

Gene W. Schmidt

M.Sc. in Earth Science
Focus in Martian Geology

IRSPS Ph.D student,

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Born on March 23, 1988
in Las Vegas, Nevada

Summary

Geologist participating in planetary research with an international team of scientists in an effort to utilize my past field experience with my interest of Mars.

Research Interests

- Planetary remote sensing
- Field mapping and structural analysis
- Petrology
- Drilling and coring
- GIS techniques
- Solar system formation
- Space mining

Education

- **Master's in Earth Science**, Brock University, St. Catharines, ON, Canada, 2015
Thesis: "The Geology of Hebes Chasma" (publication in progress)
Committee: F. Fueten, M. Schmidt, R. Stesky, R. Cheel
Course work: Planetary Science at Western Ontario University, London, ON, Canada, 2014
- **Bachelor's in Geology**, Western Michigan University, Kalamazoo, MI, 2011
Field course at University of Michigan, field station in Jackson Hole, WY, 2011

Employment

- **Well Site Geologist**, Sunburst Consulting, Montana/North Dakota/Wyoming, September 2012 - August 2013.
Duties: Geo-steering (horizontal drilling), gas monitoring and mud logging within the Williston and Bighorn Basins.
- **Roaster's Apprentice**, Water Street Coffee Roaster, Kalamazoo, Michigan, September 2011 – June 2012
Duties: Coffee roasting, packaging and delivering.

Teaching Experience

- **Assistantships:**
 - Field Course (Whitefish Falls, ON, 2015)
 - Advanced Structural (2014, 2015)
 - Planet Earth (2014, 2015)
 - Geology and the Environment (2014)
 - Structural Geology (2013, 2014)
 - Earth Science Methods (2013, 2014)
- **Study Aid**, after school math tutor at Kalamazoo Central High School, Kalamazoo, MI (2003-2005)
- **Basketball Team Manager**, Reach & Teach High School, Galesburg, MI (2005)

Field Work

- *July – Aug. 2013*, Mapping of the Jefferson River Valley within Lewis and Clark Caverns State Park, MT. Supervisor: C. Schmidt, WMU
- *Aug. 2011*, Gravity survey of the Boulder Batholith, MT. Supervisor: C. Schmidt, WMU
- *July – Aug. 2010*, Mapping of the London Hills section of the Jefferson River Valley, MT. Supervisor: C. Schmidt, WMU

Scientific Communications

- Schmidt G., F. Fueten, J. Flahaut, E. Hauber and R. Stesky (2015): Evidence for an unconformity within the Interior Layered Deposits of Hebes Chasma, Valles Marineris, Mars. 46th Lunar and Planetary Science Conference, Houston, TX.
- Schmidt G., F. Fueten and R. Stesky (2014): Structural Analysis of a Monocline within Hebes Chasma, Valles Marineris, Mars. Canadian Tectonic Group Conference, Sudbury, ON.
- Timmons S., G. Schmidt, F. Fueten, J. Flahaut and E. Hauber (2014): Layered Attitude and Thickness Measurements of the Interior Layered Deposits within Hebes Chasma, Valles Marineris, Mars. 45th Lunar and Planetary Science Conference, Houston, TX.
- Schmidt G., F. Fueten, J. Flahaut, E. Hauber and R. Stesky (2014): Structure and Geometry of the Interior Layered Deposits within Hebes Chasma, Valles Marineris, Mars. 45th Lunar and Planetary Science Conference, Houston, TX.

Invited Talks and Seminars

- Schmidt, G. et al. (April 2016): ‘Geology of Hebes Chasma, Mars’. Invited talk, Montana Tech of the University of Montana, Butte, MT, United States.
- Schmidt, G. et al. (November 2015): ‘Geology of Hebes Chasma, Mars’. Invited seminar, Western Michigan University, Kalamazoo, MI, United States.
- Schmidt, G. et al. (October 2015): ‘Geology of Hebes Chasma, Mars’. Invited talk, Vrije University, Amsterdam, The Netherlands.

Skills and Interests

- Languages: English (native) and German (basic).
- Computer skills: Globbal Mapper, Orion, ArcGIS, JMARS and basic programming
- Musical instruments: viola, double bass, piano, guitar and drums
- Amateur rocketry
- Telescope building
- Boy Scouts