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## Dawn Thorne

### PROFESSIONAL RESEARCH INTERESTS AND EXPERTISE –

- Geochemistry
- Groundwater modeling
- Carbon Sequestration
- Project management

### EDUCATION –

- B.S. in Biology, Kent State University
- M.S. in Geology, Arizona State University

### MEMBERSHIPS –

- Utah Geological Association

### PUBLICATIONS –

- **Ashbridge, D.A.**, Chemical and Physical Analysis of Seafloor Hydrothermal Vent Chimneys, M.S. Thesis, Arizona State University, 2002.
- **Ashbridge, DA**, Thorne, MS, Rivers, ML, Muccino, JC, O’Day, PA, Image optimization and analysis of synchrotron X-ray microtomography (CmT) data, Computers & Geosciences, 29 (7), p 823-836, 2003.

- **Ashbridge, DA**, Cary, SC, Dunn, EE, Holloway, JR, Voglesonger, KM, and O'Day, PA, Three-dimensional visualization and porosity analysis of seafloor hydrothermal chimney microhabitats, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract V72A-1287, 2002.
- **Dunn, EE**, Holloway, JR, Cary, SC, Voglesonger, KM, Ashbridge, DA, and O'Day, PA, A retrievable mineral microcosm for examining microbial colonization and mineral precipitation at seafloor hydrothermal vents, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract V72A-1288, 2002.
- **Ashbridge, DA**, Thorne, MS, O'Day, PA, Synchrotron X-ray microtomography image optimization and structural analysis of geologic materials. ABSTR PAP AM CHEM S 223: 110-GEOC Part 1, APR 7, 2002.
- **Ashbridge, D.A.**, O'Day, P.A., Muccino, J.C., and Holloway, J.R., Analysis of synchrotron X-ray tomography data from the Finn and Roane black smoker chimneys in the Mothra Hydrothermal Vent Field. RIDGE Endeavor Segment Seafloor Observatory Workshop, Seattle, WA., 2001.
- **Ashbridge, DA**, O'Day, PA, Muccino, JC, Correlating mineralogy of black smoker chimneys to synchrotron X-ray tomography images. ABSTR PAP AM CHEM S 221: 175-GEOC Part 1 APR 1, 2001.
- **Ashbridge, DA**, O'Day, PA, Holloway, JR, Muccino, JC, Imaging and geochemistry of black smoker chimneys using three-dimensional synchrotron X-ray computed tomography. General Meeting of the NASA Astrobiology Institute, April 10-12, 2001.
- **Ashbridge, D.A.**, O'Day, P.A., Muccino, J.C., Holloway, J.R., Analysis of synchrotron X-ray tomography data from the Finn and Roane black smoker chimneys in the Mothra Hydrothermal Vent Field. RIDGE Theoretical Institute meeting on the Subsurface Biosphere at Mid-ocean Ridges, July 28 – August 1, 2000.
- **Ashbridge, D.A.**, and Tang, C.M., Correlating population dynamics of different brachiopod species: implications for reconstructing paleobiology and life strategies. *Southwest Paleontological Symposium*, p 11, 2000.