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Brian Charles Hahn

Department of Geosciences, State University of New York at Stony Brook
Stony Brook, NY 11790-2100

Tel: (631) 632-1936

Fax: (631) 632-8240

E-mail: bhahn@mantle.geo.sunysb.edu

Webpage: <http://www.ic.sunysb.edu/project/mersb/bios.htm#hahn>

EDUCATION

- 2004 – Present** **Doctoral Program** – State University of New York at Stony Brook
Advisor: Dr. Scott M. McLennan (*in progress*)
- 2005** **M.S. in Geosciences** – State University of New York at Stony Brook
Thesis: *Long-term Tectonic Reduction in Continental Area: New Constraints from Space-Based Geodesy (May 2005)*
Advisor: Dr. William E. Holt
- 1996** **B.S. in Physics & Astronomy** – University of Rochester, NY

ACADEMIC EMPLOYMENT

- 2002 – Present** **Research Assistant** – State University of New York at Stony Brook
- 2001 – 2002** **Teaching Assistant** – State University of New York at Stony Brook
- 1999** **Laboratory Assistant** – Lamont-Doherty Earth Observatory

PROFESSIONAL ACTIVITIES

- 2004 – Present** **Student Collaborator** – Mars Exploration Rover Mission
NASA- Jet Propulsion Laboratory, Pasadena, CA
Department of Geosciences, State University of New York at Stony Brook
Responsibilities Include:
- Science Operations Working Group (SOWG) Chairperson
 - Science Operations Working Group Documentarian
 - Long-term Planning Group Lead
 - Soil and Rock Physical Properties Group Lead
 - Mineralogy and Chemistry Group Lead
 - Geology Group Lead
- 2004 – Present** **Student Collaborator** – 2001 Mars Odyssey Mission
NASA- Jet Propulsion Laboratory, Pasadena, CA
Department of Geosciences, State University of New York at Stony Brook
- 2002 – 2004** **GPS and Atmospheric Science Station Manager** – UNAVCO
The University Corporation for Atmospheric Research, Boulder, CO
Department of Geosciences, State University of New York at Stony Brook

GRANTS, FELLOWSHIPS & AWARDS

- 2005** **NASA Group Achievement Award** – Mars Exploration Rover Science Team: Second Extended Mission Team
- 2005** **Selection for Attendance of NASA Planetary Science Summer School** – Pasadena, CA
- 2005** **NASA/JPL Student Travel Grant** – NASA Planetary Science Summer School, Pasadena, CA
- 2005** **Mars Exploration Program Student Travel Grant** – NASA/ESA Planet Mars II Workshop, Les Houches, France
- 2004** **NASA Group Achievement Award** – Mars Exploration Rover Science Team: First Extended Mission Team
- 2004** **Invited Author** – *Long-Term Reduction in Continental Area Inferred from Space-Based Geodesy*, 2004 International Basement Tectonic Association, Oakridge, TN
- 2004** **Student Travel Grant** – 2004 International Basement Tectonic Association, Oakridge, TN
- 2003** **GAANN Fellowship** – Department of Education, Washington, D.C.
- 2002** **Excellence in Teaching Award** – Department of Geosciences, State University of New York at Stony Brook
- 2002** **GAANN Fellowship** – Department of Education, Washington, D.C.
- 2001** **GAANN Fellowship** – Department of Education, Washington, D.C.

EDUCATIONAL OUTREACH & TEACHING

- Spring 2002** **Laboratory Instructor in Geosciences**
Dr. William E. Holt – *GEO 309: Structural Geology*
- Fall 2001** **Teaching Assistant in Geosciences**
Dr. Donald J. Weidner – *GEO 107: Natural Hazards*

RESEARCH INTERESTS

- Mars Crust/Mantle Evolution and Chemical Composition; Gamma-Ray Spectrometer (GRS) & Thermal Emissions Spectrometer (TES)
- Planetary Geochemistry
- Continental Crust Evolution and Tectonics; worldwide strain rates and areal change inferred from Global Position System (GPS)

PROFESSIONAL ORGANIZATIONS

American Geophysical Union
Geological Society of America
The Meteoritical Society
Mineralogical Society of America

