitors can register for a booth now. As of May 5, 65 exhibitors have signed up – don’t be left out! More information at www.geothermalenergy2014.org

Note: All events are a work in progress and may change at any time.

Get the latest news on the geothermal event of the year at www.geothermal.org

Deadlines

June 27 - GRC Awards Nominations
August 31 - Amateur Photo Contest Entries
September 3 - Hotel Room Discount Ends

Save the Date

GRC Annual Meeting and GEA Expo

September 28 - October 1, 2014
Oregon Convention Center
Portland, Oregon · USA
56 Countries

7,000 MW Developed

$12 Billion Financed

GeothermEx
A Schlumberger Company

GENERATING GEOTHERMAL SUCCESS
FOR 40 YEARS

www.geothermex.com
## Yellow Pages Contents

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizon Well Logging, Inc.</td>
<td>Y9</td>
</tr>
<tr>
<td>Luminate, LLC</td>
<td>Y9</td>
</tr>
<tr>
<td>Nevada Water Solutions LLC</td>
<td>Y8</td>
</tr>
<tr>
<td>Ormat Technologies, Inc.</td>
<td>Y9</td>
</tr>
<tr>
<td>Panorama Environmental, Inc.</td>
<td>Y9, Y10</td>
</tr>
<tr>
<td>POWER Engineers, Inc.</td>
<td>Y10</td>
</tr>
<tr>
<td>Prospect Geotech LLC</td>
<td>Y4, Y10</td>
</tr>
<tr>
<td>Ruppel Marketing</td>
<td>Y10</td>
</tr>
<tr>
<td>Scientific Drilling</td>
<td>Y10</td>
</tr>
<tr>
<td>Sinclair Well Products</td>
<td>Y4, Y11</td>
</tr>
<tr>
<td>Thermochem, Inc.</td>
<td>Y11-Y12</td>
</tr>
<tr>
<td>Two-Phase Engineering &amp; Research, Inc.</td>
<td>Y12</td>
</tr>
<tr>
<td>Weatherford International, Ltd.</td>
<td>Y12</td>
</tr>
<tr>
<td>Western Cultural Resource Management Inc.</td>
<td>Y12</td>
</tr>
</tbody>
</table>

Companies Listed by Services:  
1. Capuano Engineering Company: Y5  
2. Consent Energy LLC: Y5  
3. CTi Controltech: Y5  
4. Drill Cool Systems, Inc.: Y5, Y9  
5. EGS Consulting, Inc.: Y5  
7. Evans Hydro, Inc.: Y2  
8. Geologist Extraordinaire: Y6  
11. Geothermal Resources Council: Y7  
12. Geothermal Science, Inc.: Y7  
13. Geothermal Solutions, Inc.: Y7  
14. GeothermEx Inc.: Y8  

*2014 Registry of Geothermal Services & Equipment*
Comprehensive Pump Support for the Geothermal Power Industry

Engineered Pump Rebuilding
Since 1969, Hydro has built its worldwide pump service organization by bringing a high level of engineering expertise and quality service to the pump aftermarket. We work with our customers to evaluate and understand the root causes of pump degradation or failure and to provide unbiased engineering analysis, quality workmanship and responsive field service for improved plant operation.

Turnkey, Field Service and 24/7 Emergency Response
Hydro’s Field Service team has extensive knowledge of pumps from most major manufacturers and provides turnkey service, installation / start-up supervision, field machining, vibration analysis, laser alignment, pump system troubleshooting and emergency field response 24 hours a day, 7 days a week.

Pump Parts
When you require a part and are facing a long lead time, Hydro can meet your needs in a reduced time frame through our reverse engineering, patternless casting, and integrated manufacturing processes. Hydro’s engineers review and evaluate all parts to offer important upgrades and apply new technologies that will reduce wear and improve reliability.

Pump Testing - Managing Risk
Ensure your pump will perform as required. Hydro’s 5000HP Performance Test Lab is compliant to API610 and Hydraulic Institute standards and can test horizontal, vertical, and submersible pumps.

Training
Hydro teaches practical solutions and troubleshooting techniques for common pump problems and offers specialized hands-on training programs. View upcoming courses online at wwwydroinc.com.

For more information about Hydro’s comprehensive pump services for Geothermal plants, please contact Evans Hydro 310-608-5801.

