## MARIA CHRISTINE RICHARDS

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## **Education**

BS: Environmental Geography, Michigan State University, East Lansing, MI., 1986

MS: Physical Geography, Watershed Management, University of Tennessee, Knoxville, TN, 1991.

## Career

**Geothermal Laboratory Coordinator and Researcher:** Huffington Department of Earth Sciences, Southern Methodist University, Dallas, Texas, 1995-present.

Maria Richards is a researcher and fundraiser for the Geothermal Lab, a self-supporting organization, as both a Principal Investigator on grants/contracts and through solicitation of sponsorship from companies. She works directly with faculty and students overseeing related geothermal research from initial application, management of budget, to final report with primary funding from companies (e.g., Google.org, Anadarko Petroleum), State Agencies (e.g., TXSECO), and Federal Agencies (e.g., Department of Energy; National Laboratories). She develops outreach programs on geothermal energy and the environment, coordinates research software, and facilitates learning activities between SMU and community programs. P

## **Selected Publications**

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- Blackwell, David, M. Richards, Z. Frone, J. Batir, A. Ruzo, R. Dingwall, and M. Williams 2011, Temperature at depth maps for the conterminous US and geothermal resource estimates, Geothermal Resources Council Transactions, v. 35.
- Blackwell, D. D., Joseph Batir, Zachary Frone, Junghyun Park, and Maria Richards, 2010, New geothermal resource map of the northeastern US and technique for mapping temperature at depth, Geothermal Resources Council Transactions, v. 34. Document ID 28663.
- Coolbaugh, M., Zehner, R., Kreemer, C., Blackwell, D., Oppliger, G., Sawatzky, D., Blewitt, G., Pancha, A., Richards, M., Helm-Clark, C., Shevenell, L., Raines, G., Johnson, G., Minor, T., and Boyd, T., 2005, Geothermal potential map of the Great Basin, western United States: Nevada Bureau of Mines and Geology Map 151.
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- Hornbach, Matthew, M. Richards, D. Blackwell, C. Mauroner, C. Brokaw, 2016. 40 years of Surface Warming Near Helena Montana Constrained from Temperature-Depth 1 Measurements: Implications for Winter Freeze-Line Retreat in the Northern US Rocky 2 Mountains, American Journal of Climate Change, submitted.
- Kweik, Ramsey; Blackwell, David; Hornbach, Matthew; Richards, Maria, 2014, Thermal and Mass History of Fairway Field in East Texas, Geothermal Resources C6 Td[Gr1(s)9t5(e)11(t)7.4(ehe)8i)5(c)-C6 T4-y o1(t)onC6 Td,.147nC6 Td4ae.,0.6 0 Td()TjEMC/P AMCID Resoces, GCAGS arctori,1137 for the fide of the following for the first of the