

Publications Related To Biogeography and Diversity 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>
- **Meyer-Dombard, D.R.**, Casar, C.P., Simon, A., Cardace, D., Schrenk, M.O., Arcilla, C.A., (2018). Biofilm formation and potential for iron cycling in serpentinization-influenced groundwater of the Zambales and Coast Range Ophiolites. *Extremophiles*, 22: 407-431.
- Woycheese, K.M., **Meyer-Dombard, D.R.**, Cardace, D., Argayosa, A., Arcilla, C. (2015). Out of the dark: Transitional subsurface-to-surface microbial diversity in a terrestrial serpentinizing seep (Manleluag, Pangasinan, the Philippines). *Frontiers in Extreme Microbiology*. 6: Article 44. doi: 10.3389/fmicb.2015.00044.
- **Meyer-Dombard, D.R.**, Woycheese, K.M., Yargıçoğlu, E.N., Cardace, D., Shock, E.L., Güleçal-Pektas, Y., Temel, M. (2015). High pH microbial ecosystems in a newly discovered, ephemeral, serpentinizing fluid seep at Yanartaş (Chimaera), Turkey. *Frontiers in Extreme Microbiology*. 5: Article 723. doi: 10.3389/fmicb.2014.00723.
- **Meyer-Dombard, D.R.**, Amend, J.P. (2014). Geochemistry and Microbial Ecology in Alkaline Hot Springs of Ambitle Island, Papua New Guinea. *Extremophiles*. 18:763-778.
- **Meyer-Dombard, D.R.**, Amend, J.P., Osburn, M.R. (2013). Microbial diversity and potential for arsenic and iron biogeochemical cycling at an arsenic-rich, shallow-sea hydrothermal vent (Tutum Bay, Papua New Guinea). *Chemical Geology*, 348:37-47. doi.org/10.1016/j.chemgeo.2012.02.024.
- Swingley, W.D., **Meyer-Dombard, D.R.**, Shock, E.L., Alsop, E.B., Falenski, H.D., et al. (2012) Coordinating Environmental Genomics and Geochemistry Reveals Metabolic Transitions in a Hot Spring Ecosystem. *PLoS ONE* 7(6): e38108. doi:10.1371/journal.pone.0038108
- 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.
- **Meyer-Dombard, D.R.**, Price, R., Pichler, T., Amend, J.P. (2012). Prokaryotic populations in heated, arsenic-rich sediments of a shallow-sea hydrothermal system, Ambitle Island, Papua New Guinea. *Geomicrobiology Journal*, 29:1-17.
- **Meyer-Dombard, D.R.**, Swingley, W., Raymond, J., Havig, J., Shock, E.L., Summons, R.E. (2011). Hydrothermal Ecotones and Silica-Rich Biofilm Communities in the Lower Geyser Basin, Yellowstone National Park. *Environmental Microbiology*; 13: 2216-2231.
- 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*.
- **Meyer-Dombard, D.R.**, Shock, E.L., Amend, J.P. (2005), Archaeal and Bacterial Communities in Geochemically Diverse Hot Springs of Yellowstone National Park, USA. *Geobiology*, 3, 211-227.

Conference Presentations Related To Biogeography and Diversity Projects:

CONFERENCE ABSTRACTS [PRESENTER IN BOLD, MEYER-DOMBARD STUDENTS UNDERLINED]:

INVITED ORAL PRESENTATIONS:

