

Publications Related To These Projects

- **Meyer-Dombard, D.R.**, Osburn, M.R., Cardace, D., Arcilla, C.A. (2019) The effect of a tropical climate on available nutrient resources to springs in ophiolite-hosted, deep biosphere ecosystems in the Philippines. *Frontiers in Extreme Microbiology*, <https://doi.org/10.3389/fmicb.2019.00761>
- **Boblitt, C.M.**, Plotnick, R.E., Kenig, F., **Meyer-Dombard, D.** (2018). Determining taphonomic controls and rates of decay in cave environments using microcosms. *Palaios*, 33:141-153.
- Schubotz, F., Hays, L.E., **Meyer-Dombard, D.R.**, Gillespie, A., Shock, E.L., Summons, R.E. (2015). Stable isotope labeling confirms heterotrophy is a major metabolic pathway in streamer biofilm communities from alkaline hot springs. *Frontiers in Extreme Microbiology*. 6: Article 42. doi: 10.3389/fmicb.2015.00042.
- Schubotz, F., **Meyer-Dombard, D.R.**, Bradley, A.S., Fredricks, H.F., Hinrichs, K.-U., Shock, E.L., Summons, R.E. (2013). Spatial and temporal variability of biomarkers and microbial diversity reveal metabolic and community flexibility in Streamer Biofilm Communities in the Lower Geyser Basin, Yellowstone National Park, *Geobiology*. 11:549-569.
- **Loiacono, S.**, **Meyer-Dombard, D.R.**, Havig, J.R., Poret-Peterson, A., Hartnett, H., Shock, E.L. (2012). Evidence for high-temperature *in situ nifH* transcription in an alkaline hot spring of Lower Geyser Basin, Yellowstone National Park. *Environmental Microbiology*, **14**:1272-1283, doi:10.1111/j.1462-2920.2012.02710.x, 14:1272-1283.
- Havig, J.R., Raymond, J., **Meyer-Dombard, D.R.**, Zolotova, N., and Shock, E.L. (2011). Merging Isotopes and Community Genomics in a Siliceous Sinter-Depositing Hot Spring. vol. 116, G01005, doi:10.1029/2010JG001415, *JGR Biogeosciences*.

Conference Presentations Related To These Projects:

ORAL PRESENTATIONS:

- 6] **Meyer-Dombard, D.R.**, Cardace, D., **Woycheese, K.**, **Vallalar, B.**, **Casar, C.**, **Simon, A.**, Arcilla, C. (2016). Exploring the Deep Biosphere in Ophiolite-hosted Systems: What Can Metabolic Processes in Surface Seeps Tell Us About Subsurface Ecosystems in Serpentinizing Fluids? *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B33I-08, American Geophysical Union, Fall Meeting, 2016.
- 5] **Meyer-Dombard, D.R.**, **Loiacono, S.T.**, Shock, E. (2012). Community Response to a Heavy Precipitation Event in High Temperature, Chemosynthetic Biofilms and Sediments. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B43L-06, American Geophysical Union, Fall Meeting, 2012.
- 4] **Loiacono, S.T.**, Havig, J.R., Shock, E.L., Meyer-Dombard, D.R. (2012). High-temperature nitrogen cycling: merging genomics, transcriptomics, and geochemistry to evaluate nitrogen-cycling in terrestrial hydrothermal systems. AbSciCon 2012, Atlanta, GA. Abstract # 4053.
- 3] **Meyer-Dombard, D.R.**, **Burton, M.**, Havig, J., Shock, E. (2010). (*invited*). Nitrogen cycling in Hot Spring Sediments and Biofilms. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B23J-06, American Geophysical Union, Fall Meeting, 2010.
- 2] **Meyer-Dombard, D.R.**, Dibbell, A., Bradley, A.S., Shock, E.L., Summons, R.E. (2007). Microbial Diversity and SIP Investigations of Streamer Biofilm Communities in Yellowstone National Park. Goldschmidt Geochemical Conference. <http://www.goldschmidt2007.org/index.php>.