Evans Hydro, A Hydro Company
18128 S. Santa Fe Ave.
Rancho Dominguez, CA 90221
evanshydro.com | 310-608-5801
info@evans-hydro.com
<table>
<thead>
<tr>
<th>Service Type</th>
<th>Companies</th>
</tr>
</thead>
</table>
| **Chemical Services**                | • EGS Consulting Inc.  
• Geothermal Solutions, Inc.  
• GeothermEx, Inc. (a Schlumberger Company)  
• Ruppel Marketing Inc.  
• Thermochem, Inc. |
| **Consulting Services**              | • Capuano Engineering Company  
• Consent Energy LLC  
• EGS Consulting Inc.  
• Geothermal Science, Inc.  
• Geothermal Solutions, Inc.  
• GeothermEx, Inc. (a Schlumberger Company)  
• Luminate, LLC  
• Power Engineers, Inc.  
• Thermochem, Inc. |
| **Corrosion Control**                | • Geothermal Solutions, Inc.  
• Thermochem, Inc. |
| **Cultural Resource Management**     | • Western Cultural Resource Management, Inc. (WCRM)                       |
| **Direct Use**                       | • EGS Consulting Inc.  
• Geothermal Development Associates  
• GeothermEx, Inc. (a Schlumberger Company) |
| **Directional Drilling**             | • Scientific Drilling                                                     |
| **Drilling Completion**              | • Capuano Engineering Company  
• GeothermEx, Inc. (a Schlumberger Company)  
• Ruppel Marketing Inc. |
| **Drilling Engineering**             | • Geothermal Resource Group                                              |
| **Drilling Fluids**                  | • Drill Cool Systems, Inc.  
• Sinclair Well Products |
| **Drilling Services: Rental & Fishing** | • Weatherford International, Ltd.                                       |
| **Drilling Supervision**             | • Geothermal Resource Group                                              |
| **Economic Evaluation**              | • EGS Consulting Inc.  
• Environmental Management Associates Inc.  
• Geothermal Development Associates  
• GeothermEx, Inc. (a Schlumberger Company) |
| **Education**                        | • EGS Consulting Inc.  
• Geothermal Resources Council  
• GeothermEx, Inc. (a Schlumberger Company) |
| **Environmental Services**           | • EGS Consulting Inc.  
• Environmental Management Associates Inc.  
• Geothermal Development Associates  
• Panorama Environmental, Inc.  
• Thermochem, Inc. |
| **Explosion**                        | • EGS Consulting Inc.  
• Geologist Extraordinaire  
• Geothermal Development Associates  
• GeothermEx, Inc. (a Schlumberger Company)  
• Sinclair Well Products  
• Thermochem, Inc. |
| **Exploration Geoscience**           | • Geothermal Resource Group                                              |
| **Geochemical Surveys**              | • EGS Consulting Inc.  
• Thermochem, Inc. |
| **Geological Services**              | • EGS Consulting Inc.  
• Horizon Well Logging, Inc.  
• Prospect Geotech LLC |
| **Geothermal Separators**            | • Drill Cool Systems, Inc.  
• Thermochem, Inc.  
• Two-Phase Engineering & Research, Inc. |
| **H₂S Abatement**                    | • Thermochem, Inc. |
| **Lease / Project Evaluation**       | • EGS Consulting Inc.  
• Geothermal Development Associates  
• GeothermEx, Inc. (a Schlumberger Company) |
| **Miscellaneous**                    | • CTi Controltech  
• Ruppel Marketing Inc. |
| **Mud Logging**                      | • Horizon Well Logging, Inc.  
• Prospect Geotech LLC |
| **Operations and Maintenance**       | • Thermochem, Inc. |
| **Other**                            | • Scientific Drilling |
| **Power Generation**                 | • Geothermal Development Associates  
• Ormat Technologies, Inc.  
• Power Engineers, Inc. |
| **Project Development**              | • Capuano Engineering Company  
• Consent Energy LLC  
• Geothermal Development Associates  
• GeothermEx, Inc. (a Schlumberger Company)  
• Ormat Technologies, Inc. |
| **Project Management**               | • Geothermal Resource Group                                              |
| **Reservoir Assessment**             | • EGS Consulting Inc.  
• GeothermEx, Inc. (a Schlumberger Company)  
• Ruppel Marketing Inc.  
• Thermochem, Inc. |
| **Scale Inhibitors**                 | • Geothermal Resource Group                                              |
| **Resource Assessment**              | • Geothermal Solutions, Inc.                                             |
| **Training**                         | • Geothermal Resource Group                                              |
| **Well Testing**                     | • Capuano Engineering Company  
• Geothermal Solutions, Inc.  
• GeothermEx, Inc. (a Schlumberger Company)  
• Scientific Drilling  
• Thermochem, Inc. |
Prospect Geotech uses advanced technology and experienced staff to provide high quality services at a cost-effective price.