- 7] **Meyer-Dombard, D.R.**, Osburn, M.R., Cardace, D., Arcilla, A., Woycheese, K.M., Shock, E.L. (2018) (*invited*) Potential sources of carbon in terrestrial, energy limited environments. Gordon Research Conference on Geobiology, Galveston, TX.
- 6] **Woycheese, K.M.**, Meyer-Dombard, D.R., Cardace, D., Argayosa, A.M., Arcilla, C.A. (2014) (*invited*) Deep Subsurface Microbes in Terrestrial Serpentinizing Seeps. 3rd Annual Midwest Geobiology Symposium, Chicago.
- 5] **Meyer-Dombard, D.R.**, Cardace, D., Swingley, W.D., Woycheese, K., Schubotz, F., Shock, E.L. (2013) (*invited*) Inferring deep biosphere function and diversity through (near) surface biosphere portals. American Geophysical Union, Fall Meeting, 2013.
- 4] **Meyer-Dombard, D.R.**, Swingley, W., Raymond, J., Shock, E.L. (2012) (*invited*) Parallel geochemical and metagenomic datasets reveal biogeochemical cycling in a hot spring ecosystem. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B44B-02, American Geophysical Union, Fall Meeting, 2012.
- 3] **Woycheese, K.M.**, Yargıçoğlu, E.N., Cardace, D., and Meyer-Dombard, D.R. (2012). [*invited*] Biogeochemistry of a newly discovered fluid seep at Chimaera [Yanartaş], Turkey. Midwest Geobiology Symposium, September 22, 2012, Washington University in St. Louis. Oral presentation.
- 2] **Meyer-Dombard, D.R.**, Swingley, W., Raymond, J., Shock, E. (2012). [*invited keynote*]. Coordination of parallel datasets reveals geochemical, energetic, and genomic support for biogeochemical cycling in a hot spring ecosystem. AbSciCon 2012, Atlanta, GA. Abstract # 4051.
- 1] **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.

CONTRIBUTED ORAL PRESENTATIONS:

- 21] **Tanzillo, M.**, Meyer-Dombard, D.R., Bogner, J.E. (2020). Influence of elevated temperature on the microbiome of a municipal solid waste landfill. Geological Society of America annual meeting, 2020. Abstract#356851.
- 20] **Malas, J.**, Khoury, S., Tanzillo, M., Fischer, G.A., Bogner, J., Meyer-Dombard, D.R. (2020). Impact of changing waste streams on microbial ecology and biogeochemical cycling in landfill ecosystems. Geological Society of America annual meeting, 2020. Abstract#358928.
- 19] **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.
- 18] **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.
- 17] **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.

