



Welcome to the SMU Geothermal Lab newsletter for October. In this newsletter we have many congratulations, an opportunity for funding and some upcoming workshops.

SMU Geothermal Lab News and Notes

Maria Richards and **Joe Batir** will be at the **GRC Meeting in Reno, Nevada, October 14-17, 2018**. Stop by the Deep Direct Use session on Monday afternoon to see the SMU presentation. There will also be a related presentation by Craig Turchi (NREL) Weds afternoon.

Congratulations

Congratulations to **ElectraTherm** on being selected by the U.S. Department of Energy for approximately \$1.4 million towards a cooperative agreement. The milestone-based funding will enhance reciprocating engine based **combined heat and power** (CHP) systems via integrated waste heat to power **Organic Rankine Cycle** (ORC) technology. More information: <https://electratherm.com/electratherm-selected-for-1-4-million-cooperative-agreement-from-department-of-energy-for-advanced-combined-heat-power-technology/>.

Congratulations to **LoCap Energy** on kicking off their **technology validation/optimization project** with NREL. More information: <https://locapenergy.com/about-copy/>.

Congratulations to **C-Crete Technologies, LLC, Fervo Energy Company, Hotrock Energy Research Organization (HERO)** and **Welltec, Inc.** on being selected by the DOE for early-stage research and development of tools and technologies for enhanced geothermal systems (EGS). More information: <https://www.energy.gov/eere/articles/energy-department-awards-445-million-geothermal-zonal-isolation-research>.

Congratulations to **Bert Shipley** and his team from **NET Power** working on the new **Allam Cycle** technology that uses super critical carbon dioxide to drive a turbine for electricity production. More information: <https://www.bloomberg.com/news/videos/2018-07-03/this-natural-gas-plant-has-achieved-zero-emissions-video> and <https://www.mcdermott.com/Markets-Served/Power/NET-Power>.

Opportunity for Funding

The U.S. Department of Energy's **Water Power Technologies Office** recently released a Funding Opportunity Announcement worth up to **\$9 million** for innovations that reduce cost and maximize the value of new stream-reach hydropower development and pumped-storage hydropower. They are looking to **leverage innovations from the geothermal industry**. Full applications due November 30, 2018. More information: <https://eere-exchange.energy.gov/Default.aspx#Foald27fcaee4-3832-4a59-9a1e-b10d572c8827>.

Geothermal News and Notes

Dave Koger put together a **lineament map of Nebraska** that is available on the Nebraska Oil and Gas Conservation Commission website. A July 21, 2018 earthquake with an intensity of 3.5 Mag recorded north of Valentine, Nebraska was associated with a previously identified lineament, as was every recorded earthquake in Nebraska over the past 10 years. More information: <http://www.nogcc.ne.gov/LANDSAT/> and <https://www.davekoger.com/>.

Geothermal Heat Pump News and Notes

IGSHPA has put together a **Standards Specification Document** for ground source heat pump systems and a **Professional Qualification Standard for Residential/Light Commercial Designers**. More information: <https://igshpa.org/standards>.

Other Event Details

2019 Stanford Geothermal Workshop February 11-13, 2019 abstract submissions closes on Tuesday 16th October 2018. Submit an abstract at <http://pangea.stanford.edu/ERE/db/GeoConf/index.php>.

C-FER Technologies is presenting the workshop **Thermal Well Design & Integrity for Geothermal Applications** at the GRC Meeting in Reno, Nevada on Thursday **October 18, 2018**. More information: <https://www.cfertech.com/>.

TREIA has added more opportunities for **networking** at the **GridNEXT Conference**, Georgetown, Texas on **October 21-23, 2018**. Events include Spa Day, Golf outing, Meet the Board Breakfast and a Texas Market Workshop. More information: <https://www.treia.org/event-calendar/2018/10/21/gridnext-2018-conference>

Environmentally Friendly Drilling and the **DOE Combined Heat & Power Technical Assistance Partnership** are holding a half-day **CHP/WHP in O&G Workshop** in Denver, Colorado on **October 29, 2018**. The workshop will cover Combined Heat and Power and Waste Heat to Power in oil and gas operations including current applications and experiences in mid/downstream from the operators'/companies' perspectives. More information: AWilcox@HARCResearch.org or Susan@HeatisPower.org

Calendar

October 14-17, 2018 - GRC Annual Meeting, Reno, Nevada. SMU presentation Monday afternoon in the Deep Direct Use session. More information: <https://www.geothermal.org/meet-new.html>.

October 18, 2018 - Thermal Well Design & Integrity for Geothermal Applications workshop, Reno, Nevada. More information: <https://www.cfertech.com/>.

October 21-23, 2018 - TREIA's 2018 GridNEXT conference, Georgetown, Texas. More information: <http://www.treia.org/gridnext/>.

October 29, 2018 - CHP/WHP in O&G Workshop, Denver, Colorado. More information: AWilcox@HARCResearch.org or Susan@HeatisPower.org.

November 4-7, 2018 - Geological Society of America Annual Meeting, Indianapolis, Indiana. More information: <http://community.geosociety.org/gsa2018/home>.

November 7-9, 2018 - Hot Springs Connection, Glenwood Springs, Colorado. More information: <https://www.hotspringsconnection.com/>.

November 21-22, 2018 - Global Geothermal Energy Summit, Amsterdam, The Netherlands. More information: <https://www.wplgroup.com/aci/event/global-geothermal-energy-summit/>.

February 11-13, 2019 - Stanford Geothermal Workshop, Stanford University, California. More Information: <https://geothermal.stanford.edu/events/workshop>.

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