* Wellsite Geology
* Data Acquisition
* Mudlogging
* Evaluations: oil, gas, geothermal, minerals
* H₂S Certified Trainers

Bruce Vesterby: 505-228-3132
Jim Hill: 505-228-6690
www.prospectgeotech.com

Sinclair Well Products
A Full-Service Drilling and Coring Fluids Company for the Geothermal Industry

* Extensive US and International Experience
* Geothermal Drilling and Coring Fluids
  - Temperature Stable, Field-Proven Additives
  - Non-Damaging Geothermal Mud Systems
  - Hi-Temp Foamers & Corrosion Inhibitors
  - Innovative LCM Products & Technologies
  - Exploration 'Slim-Hole' Coring Fluids Additives
* Highly Trained Geothermal Mud Engineers
* Numerous Successful International Projects/Tenders
* Drilling Waste Management Services
* Coring Consumables and Equipment Sourcing
* Portable Mixing and Storage Tanks
* Solids Removal Equipment

Primary Contact: John D. Tuttle
661-212-1223
jtuttle@sinclairwp.com

Sinclair Well Products
10602 Midway Avenue
Camarillo, Calif. 90703
800-782-3222
www.sinclairwellproducts.com
2014 Listing of Companies

Capuano Engineering Company
(see display ad on page 43)

Louis Capuano Jr. ...................... (707) 595-8740
2455 Bennett Valley Road, Suite A112
Santa Rosa, CA 95404
Fax: (707) 544-4127
Email: lcapuano@capuanoengineering.com
Website: www.capuanoengineering.com

Consulting Services:
CEC has a history of expertise and experience in designing drilling programs that are safe, cost effective, and achieve the objectives of their clients.

Drilling Completion:
Capuano Engineering Drilling Programs cover everything from well testing, well design, and reconnaissance, to equipment procurement, site supervision and all phases of work and paper work necessary to sign your project off as safe and complete.

Project Development:
CEC excels at providing project management, drilling plan development, drilling program design, materials, services, and technologies as well as establishing cost control analysis.

Well Testing:
Equipment design, procurement and installation, field operation and data collection, test results evaluation and well bore flow simulation.

Consent Energy LLC

Magnus Gehringer CEO ............(202) 569-4109
4444 Connecticut Avenue NW, Suite 707
Washington DC, 20008
Email: magnus@consentenergy.com
Website: www.consentenergy.com

Consulting Services & Project Development:
Consultancy and project development for Geothermal, hydro, oil & gas. Expertise in geophysics, planning, engineering, finance and policy/legal.

Chemical Services • Consulting Services • Direct Use • Economic Evaluation • Education • Environmental Services • Exploration • Geochemical Surveys • Geological Services • Lease/Project Evaluation • Reservoir Assessment

CTi Controltech
(see display ad on this page)

George Constas ....................... (925) 208-4260
22 Beta Court
San Ramon, CA 94583
Fax: (925) 208-4251
Email: gc@cti-ct.com
Website: www.cti-ct.com

Miscellaneous:
Valves, actuators, controls, and field service.

Drill Cool Systems, Inc.
(see display ad page ??)

Al T. Champness .................... (661) 633-2665
627 Williams Street
Bakersfield, CA 93305
Fax: (661) 869-1269
Email: tom@drillcool.com
Website: www.drillcool.com

Drilling Fluids:
Drill Cool has focused on controlling wellbore temperatures through the cooling of drilling fluid at the surface.

Geothermal Separators:
The Drill Cool System offers drilling engineers the most advanced technology for safely and cost-efficiently completing geothermal, hot oil and gas well drilling operations.

EGS Consulting Inc.