- 16] **Havig, J.R.**, Hamilton, T.L., Boyd, E., Meyer-Dombard, D.R., Peters, J.W., Shock, E. (2012). Effects of geochemical environmental drivers on microbial community size and structure in a hot spring ecosystem. AbSciCon 2012, Atlanta, GA. Abstract # 2023.
- 15] **Havig, J.R.**, Hamilton, T.L., Boyd, E.S., Meyer-Dombard, D.R., Shock, E. (2011). Effects of geochemical changes on microbial community structure in a hot spring ecosystem. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B31K-01, American Geophysical Union, Fall Meeting, 2011.
- 14] **Hamilton, T.L.**, Havig, J.R., Boyd, E.S., Meyer-Dombard, D.R., Shock, E., Peters, J. (2011) A shift in microbial community composition as a result of a natural temporal change in a hot spring ecosystem. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B31K-02, American Geophysical Union, Fall Meeting, 2011.
- 13] Raymond, J., **Meyer-Dombard, D.R.**, Shock, E.L. (2008). Phototrophs vs. chemotrophs: surprising diversity at the intersection of hot springs communities. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract B14A-03, American Geophysical Union, Fall Meeting, 2008.
- 12] **Meyer-Dombard, D.R.**, Raymond, J., Shock, E.L. (2008). Insights into Biofilm Function and Variability from Environmental Genomes and Geochemistry. YNP Research Coordination Network Workshop, Yellowstone National Park, MT.
- 11] **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>.
- 10] **Amend, J.P.**, Meyer-Dombard, D.R., Akerman, N.H., Osburn, M.R., Herndon, E.M., Garey, J.R., Rubelman, H., Wu, T. (2007). Archaea and Bacteria in an arsenic-rich shallow-sea hydrothermal system, Papua New Guinea. <http://www.goldschmidt2007.org/index.php>.
- 9] **Meyer-Dombard, D.R.**, Bradley, A.S., Havig, J.R., Raymond, J., Amend, J.P., Shock, E.L., Summons, R.E. (2006). Biogeochemistry of Siliceous Biofilms in Geothermal Ecosystems. Goldschmidt Geochemical Conference. <http://goldschmidt2006.org>. http://www.goldschmidt2006.org/cd/goldschmidt/pdf/0608025_meyerdombard01485.pdf
- 8] **Amend, J.P.**, Akerman, N.H., Meyer-Dombard, D.R., Osburn, M.R., Pichler, T., Price, R.E. (2006). Microbial communities and geochemical energy in an arsenic-rich marine hydrothermal system. Goldschmidt Geochemical Conference. <http://goldschmidt2006.org>
- 7] **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.
- 6] **Amend, J.P.**, Meyer-Dombard, D.R., Rogers, K., Rusch, A. (2004). Thermophiles and vent geochemistry at Vulcano (Italy) and Ambitle (Papua New Guinea). Goldschmidt Geochemical Conference. <http://www.goldschmidt2004.dk/>.
- 5] **Meyer-Dombard, D.R.**, Shock, E.L., Amend, J.P. (2003). Ecosystem Diversity in Yellowstone National Park. NASA Astrobiology Institute General Meeting, February 10-12, 2003. abstract # 12921. http://nai.arc.nasa.gov/institute/general_meeting_2003/AbstractBook.pdf (page 342)
- 4] **Shock, E.L.**, Meyer-Dombard, D.R., Amend, J.P., Fisher, T., Reysenbach, A.-L. (2003). Geochemical Habitats of Deeply Branched Lineages. NASA Astrobiology Institute General Meeting, February 10-12, 2003. Abstract # 12922. http://nai.arc.nasa.gov/institute/general_meeting_2003/AbstractBook.pdf (page 342)
- 3] Shock, E.L., **Meyer-Dombard, D.R.**, Amend, J.P. (2002). Energetics of Nitrogen Biogeochemistry in Hot Spring Habitats. *Eos Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract F294, American Geophysical Union, Fall Meeting, 2002.

- 2]** Meyer-Dombard, D.R., Shock, E.L., Amend, J.P. (2002). Geochemical Culturing Methods Link Hydrothermal Environments with Thermophilic Communities. Second Astrobiology Science Conference. <http://www.astrobiology.com/asc2002/abstract.html?ascid=106>
- 1]** Meyer, D.R., Shock, E.L., Amend, J.P. (2000). Geochemical Microenvironments in Hydrothermal Ecosystems. Goldschmidt Geochemical Conference. <http://www.campublic.co.uk/science/publications/JConfAbs/5/705.pdf>

CONTRIBUTED POSTER PRESENTATIONS:

- 52]** Malas, J., Khoury, S., Tanzillo, M., Fischer, G.A., Bogner, J., Meyer-Dombard, D.R. (2020) Impact of changing waste streams on microbial ecology and biogeochemical cycling in deep landfill ecosystems. American Geophysical Union, Fall Meeting, 2020.
- 51]** Tanzillo, M., Meyer-Dombard, D.R., Bogner, J.E. (2020) Influence of Elevated Temperatures on the Microbiome of a Municipal Solid Waste Landfill. American Geophysical Union, Fall Meeting, 2020.
- 50]** Tanzillo, M., Meyer-Dombard, D.R., Bogner, J. (2020). Influence of elevated temperatures on the microbiome of a municipal solid waste landfill. Geological Society of America annual meeting, 2020. Abstract#358951.
- 49]** Malas, J., Khoury, S., Tanzillo, M., Fischer, G.A., Bogner, J., Meyer-Dombard, D.R. (2020) Impact of changing waste streams on microbial ecology and biogeochemical cycling in landfill ecosystems. Geological Society of America annual meeting, 2020. Abstract#358928.
- 48]** Malas, J., Khoury, S., Tanzillo, M., Fischer, G.A., Patete, I.D., Bogner, J.E., Meyer-Dombard, D.R. (2019). Trash or treasure? Biogeochemical cycling in landfill ecosystems. Abstract B76-546328 (poster presentation). American Geophysical Union, Fall Meeting, 2019.
- 47]** Malas, J., Khoury, S., Tanzillo, M., Fischer, G.A., Patete, I.D., Bogner, J.E., Meyer-Dombard, D.R. (2019). Trash or treasure? Biogeochemical cycling in landfill ecosystems. 8th Annual Midwest Geobiology Symposium, St. Louis, MO.
- 46]** 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.
- 45]** 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.
- 44]** 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.
- 43]** 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.
- 42]** Meyer-Dombard, D., Cardace, D., Woycheese, K., Cordillo, E., Iringan, T., Pellejera-Oruga, N., Cabria, G.L., Arcilla, C. (2017). Geochemical Settings Of Microbial Biomes In Serpentinizing Springs Of The Philippines. Abstract BG04-A013, AOGS 2017, Singapore.
- 41]** Woycheese, K., Meyer-Dombard, D., Cardace, D., Cordillo, E., Cabria, G.L., Iringan, T., Arcilla, C., Ono, S. (2017). Serpentinizing Springs In The Philippines As Astrobiology Analogs For Mars And Beyond. Abstract BG04-A016, AOGS 2017, Singapore.
- 40]** Woycheese, K.M., Meyer-Dombard, D.R., Cardace, D., Arcilla, C.A., Ono, S. (2016). Metagenomic analysis of carbon cycling and biogenic methane formation in terrestrial serpentinizing fluid springs. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B31A-0458, American Geophysical Union, Fall Meeting, 2016.