REFEREED JOINTLY AUTHORED PUBLICATIONS

- [1] **B.C. Hahn**, C. Kreemer, W.E. Holt, P.G. Silver, A.J. Haines (2005) New constraints from space-based geodesy for tectonic reduction of continental area, *Nature* (submitted).
- [2] A.S. Yen, R. Gellert, C. Schröder, J.F. Bell III, A.T. Knudson, R.V. Morris, B.C. Clark, D.W. Ming, R.E. Arvidson, D. Blaney, J. Brückner, P.R. Christensen, J.A. Crisp, D.J. DesMarais, P.A. de Souza Jr., T.E. Economou, A. Ghosh, **B.C. Hahn**, K.E. Herkenhoff, L.A. Haskin, J.A. Hurowitz, B.L. Joliff, J.R. Johnson, G. Klingelhöfer, M.B. Madsen, S.M. McLennan, H.Y. McSween, L. Richter, R. Rieder, D. Rodionov, L. Soderblom, S.W. Squyres, N.J. Tosca, A. Wang, M. Wyatt, J. Zipfel (2004) An Integrated View of the Chemistry and Mineralogy of Martian Soils, *Nature*, 436, 49-54.
- [3] R.E. Arvidson, S.W. Squyres, R.C. Anderson, J.F. Bell, J. Brückner, N.A. Cabrol, W.M. Calvin, M. Carr, P.R. Christensen, B.C. Clark, L.S. Crumpler, D.J. Des Marais, C. d'Uston, T. Economou, J.D. Farmer, W.H. Farrand, W.M. Folkner, M. Golombek, S. Gorevan, J. Grant, R. Greeley, J. Grotzinger, E. Guinness, **B.C. Hahn**, L.A. Haskin, K.E. Herkenhoff, J.A. Hurowitz, S. Hviid, J.R. Johnson, G. Klingelhöfer, A. Knoll, G. Landis, C. Leff, M. Lemmon, R. Li, M. Madsen, M.C. Malin, S.M. McLennan, H.Y. McSween, D. Ming, J. Moersch, R.V. Morris, T.J. Parker, J. Rice, L. Richter, R. Rieder, D. Rodionov, C. Schröder, M. Sims, M. Smith, P. Smith, L.A. Soderblom, R. Sullivan, S. Thompson, N.J. Tosca, A. Wang, H. Wänke, J. Ward, T. Wdowiak, M. Wolff, A.S. Yen (2005) Overview of the Spirit Mars Exploration Rover Mission to Gusev Crater: Landing Site to the Methuselah Outcrop in the Columbia Hills, *Journal of Geophysical Research – Planets* (accepted).
- [4] L.S. Crumpler, S.W. Squyres, R.E. Arvidson, J.F. Bell III, D. Blaney, N. Cabrol, P. Christiansen, D. DesMarais, J. Farmer, R. Furgenson, M. Golombek, J.F. Grant, J. Grant, R. Greeley, **B.C. Hahn**, K. Herkenhoff, J. Hurowitz, A. Knudson, R. Li, J. Maki, H. McSween, D. Ming, J. Moersch, J. Rice, L. Richter, M. Sims, S. Thompson, N. Tosca, A. Wang, P. Whelley, M. Wyatt (2004) MER geologic traverse science by the Spirit Rover in the Gusev plains, Mars, *Geology* (accepted).
- [5] J.A. Grant, R. Arvidson, L.S. Crumpler, M.P. Golombek, **B.C. Hahn**, A.F.C. Haldemann, R. Li, L.A. Soderblom, S.W. Squyres, S.P. Wright, W.A. Watters (2005) Crater Gradation in Gusev Crater and Meridiani Planum, Mars, *JGR – Planets* (accepted).
- [6] S.K. Karunatillake, S.W. Squyres, G.J. Taylor, J. Keller, O. Gasnault, L.G. Evans, R.C. Reedy, R. Starr, W. Boynton, **B.C. Hahn**, D.M. Janes, K.E. Kerry, J.M. Dohm, A.L. Sprague, D. Hamara (2005) Mineralogy of Low Albedo Regions in the Northern Hemisphere of Mars: Implications of Mars Odyssey Gamma Ray Spectrometer Data, *JGR-Planets* (submitted).
- [7] J.M. Keller, W.V. Boynton, V.R. Baker, J.M. Dohm, L.G. Evans, **B.C. Hahn**, D. Hamara, D. Janes, S. Karunatillake, K. Kerry, R.C. Reedy, S.W. Squyres, R.D. Starr, J. Taylor and the GRS Team (2005) Global Distribution of Chlorine Measured by Mars GRS, *JGR – Planets* (submitted).