Paul Brophy / Gene Suemnicht .................. (707) 595-8761
Waterfall Towers, Suite A112
2455 Bennett Valley Road
Santa Rosa, CA 95404
Fax: (707) 544-4127
Email: pbrophy@envegeo.com or gsuemnicht@envegeo.com

CTi Controltech
Valves • Actuators • Controls • Field Service

George Constas
22 Beta Court
San Ramon, CA 94583
Tel 925.208.4250
Fax 925.208.4251
Direct 925.208.4260
Cell 925.487.9310
www.cti-ct.com
gc@cti-ct.com
Environmental Management Associates Inc.
Dwight L. Carey / Heather Altman
(714) 529-3695
588 Explorer Street
Brea, CA 92821-3108
Cell: (714) 267-9906
Fax: (714) 529-8543
Email: dlcarey@emacorp.com
Website: www.emacorp.com

Economic Evaluation:
Permit requirement analyses; permit budget and schedule preparation; environmental regulatory audits.

Environmental Services:
Permit preparation and acquisition; environmental document preparation, review and management.

Geologist Extraordinaire
Joe LaFleur
(541) 741-7198
36700 Oak Point Road
Springfield, OR 97478
Fax: (541) 741-7198
Email: lafleur113@aol.com
Website: geologistextraordinaire.com

Exploration:
Geothermal exploration expertise and oversight: 37 years of successful foreign and domestic geothermal exploration experience. “Lucky and good.” Ask around.

Geothermal Development Associates
G. Martin Booth III
(775) 825-5800
3740 Barron Way
Reno, NV 89511
Fax: (775) 825-4880
Email: info@gdareno.com
Website: www.gdareno.com

Direct Use:
Resource assessment; wellfield development; and engineering design of industrial and commercial direct-use projects, including dehydration, greenhousing and aquaculture.

Economic Evaluation:
Modeling of project economics, including capital cost estimates, operating cost and revenue projections. Asset valuations, including resource, equipment, and sales contracts for power and direct-use projects.

Environmental Services:
Project environmental and permitting services, including planning, implementation, and coordination of permitting requirements with development activities.

Exploration:
Exploration surveys, planning, risk analyses, and implementation, from geological through drilling confirmation.

Lease / Project Evaluation:
Technical, financial, and risk evaluations for projects of all types, from resource to market.

Power Generation:
Mechanical and electrical engineering of binary, steam and hybrid power plants; design optimization; plans, specifications, procurement and construction support.

Project Development:
Project planning, conceptual design and optimization, from wellfield development through plant construction and commissioning.

Geothermal Resource Group
(see display ad on back cover)
William M. Rickard
(760) 341-0186
P.O. Box 11898
Palm Desert, CA 92255
Fax: (760) 341-9673
Email: services@geothermalresourcegroup.com
Website: www.geothermalresourcegroup.com

Drilling Engineering:
Geothermal Resource Group provides complete geothermal drilling engineering services including well design, workover design, detailed drilling procedures, and permit preparation. GRG drilling engineers design wells to meet the project needs and reduce drilling risk, including analysis of available data to determine the most efficient drilling practices and development of less expensive, more efficient drilling techniques.

Drilling Supervision:
Geothermal Resource Group provides global onsite management and supervision of all drilling and testing operations, and engineering oversight for critical operations. Our professional supervisory staff is among the most experienced in the world.

Exploration Geoscience:
Geothermal Resource Group engineers and geoscientists can help you with initial geoscience investigation and site evaluation, development of an exploration strategy,
and management of the exploration process, including development of a conceptual model and selection of drilling targets.

**Project Management:**
Geothermal Resource Group offers comprehensive geothermal development and management services, including customized solutions to suit specific needs. GRG provides logistics and coordination services to keep your project on-time and on-budget, reducing total development cost.

**Resource Assessment:**
Experts in resource assessment, Geothermal Resource Group can design geothermal well testing, design flow test equipment, facilitate procurement and installation, provide field supervision, data collection, and test results evaluation.

**Training:**
Geothermal Resource Group offers provides a Geothermal Well Design and Drilling course that is approved by the National Council of Examiners for Engineering and Surveying (NCEES) and the American Council of Engineering Companies (ACEC). The course is intended primarily for drilling engineers, drilling managers, geoscientists, reservoir and production engineers, and regulatory agency personnel. The course can be structured to benefit managerial, logistical and production staff as well. GRG also delivers on-site and remote training modules in all aspects of exploration, drilling and resource assessment, customized to meet your needs.

