

**From:** Richards, Maria <[mrichard@mail.smu.edu](mailto:mrichard@mail.smu.edu)>  
**Sent:** Friday, May 07, 2021 1:53 PM  
**To:** geothermal-oil <[smu-geothermal-oil@list.smu.edu](mailto:smu-geothermal-oil@list.smu.edu)>  
**Subject:** SMU Geothermal Lab Newsletter for May



Hello and Welcome to the May Newsletter,

### SMU Geothermal Lab News and Notes

**Matthew Hornbach** is using his SMU designed well logging gear for a collecting data in Mono Lake, California. Matt and graduate student **Josh Sylvester** recently deployed the two instruments to measure the real-time temperature of the lake's water at multiple depths, and of the sediments underlying the lake floor. This year long project is funded by the **USGS, NSF-MGG (Marine Geology & Geophysics)** and **NSF-EAR (Earth Sciences)**. Read about the science at <https://www.usgs.gov/center-news/new-survey-plumbs-mono-lakes-depths-hydrothermal-heat>.

The **Texas Legislature House Bill 3576** (<https://capitol.texas.gov/BillLookup/History.aspx?LegSess=87R&Bill=HB3576>), sponsored by **Representative Bobby Guerra**, moved forward from the Energy Resources committee with an 8 – 0 vote. Next it will be assigned a full House vote. **Cindy Taff**, Sage Geosystems, **Ken Wisian**, UT Austin BEG, and **Maria Richards** all testified April 12th. You can view the committee video at [tlchouse.granicus.com/MediaPlayer.php?view\\_id=46&clip\\_id=20242](https://tlchouse.granicus.com/MediaPlayer.php?view_id=46&clip_id=20242). This bill encourages the Texas Railroad Commission to assist in assessment of the Texas geothermal resources.

The **SPE California Sustainability Study Group Webinar** will include **William Glassley** of UC Davis and **Maria Richards** as presenters to discuss how to transition oil and gas fields to generate geothermal energy. May 27, 2021 noon – 1 pm PDT followed by an open group discussion. For registration details, contact Tony Zamora at [info@tonyzamora.com](mailto:info@tonyzamora.com).

There are DOE Geothermal Technologies Office (GTO) opening funding opportunities available. Contact [Maria](#) if you'd like to include the SMU Geothermal Lab and Huffington Dept of Earth Sciences as research and outreach partners.

### News and Notes

**DOE GTO** has four items for you. They are busy!

They are *hiring a Technology Manager* in the Data, Modeling, and Analysis (DMA) subprogram in Golden, Colorado, or Washington, D.C. Further application information is on the EERE Employment Opportunities Page (<https://www.energy.gov/eere/employment-opportunities-eere>).

A Request for Information *DE-FOA-0002524: Opportunities to Improve Geothermal Technology Cost and Performance Modeling* is an open call to assist them in understanding of geothermal technology costs and performance assumptions for modeling and planning efforts to find gaps for future efforts. Submit responses by May 28<sup>th</sup>.

The Request for Proposal is *DE-FOA-0002498 Innovative Methods to Control Hydraulic Properties of Enhanced Geothermal Systems*. The full application is due June 15<sup>th</sup>.

Congratulations to **West Virginia University** as they move forward with an analysis of geothermal deep direct-use combined with reservoir thermal energy storage on their Morgantown campus. Congratulation to **Sandia National Laboratories** for research on finding hidden geothermal targets via innovative helicopter-based electromagnetic surveys, then use of surface magnetotelluric surveys.

**Petrolern LLC** is offering the *Geothermal Resource Decision Workshop* as a virtual hands-on introduction to geothermal exploration and development. I highly suggest you pull together your resource team to learn about predicting reservoir properties and estimates uncertainty to support high value decisions. The instructors are top in the geothermal field having experience on every continent: **William Cumming, Irene Wallis, Nicholas Hinz, Jonathon Clearwater, Amanda Lonsdale, and Anna Colvin**. The E-course is May 24 to 27. Read more details at [https://www.petrolern.com/wp-content/uploads/2021/04/Geothermal-Resource-Decision-Workshop\\_Final-1.pdf](https://www.petrolern.com/wp-content/uploads/2021/04/Geothermal-Resource-Decision-Workshop_Final-1.pdf).

The **Cornell University, Earth Source Heat** project put online their video recording of the January 19<sup>th</sup> meeting (<https://news.cornell.edu/stories/2021/01/borehole-reveal-potential-geothermal-heating>). It is an excellent project overview and community discussion.

The **PIVOT2021** online conference will be **July 19 to 23<sup>rd</sup>**. **TexasGEO** invites geothermal startups and founders to join a **New Venture Competition**. Fill out their [survey](#) to compete by May 28, 2021.

**Resources for the Future** completed their report, *The Value of Advanced Energy Funding: Projected Effects of Proposed US Funding for Advanced Energy Technologies*, by Daniel Shawhan, Kathryn Cleary, Christoph Funke, and Steven Witkin. It highlights geothermal development and how it compares to other energy opportunities. Download the report for free at <https://www.rff.org/publications/working-papers/projected-effects-proposed-us-funding-advanced-energy-technologies/>.

### **Request for Geothermal Heat Pump Community**

An **ASHRAE research study** is looking into long-term temperatures for ground heat exchangers and comparing measurements with models commonly used in the industry. If you are an installer or owner of a system, please share your experience and data with **Carina Paton** of Frontier Energy by phone 605-592-6837 or email [cpaton@frontierenergy.com](mailto:cpaton@frontierenergy.com).

### **Celebration**

Congratulations to the **American Made Geothermal Prize** awardees! Half of the 10 winners are from Texas. The list of 10 winners is a mix of large and small companies from multiple industries. Learn more about the projects at <https://americanmadechallenges.org/geothermalmanufacturing/index.html>.

Regardless of if you live in Texas or not, the **Take Care of Texas** (<http://takecareoftexas.org>) newsletter and website are full of positive interactive videos, news updates, and knowledge building activities. Thank you Texas Commission on Environmental Quality (TCEQ)! FYI - Blue Bonnets are abundant this year!

This week is **Teacher Appreciation Week**. Whether you are 10 or 90 years old, we all have people who teach us. Take a moment to send them a note or call saying Thank You! This year teachers are especially impressive. My sister Jeannie teaches 2<sup>nd</sup> graders. Like everyone else she converted all

lessons to virtual – WOW! It gave me an opportunity to watch her in action and she is dynamic, humorous, and