- [8] S.M. McLennan, J.F. Bell III, W.M. Calvin, B.C. Clark, W.H. Farrand, D. Fike, J.P. Grotzinger, **B.C. Hahn**, K.E. Herkenhoff, J.A. Hurowitz, S.S. Johnson, B. Jolliff, A.H. Knoll, Z. Learner, H.Y. McSween Jr., S.W. Ruff, S.W. Squyres, N.J. Tosca, W. Watters, A. Yen (2004) Provenance and diagenesis of sedimentary rocks in the vicinity of the *Opportunity* Landing Site, Meridiani Planum, Mars, *Earth and Planetary Science Letters* (accepted).
- [9] J. Zipfel, C. Schröder, B. Jolliff, R. Anderson, J.F. Bell III, J. Brückner, J. Crisp, P.R. Christensen, B.C. Clark, P.A. de Souza Jr., G. Dreibus, C. d'Uston, T. Economou, R. Gellert, S.P. Gorevan, **B.C. Hahn**, K.E. Herkenhoff, G. Klingelhöfer, G. Lugmair, H.Y. McSween Jr., D. Ming, R.V. Morris, R. Rieder, D. Rodionov, S. Squyres, H. Wänke, M. Wyatt, A. Yen (2004) Bounce Rock at Meridiani Planum – a rock similar to Martian Meteorites, *MAPS* (submitted).

CONFERENCE AND WORKSHOP ABSTRACTS

- [1] P.G. Silver, **B.C. Hahn**, C. Kreemer, W.E. Holt, A.J. Haines (2005), Tectonic Reduction of Continental Area: Implications for Continental Evolution, Geological Society of America, Annual Meeting, Abstract #252-7.
- [2] S.M. McLennan, B.C. Hahn, W.V. Boynton, G.J. Taylor (2005), Odyssey GRS and SNC meteorite evidence for multiple LIL-enriched reservoirs on Mars, 68th Meteoritical Society Mtg., Abstract #5251.
- [3] **B.C. Hahn**, S.M. McLennan, G.J. Taylor, W.V. Boynton (2005), Integrating Global-Scale Mission Datasets – Understanding the Martian Crust, LPS XXXVI, Abstract #1853.
- [4] S.M. McLennan, J.F. Bell, W.M. Calvin, P.R. Christensen, B.C. Clark, P.A. de Souza, W.H. Farrand, D. Fike, R. Gellert, A. Ghosh, T.D. Glotch, J.P. Grotzinger, **B.C. Hahn**, K.E. Herkenhoff, J.A. Hurowitz, J.R. Johnson, S.S. Johnson, B. Jolliff, G. Klingelhoefer, A.H. Knoll, Z. Learner, M.C. Malin, H.Y. McSween, J. Pockock, S.W. Ruff, S.W. Squyres, N.J. Tosca, W. Watters, M.B. Wyatt, A. Yen, and the Athena Science Team (2005), Provenance and diagenesis of impure evaporitic sedimentary rocks on Meridiani Planum, Mars, LPS XXXVI, Abstract #1884.
- [5] **B.C. Hahn**, C. Kreemer, W.E. Holt, P.G. Silver, A.J. Haines (2004), Building on Current Space-Based Geodesy to Infer Long-Term Tectonic Reduction in Continental Area, EOS Trans. AGU, 85(47), Fall Meet. Suppl., Abstract G41A-08.
- [6] **B.C. Hahn**, C. Kreemer, W.E. Holt, P.G. Silver, A.J. Haines (2004), Long-Term Tectonic Reduction in Continental Area Inferred from Space-Based Geodesy, 2004 International Basement Tectonics Association Conference Abstract.

- [7] **B.C. Hahn**, C. Kreemer, W.E. Holt, P.G. Silver, A.J. Haines (2004), Long-Term Tectonic Reduction in Continental Area Inferred from Space-Based Geodesy, LPS XXXV, Abstract #1874.
- [8] **B.C. Hahn**, C. Kreemer, W.E. Holt, P.G. Silver, A.J. Haines (2004), Changes in Continental Area Inferred from Space Geodesy, UNAVCO, Inc. 2004 Annual Meeting Abstract.
- [9] **B.C. Hahn**, C. Kreemer, W.E. Holt, P.G. Silver, A.J. Haines (2003), Changes in Continental Area Inferred from Space Geodesy, EOS Trans. AGU, 84(46), Fall Meet. Suppl., Abstract T52A-0234.
- [10] **B.C. Hahn**, W.E. Holt, P.G. Silver, C. Kreemer (2002), Changes in Continental Area Inferred from Space Geodesy, EOS Trans. AGU, 83(47), Fall Meet. Suppl., Abstract T61A-1250.
- [11] W.E. Holt, **B.C. Hahn**, P.G. Silver, C. Kreemer (2002), Lithosphere-Mantle Coupling Inferred From Mantle Seismic Anisotropy Measurements and Surface Deformation Rates, EOS Trans. AGU, 83(47), Fall Meet. Suppl., Abstract T11D-1286.
- [12] M. Stephenson, P.G. Silver, W.E. Holt, **B.C. Hahn**, C. Wang, W. Chan (2002), Analysis of Mantle Flow Beneath the India-Eurasia Collision Zone Using Seismic Anisotropy and Surface Deformation Measurements, EOS Trans. AGU, 83(47), Fall Meet. Suppl., Abstract T12F-11.