---

**Geothermal Resources Council**

(see display ad on page 41)

**Steve Ponder**.......................... (530) 758-2360
P.O. Box 1350
Davis, CA 95617-1350
Fax: (530) 758-2839
Email: grc@geothermal.org
Website: www.geothermal.org

**Education:**
With the experience and dedication of its diverse, international membership bolstering a 44-year track record, the GRC has built a solid reputation as one of the world’s premier geothermal associations. The GRC serves as a focal point for continuing professional development for its members through its outreach, information transfer and education services.

---

**Geothermal Science, Inc.**

**Richard Holt**.......................... (760) 673-7410
14252 Culver Drive, #A216
Irvine, CA 92604
Fax: (760) 841-3902
Email: info@geothermalscience.com
Website: www.geothermalscience.com

**Consulting Services:**
Reservoir modeling, geothermal resource assessment, reservoir engineering, field testing.

---

**Geothermal Solutions, Inc.**

**Frank Pelant**.......................... (760) 341-0186
P.O. Box 11898
Palm Desert, CA 92255
Fax: (760) 341-9673
Email: services@geothermal-solutions.com
Website: www.geothermal-solutions.com

**Chemical Services:**
Geothermal Solutions, Inc. offers geothermal chemical engineering products and services, product development, field trials and test systems, multi-matrix lab capabilities and geothermal process monitoring.

**Consulting Services:**
Geothermal Solutions’ highly experienced team provides a full discipline of chemical engineering products and services for effective wellfield and power plant operations.

**Corrosion Control:**
Geothermal Solutions, Inc. provides effective corrosion control products, monitoring and services that ensure continuous operation. Real-time controllers and monitoring that provide corrective solutions.

**Scale Inhibitors:**
Geothermal Solutions, Inc. provides effective scale inhibitors for all geothermal processes, including cost-efficient treatment and monitoring programs for control of calcium carbonate, calcium sulfate, and amorphous silica and metal silicates.

**Well Testing:**
Geothermal Solutions’ well testing services include flow test equipment design, procurement and installation, field operation and data collection, chemical sampling, laboratory analysis, and analytical results evaluation.
GeothermEx, Inc.  
(a Schlumberger Company)  
(see display ad on page 42)  

3260 Blume Drive, Suite 220  
Richmond, CA 94806  
Fax: (510) 527-8164  
Email: geothermexinfo@slb.com  
Website: www.geothermex.com

Chemical Services:  
Christopher Klein, cklein3@slb.com  
Fluid sampling of wells, springs and fumaroles; database development and management; resource evaluation and geochemical modeling; setup of field labs; personnel training; evaluation of corrosion and scaling; mitigation, inhibitor design and testing; pH control.

Consulting Services:  
Ann Robertson-Tait, ann1@slb.com  
Consulting in all aspects of geothermal exploration, development, utilization, operation, field management, technology transfer, and project financing.

Direct Use:  
James Lovekin, jlovekin@slb.com  
Development and evaluation of low-enthalpy resources, including resource analysis, well design, drilling, testing, pump selection and installation, economic analysis, surface facilities design, and environmental monitoring.

Drilling Completion:  
Eduardo Granados, egranados2@slb.com  
Well design; budget preparation; procurement; contract negotiation; management of drilling, coring, logging, completion and testing; drilling supervision; pump installation; diagnosis of well problems; emergency assistance; well workovers, repairs and abandonment.

Economic Evaluation:  
Subir Sanyal, ssanyal@slb.com  
Cash flow and profitability analysis, reserve estimation, evaluation, of net present value, property valuation; Monte Carlo simulation, negotiation of steam and power sales agreements, due diligence for project financing and acquisitions.

Education:  
Christopher Klein, cklein3@slb.com  
On-site or in-house training on “the basics,” plus detailed courses on geothermal exploration, geochemistry, resource evaluation, drilling, well testing, reservoir engineering, and numerical simulation.

Exploration:  
Roger Henneberger, rhenneberger@slb.com  
Worldwide experience in cost effective, high-quality geological, geochemical and geophysical exploration, analysis and interpretation; well siting and drilling; well test design, implementation and analysis; and resource evaluation.