- 39]** Vallalar, B., Meyer-Dombard, D.R., Cardace, C., Arcilla, C.A. (2016). Heavy Metal Resistant, Alkalitolerant Bacteria Isolated From Serpentinizing Springs in the Zambales Ophiolite, Philippines. *Eos Trans. AGU, Fall Meet. Suppl.*, Abstract B31A-0459, American Geophysical Union, Fall Meeting, 2016.
- 38]** Meyer-Dombard, D.R., Cardace, D., Woycheese, K.M., Arcilla, C.A. (2015). Habitats in serpentinizing fluids of the Philippines: complex interactions between the surface and subsurface biospheres. Astrobiology Science Conference 2015, Abstract #7406.
- 37]** Vallalar, B., Meyer-Dombard, D., (2015). Isolation of Cellulolytic Bacteria from high pH serpentinizing springs in the Philippines. Astrobiology Science Conference 2015, Abstract #7673.
- 36]** Casar, C.P., Meyer-Dombard, D.R., Cardace, D., Simon, A. (2015). Characterizing subsurface microbial Fe-reduction in a Martian analog serpentinizing system: Zambales Ophiolite, Philippines. Astrobiology Science Conference 2015, Abstract #7365.
- 35]** Woycheese, K.M., Yargicoglu, E.N., Gulecal-Pektas, Y., Cardace, D., Meyer-Dombard, D.R. (2015). Comparative phylogenetic and metagenomic analysis of an ultrabasic continental serpentinizing fluid seep at Yanartas (Turkey). Astrobiology Science Conference 2015, Abstract #7634.
- 34]** Casar, C., Meyer-Dombard, D.R., Simon, A., Cardace, C., Arcilla, C. (2014) Microbially-influenced Fe-Cycling within high pH serpentinizing springs of the Zambales Ophiolite, Philippines. American Geophysical Union, Fall Meeting, 2014. Abstract # V53A-4819.
- 33]** Woycheese, K.M., Meyer-Dombard, D.R., Cardace, C., Arcilla, C. (2014) Genetic legacy of the deep subsurface recorded in the outflow channel of a terrestrial serpentinizing seep (Luzon, the Philippines). American Geophysical Union, Fall Meeting, 2014. Abstract # B11H-0131.
- 32]** Meyer-Dombard, D.R., Woycheese, K.M., Cardace, C., Arcilla, C. (2014) Microbial Ecology of Terrestrial Serpentinizing Springs. 3rd Annual Midwest Geobiology Symposium, Chicago.
- 31]** Vallalar, B., Meyer-Dombard, D.R. (2014) Culturing Cellulolytic Bacteria from High pH Serpentinizing Springs. 3rd Annual Midwest Geobiology Symposium, Chicago.
- 30]** Meyer-Dombard, D.R., Cardace, D., Woycheese, K., Vallalar, B., Arcilla, C. (2013) Exploring the deep biosphere through ophiolite-associated surface springs. American Geophysical Union, Fall Meeting, 2013.
- 29]** Woycheese, K., Meyer-Dombard, D.R., Cardace, D., Gulecal, Y., Arcilla, C. (2013) Ecology of two terrestrial serpentinizing fluid seeps: a glimpse of the deep biosphere. American Geophysical Union, Fall Meeting, 2013.
- 28]** Meyer-Dombard, D.R., Cardace, D., Woycheese, K., Casar, C., Vallalar, B., Arcilla, C., (2013) Geochemistry of microbial environments in serpentinizing springs of the Philippines. 2nd Annual Midwest Geobiology Symposium, Indianapolis.
- 27]** Woycheese, K., Meyer-Dombard, D.R., Cardace, D., Arcilla, C. (2013) Phylogeny and niche partitioning in two serpentinizing fluid seeps. 2nd Annual Midwest Geobiology Symposium, Indianapolis.
- 26]** Vallalar, B., Meyer-Dombard, D.R., Woycheese, K., Casar, C., Cardace, D., Argayosa, L., Argayosa, V., Arcilla, C. (2013) Microorganisms cultured from highly alkaline serpentinizing springs in the Philippines. 2nd Annual Midwest Geobiology Symposium, Indianapolis.
- 25]** **Meyer-Dombard, D.R.**, Woycheese, K.M., Cardace, D., Arcilla, C. (2013). Geochemistry of Microbial Environments in Serpentinizing Springs of the Philippines. AOGS 2013, Brisbane. Abstract # IG19-D2-PM2-P-007.
- 24]** **Meyer-Dombard, D.R.**, Vallalar, B., Cardace, D., Argayosa, A., Argayosa, V., Arcilla, C. (2013). Microorganisms cultured from serpentinizing and hydrothermal fluids in Philippines springs. AOGS 2013, Brisbane. Abstract # IG19-D2-PM2-P-008.

- 23] Walther, K.M., Oiler, J., **Meyer-Dombard, D.R.** (2012). Small Scale Biodiversity of an Alkaline Hot Spring in Yellowstone National Park. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B51D-0597, American Geophysical Union, Fall Meeting, 2012.
- 22] Woycheese, K.M., Yargicoglu, E.N., Cardace, D., **Meyer-Dombard, D.R.** (2012). From the Belly of the Beast: Biogeochemistry and geomicrobiology of a fluid seep at Chimaera [Yanartas], Turkey. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B43G-0510, American Geophysical Union, Fall Meeting, 2012.
- 21] Havig, J.R., Hamilton, T.L, Boyd, E.S., **Meyer-Dombard, D.R.**, Shock, E. (2012). Geochemical and physical drivers of microbial community structure in hot spring ecosystems. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B51D-0590, American Geophysical Union, Fall Meeting, 2012.
- 20] **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.
- 19] **Meyer-Dombard, D.R.**, Yargicoglu, E.N., Cardace, D., Gulecal, Y., Temel, M. (2012). Biogeochemical Cycling in Fault-Associated and Ophiolite-Hosted Springs. AbSciCon 2012, Atlanta, GA. Abstract # 4494.
- 18] 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.
- 17] **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.
- 16] 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.
- 15] **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>
- 14] **Meyer-Dombard, D.R.**, Cardace, D., Uzunlar, N., Güleçal, Y., Yargıçoğlu, E.N., Carbone, J.N. (2010). Microbial Community Diversity in Fault-Associated and Ophiolite-Hosted Springs. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract B51A-0334, American Geophysical Union, Fall Meeting, 2010.
- 13] 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.
- 12] **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.
- 11] Kepp, J., **Meyer-Dombard, D.R.**, Cardace, D. (2009). Microbial Communities in Serpentinizing and Ultramafic Environments. Dark Energy Biosphere Institute [DEBI] RCN meeting, Mauna Lani, HI.
- 10] **Meyer-Dombard, D.R.**, Raymond, J., Shock, E.L. (2007). Biofilm function and variability in a hydrothermal ecosystem: insights from environmental genomes. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract B11C-0626, American Geophysical Union, Fall Meeting, 2007.