- 1] Summons, R.E.,** Meyer-Dombard, D.R., Bradley, A.S., Dibbell, A.K., Fredricks, H.F., Hinrichs, K.-U., Jahnke, L.L., Shock, E.L., and Amend, J.P. (2005). Molecular Studies of Filamentous and Biofilm-Forming Hyperthermophilic Communities in Yellowstone National Park. *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract B14A-01, American Geophysical Union, Fall Meeting, 2005.

CONTRIBUTED POSTER PRESENTATIONS:

- 12]** Meyer-Dombard, D.R., Cardace, D., Osburn, M.R. (2019) Following carbon in subsurface, alkaline spring environments: analogs for icy worlds in the Philippines. Astrobiology Science Conference 2019, Abstract #129-077.
- 11]** Meyer-Dombard, D.R., Cardace, D., Osburn, M.R. (2018). The deep biosphere in the jungle: following carbon in serpentinizing springs in a tropical surface biome. 7th Annual Midwest Geobiology Symposium, Chicago, IL.
- 10]** Meyer-Dombard, D.R., Cardace, C., Osburn, M.R., Arcilla, C. (2018) Considering surface influence on nutrient availability when examining deep subsurface ecosystems via terrestrial springs. Gordon Research Conference on Deep Carbon Science, Smithfield, RI.
- 9]** Meyer-Dombard, D.R., Cardace, C., Woycheese, K., Vallalar, B., Arcilla, C. (2017) Can surface seeps elucidate carbon cycling in terrestrial subsurface ecosystems in ophiolite-hosted serpentinizing fluids? *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B11G-0243, American Geophysical Union, Fall Meeting, 2017.
- 8]** Woycheese, K., Meyer-Dombard, D., Cardace, D., Arcilla, C., Ono S. (2017) Clumped isotope signatures of serpentinization-associated methane from the Philippines. Goldschmidt 2017, Paris.
- 7]** **Meyer-Dombard, D.R.,** Loiacono, D.R., Vassiliev, V., Shock, E.L., (2012). Parallel Datasets Reveal Carbon and Nitrogen Cycling in an Alkaline Hot Spring Ecosystem. Midwest Geobiology Symposium, September 22, 2012, Washington University in St. Louis.
- 6]** Woycheese, K.M., **Meyer-Dombard, D.R.** (2012) Integrated analyses of microbialites from Laguna Bacalar, Mexico and Salda Golu, Turkey: insights into astrobiological and paleoecological applications. AbSciCon 2012, Atlanta, GA. Abstract # 2227.
- 5]** **Meyer-Dombard, D.R.,** Gulecal, Y., Loiacono, S.T., Cardace, D., Uzunlar, N., Temel, M. (2011). Nitrogen cycling in ophiolite-hosted and fault-associated hydrothermal systems; spatial and temporal variations. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract 51B-0399, American Geophysical Union, Fall Meeting, 2011.
- 4]** Loiacono, S.T., **Meyer-Dombard, D.R.** (2011). In situ expression of functional genes reveals nitrogen cycling at high temperatures in terrestrial hydrothermal systems. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B51G-0492, American Geophysical Union, Fall Meeting, 2011.
- 3]** **Meyer-Dombard, D.R.,** Cardace, D., Loiacano, S., Güleçal, Y., Woycheese, K., Amend, J.P. (2011). Biogeochemical Cycling in Shallow-Sea and Terrestrial Hydrothermal Systems Goldschmidt Geochemical Conference, Prague. <http://goldschmidt2011.org/program/programIndex?letter=M>
- 2]** LaFree, S., Burton, M., **Meyer-Dombard, D.R.** (2010). Nitrogen cycling in Yellowstone National Park thermal features: using gene expression to reveal ecological function. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B21B-0324, American Geophysical Union, Fall Meeting, 2010.
- 1]** **Meyer-Dombard, D.R.,** Burton, M., Vennelakanti, S., Havig, J., Shock, E.L. (2009). Carbon and nitrogen cycling in thermally heated sediments. *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract B23C-0390, American Geophysical Union, Fall Meeting, 2009.