Lease / Project Evaluation:  
Ann Robertson-Tait, ann1@slb.com  
Geoscientific, engineering and economic evaluation; feasibility studies; determination of reserves; reservoir performance forecasts; bid preparation; design of exploration and development programs; contract negotiation; master planning; and market studies.

Project Development:  
James Lovekin, jlovekin@slb.com  
Wellfield development, resource management and optimization, injection strategies, chemical monitoring, scale/corrosion management, permitting, and contract negotiation.

Reservoir Assessment:  
Minh Pham, mpham@slb.com  
Integrated resource modeling, including geology, geochemistry, geophysics, well test analysis and numerical simulation; reserve estimation; technology transfer; and financial due diligence.

Well Testing:  
James Lovekin, jlovekin@slb.com  
Complete turnkey well testing services (design, procurement, testing, analysis and reporting); on-site well test supervision; fluid sampling; analysis of test data collected by others. Experience in all types of geothermal reservoirs (steam, two-phase, liquid, hyper-saline, high gas, etc.) and working environments.

---

**Nevada Water Solutions LLC**

*Water Rights / Resource Permitting Expertise*

**Thomas K. Gallagher, PE**

*Hydrologic Engineer*

*Over 31 years of experience with the Nevada State Engineer's Office*

775-825-1653 / FAX 775-825-1683
675 Sierra Rose Dr., #109 / Reno, NV 89511
tomg@nevadawatersolutions.com
Horizon Well Logging, Inc.
(see display ad on page 43)

Douglas Milham ...................... (805) 469-2039
711 Saint Andrews Way
Lompoc, CA 93436
Fax: (805) 733-0992
Email: dmillham@horizonwells.com
Website: www.horizon-well-logging.com

Geological Services:
Wellsite geologist, formation logging from mud or air drilling, data management and communications.

Mud Logging:
Formation logging (mud/air); well site geology; instrumentation; gas detection and analysis; continuous real-time data on website.

Luminate, LLC

Jon Neff ......................................... (303) 860-7627
1801 Broadway, Suite 1620
Denver, CO 80202
Fax: (303) 860-7647
Email: info@luminatellc.com
Website: www.luminatellc.com

Consulting Services:
Project development support, contract development, independent engineering, asset management and optimization, environmental management, conflict support, and restructuring advice.

Ormat Technologies, Inc.

Heidi Bethel ......................... (775) 356-9029
6225 Neil Road
Reno, NV 89511-1136
Fax: (775) 823-5401
Email: hbethel@ormat.com
Website: www.ormat.com

Power Generation:
Equipment supply and EPC turnkey installation of ORMAT-supplied steam, binary and geothermal combined cycle power modules from 0.6 MW to 30 MW, and power plants to over 130 MW, including assistance in financing, with or without operations and maintenance.

Project Development:
Development, including financing, power equipment supply, EPC construction and operation of geothermal power objects under BO, BOOT, or BOO arrangements, both domestic and international.

Panorama Environmental, Inc.
(see display ad on page Y10)

Laurie Hietter ......................... (650) 373-1200
One Embarcadero Center, Suite 740
San Francisco, CA 94111
Fax: (650) 373-1211
Email: laurie.hietter@panoramaenv.com
Website: www.panoramaenv.com

Environmental Services:
NEPA/CEQA, permitting, government liaison, plan preparation, baseline studies.

Tame your hot well with a GEO COOLER
DRILLING FLUID CHILLER

- Keeps drilling fluids at optimum temperatures
- Increases drill bit life
- Helps prevent pipe corrosion

Drill Cool SYSTEMS, INC

262 N. Sam Houston Parkway E.
Suite 410, Houston, TX 77060
281.820.1110

627 Williams St.
Bakersfield, CA 93305
661.633.2665

www.drillcool.com
POWER Engineers, Inc.
(see display ad on inside front cover)

Kevin Wallace ......................... (208) 788-3456
P.O. Box 1066, Hailey, ID 83333
Fax: (208) 788-2082
Email: kwallace@powereng.com
Website: www.powereng.com

Consulting Services:
Full engineering design cycle selection and design, flash and binary plants.

Power Generation:
Full engineering design cycle selection and design, flash and binary plants.

Prospect Geotech LLC
(see display ad on page Y4)

Bruce Vesterby ......................... (505) 228-3132
Email: bvesterby@prospectgeotech.com
Website: www.prospectgeotech.com

Geological Services:
Evaluation: oil, gas, geothermal and minerals.

