

CURRICULUM VITAE (ABR.)

BRIAN F. GOOTEE

EDUCATION

Master's Degree, Arizona State University, 2002
Bachelor of Science, Arizona State University, 2000
Bachelor of Science, University of Texas at San Antonio, 1995

EXPERTISE

Geologic mapping, geomorphology, geoscience outreach, hydrogeology, sedimentology, structural geology, and leading field trips and backcountry classes.

EMPLOYMENT HISTORY

Research Geologist, Arizona Geological Survey, 2007 to present

- Conduct research on the history and formation of select basins in southern Arizona
- Conduct surficial mapping for the StateMap program

Adjunct Professor, Mesa Community College District (MCC and SCC), 2003 to present

- Taught the following courses and accompanying labs: Environmental Geology, Physical and Historical Geology, Geology of Arizona, Geology of Grand Canyon, Geology of Antarctica, and Astronomy.
- Conducted approximately 50 separate field trips to accompany students and faculty.

Instructor, Grand Canyon Field Institute, 2004 to present

Instructor for education-based, field-based courses in the Grand Canyon National Park and Colorado Plateau region.

Mars Senior Instructor Specialist, Arizona State University, Mars Space Flight Facility, 2005-2007

- Lead instructor for K-14 national science teams using Mars Odyssey spacecraft
- Write curriculum designed to train teachers and students in scientific methodology

Subsurface Hydrologist, Clear Creek Associates, Phoenix, Arizona, 2003

- Supervised well exploration, new well installation, remediation, and abandonment of groundwater drilling sites in Arizona.
- Performed field investigation and exploration, data analysis, and phase I and II report writing.

Hydrologic Technician, Hydrosystems, Inc., Tempe, Arizona, 1999 to 2000

- Completed phase I reports for selected Arizona and Nevada clientele for water resource drilling programs and groundwater recharge evaluations, including aquifer recharge and recovery systems.

Subsurface Hydrologist, Dames & Moore, Phoenix, Arizona, 1995 to 1999

- Supervised several projects related to several major mining and environmental clientele throughout Arizona. Supervised multiple exploration and production well installations using mud and air rotary, and reverse circulation drilling techniques as part of water resource investigation and APP projects. Multiple small and large scale, and short and long term aquifer testing also conducted.
- Also supervised, prepared and conducted two major geologic and hydrogeologic studies to understand subsurface hydrogeologic control within a 23 square mile study area.

Hydrologic Technician, Barrick Goldstrike Mines, Inc., Nevada, 1998

Supervised the construction, installation, maintenance and monitoring of remote well-site telemetry stations over a 900 square mile area related to open-pit mine de-watering.

Geologist/Hydrologic Technician, U.S. Geological Survey, Water Resources Division, San Antonio, Texas, 1992 to 1995

Collected compiled and evaluate hydrologic data. Collected and evaluated surface water and groundwater data to support major USGS projects in south-central Texas. Included the construction of remote telemetry hydro-samplers as part of the NPDES national program.

CERTIFICATIONS

- State of Arizona, Registered Professional Geologist, Certification No. 40161

- 90-hour Wilderness First Responder (current)
- 40-hour Hazardous Waste Site Health and Safety Training (expired)
- 24-hour Mine Safety and Operations Training (expired)

SELECTED PUBLICATIONS & ABSTRACTS

- Diaz, M., Gootee, B.F., and Youberg, A., OFR 08-XX, Reconnaissance Report on the Easter Weekend Landslide of 21 March 2008, SR-87, Gila County, Arizona (in press).
- Gootee, B.F., 2008, The Marcus Landslide: An ancient landslide in the McDowell Mountains, Arizona, AZGS online publication: http://azgs.az.gov/MarcusLandslide_2008.html.
- Gootee, B.F., et al., 2008, Geologic map of the Mammoth 7 ½' Quadrangle, Pinal County, Arizona: Arizona Geological Survey Digital Geologic Map DGM-67, scale 1:24,000. (in prep)
- Gootee, B.F., 2007, Glacial and permafrost exploration in the Dry Valleys during the 1957/58 IGY: The personal records of Troy L. Péwé: U.S. Geological Survey and The National Academies; USGS OFR-2007-1047, Extended Abstract.217, 1-4.
- Gootee, B.F., Stump, E., 2006, Depositional Model of the Byrd Group, central Transantarctic Mountains: Proceedings of the IX International Symposium on Antarctic Earth Sciences, Potsdam, Germany, 2006.
- Douglass, J., Dorn, R., and **Gootee, B.F.**, 2004, A large landslide on the urban fringe of Metropolitan Phoenix, Arizona, Journal of Geomorphology, 2004.
- Stump, E., **Gootee, B.F.**, Talarico, F., Van Schmus W.R., Brand, P.K., Foland, K.A., Fanning, C.M., 2003, Correlation of Byrd and Selborne Groups, with implications for the Byrd Glacier discontinuity, central Transantarctic Mountains, Antarctica, New Zealand Journal of Geology and Geophysics, 2003.
- Young, Jeri J., Arrowsmith, J.R., Colini, Laura, Grant, Lisa B., and **Gootee, B.F.**, 2002 in press, 3-D Excavation and Recent Rupture History along the Cholame Segment of the San Andreas Fault, Bulletin of Seismological Society of America.
- Gootee, B.F., 2001, Stratigraphy of the Cambrian Byrd Group, Antarctica, A tectonically-Activated Carbonate to Clastic Transition, Abstracts in Geological Society of America 2001 Annual Meeting Program and in Arizona State University 2002 Life and Earth Science Graduate Research Symposium.
- Gootee, B.F., and Stump, E., 2001, Stratigraphy of the Cambrian Byrd Group, Antarctica, a tectonically-activated carbonate to clastic transition: Abstracts with Programs, Geological Society of America, v. 33, no. 6, p. 76.
- Stump, E., **Gootee, B.F.**, and Talarico, F., 2001, Byrd Glacier discontinuity; a major tectonic feature orthogonal to the paleo-Pacific margin of Gondwanaland, Abstracts with Programs, Geological Society of America, v. 33, no. 6, p. 206-207.
- Gootee, B.F., 1994, Chairman and author of selected articles in Geology of the Lower Cretaceous and Associated Deposits of Central Texas, Southwest Association of Student Geological Societies, Library of Congress, 155p.