- 9] **Meyer-Dombard, D.R.**, Summons, R.E., Shock, E.L., Raymond, J., Amend, J.P., Havig, J.R., Bradley, A.S. (2006). Silicious Biofilms in Alkaline Geyser Basins of Yellowstone National Park. *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract B14-9826, American Geophysical Union, Fall Meeting, 2006.
- 8] Akerman, N.H., Amend, J.P., **Meyer-Dombard, D.R.**, Osburn, M.R. (2006). Archaeal Communities in an Arsenic-Rich Shallow-Sea Hydrothermal System. *AGU*, 87(52), Fall Meet. Suppl., Abstract B32-12727, American Geophysical Union, Fall Meeting, 2006.
- 7] **Meyer-Dombard, D.R.**, Bradley, A.S., Havig, J.R., Amend, J.P., Shock, E.L., Summons, R.E. (2006). Physiochemical parameters of streamer-forming biofilms communities (SBCs) in terrestrial hydrothermal environments. Fourth Astrobiology Science Conference. March 26-30, 2006. Abstract #422.
- 6] **Meyer-Dombard, D.R.**, Osburn, M.R., Amend, J.P. (2005). Archaeal and Bacterial Variation Across Geochemical Gradients in an Arsenic-Rich, Shallow Submarine Vent, Papua New Guinea. *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract B21A-1015, American Geophysical Union, Fall Meeting, 2005.
- 5] Amend, J.P., **Meyer-Dombard, D.R.**, Pichler, T., Price, R., Herndon, E., Hsia, N. (2005) Microbial Arsenic Oxidation in a Shallow Marine Hydrothermal Vent System. *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract B31A-0955, American Geophysical Union, Fall Meeting, 2005.
- 4] **Meyer-Dombard, D.R.**, Price, R., Pichler, T., Amend, J.P. (2004). Geochemical-microbial Processes in Hydrothermal Sediments, Ambitle Island, Papua New Guinea. Goldschmidt Geochemical Conference. <http://www.goldschmidt2004.dk/>.
- 3] **Meyer, D.R.**, Shock, E.L., Amend, J.P. (2001). Hydrothermal Habitats in Astrobiology. NASA Astrobiology Institute General Meeting. <http://nai.arc.nasa.gov>
- 2] **Meyer, D.R.**, Shock, E.L., Amend, J.P. and Reysenbach, A.-L., (2000). Hydrothermal Ecosystems as Models for Astrobiological Habitats. First Astrobiology Science Conference (AbSciCon). <http://www.astrobiology.com/asc2000/abstract.html?ascid=357>
- 1] **Meyer, D.R.**, Shock, E.L., Amend, J.P. and Reysenbach, A.-L. (2000). Using Geochemistry to Isolate Thermophiles. RIDGE Theoretical Institute. http://ridge.oce.orst.edu/meetings/biosphereRTI/RTI labs/#_Toc486243195