Mud Logging:
Wellsite geology, formation evaluation, data acquisition w/real time internet feed and H₂S training.

Ruppel Marketing

Jim Ruppel ......................... (661) 871-5354
2707 Vyn Drive, Bakersfield, CA 93306
Cell: (661) 301-8092
Fax: (661) 871-3218
Email: rplmkttg@aol.com
Alternate Email: ruppelmarketing@sbcglobal.net

Chemical Services:
Capillary tubing chemical injection systems with support equipment.

Drilling completion:
Casing and tubular products, liner hangers, well heads, valves, completion equipment.

Miscellaneous:
Custom designed wireline units with support equipment, capillary tubing pressure monitoring systems, flow meters, flow testing systems, data loggers with support software.

Reservoir Assessment:
Instrumentation for long-term pressure/temperature monitoring systems with capillary tubing and stand alone data loggers.

Scientific Drilling

Patrick Hanson .........................(281) 443-3300
16701 Greenspoint Park Drive, Suite 200
Houston, TX 77060
Fax: (281) 872-0005
Email: patrick.hanson@scientificdrilling.com
Website: www.scientificdrilling.com

Directional Drilling:
Drilling systems, drilling motors, measurement while drilling (MWD), and logging while drilling (LWD).

Other:
Magnetic ranging, anti-collision, well interception, and MagTraC MWD ranging (TM).

Well Testing:
Case Hole Services, multi-finger calipers, flow logging services, casing, and tubing investigation.
Sinclair Well Products
(see display ad on page Y4)

John D. Tuttle ....................... (800) 782-3222
10602 Midway Ave.
Cerritos, CA 90703
Fax: (562) 403-3564
Email: j.tuttle@sinclairwp.com
Website: www.sinclairwellproducts.com

Drilling Fluids:
Geothermal drilling fluids and engineering services; hi-temp additives foamers and corrosion inhibitors; innovative lcm solutions; mix tanks; drilling waste management services.

Exploration:
Geothermal coring fluids and technical services; slim-hole coring consumables and supplies; sourcing of capital equipment.

Thermochem, Inc.

Paul Hirtz ..................... (707) 575-1310
3414 Regional Parkway, Suite A
Santa Rosa, CA 95403
Fax: (707) 575-7932
e-mail: paul@thermochem.com
Website: www.thermochem.com

Chemical Services:
Analytical laboratories for complete condensate, brine, gas, tracer and scale deposit analyses. Interwell vapor-, liquid- and two-phase tracer tests. Chemical engineering for corrosion, scale and emissions control. Design and manufacturing of pH control and inhibitor delivery systems for the sub-surface, gathering systems and power plants.

Consulting Services:
Resource consulting in geochemistry and reservoir engineering, well testing design and management, power plant process chemistry simulations and optimization, corrosion and scaling evaluations, and environmental emission control. Permitting support, expert witness, due diligence and training workshop services.

Corrosion Control:
Comprehensive corrosion testing services including NDE, coupon, corrosimeter, pilot plant tests and failure analysis. Process chemistry optimization for corrosion mitigation, corrosion inhibitor development. Specializing in HCl removal from steam and acid brine control.

Environmental Services:
Analytical laboratory services for condensate, brine and gas; on-site source testing for H2S, benzene, metals and other air toxics. EPA and CARB approved methodology. Experts in H2S and Benzene abatement technologies and process optimization. Permit interpretation and compliance plan services.

Exploration:
Worldwide green field geothermal exploration services with bases in the USA and Indonesia. Geochemical surveys conducted in all environments, including blind systems using soil gas techniques. From raw data collection to conceptual model development, our 25 years of expertise will support your development from the ground up.

Geochemical Surveys:
Expert geochemical surveys using state-of-the-art techniques, including on-site analyses to focus efforts on high-quality features. Field surveys are supported by our geothermal fluid analysis laboratories in the USA and Indonesia. Trace gas analysis, water and condensate chemistry, isotope analysis and soil gas surveys. Geochemical modeling, interpretation and conceptual model development.

Geochemical Separators:
Separator efficiency testing, steam wash optimization, steam quality and purity testing, continuous on-line steam quality and purity monitoring instrumentation, HCl removal.

H2S Abatement:
Source testing power plants and steam vents for H2S using EPA, CARB and SCAPCD approved methodology. Experts in H2S abatement technology and process optimization for well testing and steam venting applications. Well test H2S abatement process design, planning, permitting support and supervision.

Operations and Maintenance:
Optimization of chemical processes in geothermal power plants. Corrosion and scale inhibitor treatment design, with focus on low-cost commodity chemical solutions. Two-phase on-line flow metering, continuous chemical monitor instrumentation for steam quality, steam purity, NCG and H2S. Material testing and selection. Design and manufacture of pH-monitoring and control equipment, chemical delivery systems.

Reservoir Assessment:
Well performance evaluation including two-phase on-line flow metering without separation for mass flow
and enthalpy determination, geochemical analysis and interpretation, single and two-phase downhole sampling, high-temperature PTS tools. Reservoir geochemical modeling, reservoir engineering and long-term integrated monitoring programs.

Well Testing:
Well testing using low-cost, portable atmospheric mufflers, two-phase on-line flow metering without separators, fluid sampling, on-site and laboratory chemical analysis. H₂S abatement process design and hardware, permit support and supervision. Single and two-phase downhole sampling and PTS logging services.

Two-Phase Engineering & Research, Inc.
Doug Jung .........................(707) 523-4585
3209 Franz Valley Road
Santa Rosa, CA 95404
Fax: (707) 528-2071
Email: two-phase@juno.com
Website: www.two-phase.com

Geothermal Separators:
Conventional or advance geothermal separators and scrubbers for drilling, well-testing, steam venting, and for power plant protections. Trouble-shooting, design and optimization of multiphase flow systems.

Weatherford International, Ltd.
(see display ad on this page)
Mike Mills .........................(707) 374-6493
1000 Church Road
Rio Vista, CA 94571-1129
Fax: (707) 374-6192
Email: mike.mills@weatherford.com
Website: www.weatherford.com

Drilling Services: Rental and Fishing:
Rental Services: blow out pressure equipment, tubular, down hole services, liner hangers, whipstocks, milling services, washpipe, and drilling jars.

Western Cultural Resource Management, Inc. (WCRM)
Mark Demuth .....................(775) 358-9003
890 E. Greg Street
Sparks, NV 89431
Fax: (775) 358-1387
Email: mark.demuth@wcrminc.com
Website: www.wcrminc.com

Cultural Resource Management:
Archaeology, planning, ethnography/Native American issues.
Louis Capuano, President & CEO of Capuano Engineering has been in the Geothermal industry since 1974. Capuano Engineering has extensive knowledge and experience in designing geothermal drilling programs throughout the world.

707 595 8740
2455 Bennett Valley Road Suite A112 • Santa Rosa, CA 95404
www.capuanoengineering.com

Providing Confidence At Your Wellsite.

Geothermal wells site geologists & mudlogging worldwide.
- Wellsite & Website Data Services
- Advanced Rig Instrumentation & EDR
- H2S Equipment & Abatement
- Decades of Geothermal Wellsite Experience

Doug Milham, President
California Office: +1.805.733.0972
Central America Office: +501.667.2790
www.horizon-well-logging.com
In Portland, beer is more than just a beverage. It’s a way of life. These microbrews are an art form that fits perfectly with the city’s creative food, wine and coffee culture. Nicknamed “Beervana,” Portland has more than 50 breweries located within city limits. Whether you’re sampling a new ale or savoring a favorite stout, it will be a delicious, hand-crafted experience your taste buds won’t soon forget. Visit travelportland.com to learn how you can experience Portland after your GRC Annual Meeting and GBA Expo.
ThermaSource
www.ThermaSource.com

ThermaSource Drilling
1-707-523-2960
3883 Airway Dr. Suite 340
Santa Rosa, CA 95403

ThermaSource Cementing, Inc.
1-530-476-3333
7085 Eddy Road, Area G
Arbuckle, CA 95912

ThermaSource Tecton Geologic
1-707-836-2112
110 Dry Creek Road
Healdsburg, CA 95448
Providing Superior Results

Geothermal Services:

- Geothermal Resource Assessment
- Exploration Geology, Geochemistry, and Geophysics
- Drilling Engineering and Supervision
- Reservoir Engineering

QUALITY WORK | REDUCED RISK | INCREASED OUTPUT

www.geothermalresourcegroup.com