

ICL-QUESTIONNAIRE

NAME: Bernhardt Saini-Eidukat

GRANT PERIOD: Jan 15 – May 15, 2007

PRESENT POSITION US: Associate Professor and Chair

BORN: USA

LANGUAGES: English, German, some French

GERMAN HOST INSTITUTION

Prof. Dr. François Holtz
Institut für Mineralogie Universität Hannover
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And

Dr. Frank Melcher
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Stilleweg 2
D-30655 Hannover
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ACADEMIC DISCIPLINE

Geology

AREAS OF RESEARCH

Geology of Mineral Deposits. While at Hannover, I will be researching the origin of a Germanium deposit in northern Mexico. I also work on Igneous Petrology, Geochemistry, Teaching of Geology.

POSSIBLE LECTURE TOPICS

Tectonomagmatic Constraints on Gondwana Geologic History from the Somoncura Magmatic Belt, Argentina

Can Active Learning of Geologic Concepts Be Promoted Using Role-Playing Software?

Platinum Group Element (PGE) Geochemistry of Igneous Rocks in the Duluth Complex, Minnesota and Northern Finland – Russia

Precambrian Geology of the Upper Midwest, USA

ACADEMIC TRAINING AND DEGREES

1991: Ph.D. Geology, University of Minnesota
1984: B.S. Geology, University of Minnesota
1984: B.S. Geophysics, University of Minnesota

PREVIOUS POSITIONS

Assistant Professor, North Dakota State University, 1993-2003
Post-Doctoral Researcher, Mining University of Leoben, Austria, 1991 -1993
Geologist, U.S. Bureau of Mines, Twin Cities Research Center, Minneapolis, MN, USA 1989–1990

PUBLICATIONS (selected)

- Saini-Eidukat, B., Gregori, D., Bjerg, E., Migueles, N., Beard, B., Johnson, C., Vervoort, J. and Gehrels, G.E. (in review) Rb-Sr and U-Pb age systematics of the Alessandrini Silicic Complex and related rocks, El Cuy region, northern Patagonia, Argentina. *Journal of South American Earth Sciences*.
- Gregori, D.A., Saini-Eidukat, B., Migueles, N., and Strazzere, L. (in review) The Pangaré and La Seña Mylonitic Belts: Evidence of transcurrence in the North Patagonian Massif, Argentina and constraints to the Patagonia Allochthony. *Bulletin of the Geological Society of America*.
- Saini-Eidukat, B. and Michlovic, M.G. (in press) Material analysis of lithic flaking debris from 32RI775. *Plains Anthropologist*.
- Brandt, L., Borchert, O., Addicott, K., Cosmano, B., Hawley, J., Hokanson, G., Reetz, D., Saini-Eidukat, B., Schwert, D.P., Slator, B.M., and Tomac, S. (2006) Roles, Culture, and Computer Supported Collaborative Work on Planet Oit. *Journal of Advanced Learning Technology*, vol. 3, no. 2, paper 208-0875.
- Lin, W., Saini-Eidukat, B., and Super, J. (2006) Upper Souris River Total Maximum Daily Load (TMDL): Report on Analysis of Existing Data. Submitted to: North Dakota Department of Health Division of Water Quality. 59 pp.
- Daniels, L.M., Terpstra, J., Addicott, K., Slator, B.M., Schwert, D.P., Saini-Eidukat, B., McClean, P., and White, A.R. (2006) Effects of Teaching Science through Immersive Virtual Environments. In: Zongmin Ma, ed., *Web-Based Intelligent e-Learning Systems: Technologies and Applications*, Idea Group, Inc., Hershey, PA., p. 271-290.
- Slator, B.M., R. Beckwith, L. Brandt, H. Chaput, J. T. Clark, L. M. Daniels, C. Hill, P. McClean, J. Opgrande, B. Saini-Eidukat, D. P. Schwert, B. Vender, A. R. White, 2006, *Electric Worlds in the Classroom: Teaching and Learning with Role-Based Computer Games*. New York: Teacher's College Press. 192 pp.
- Saini-Eidukat, B., Schwert, D.P., Slator, B.M. (2002) *Geology Explorer: Virtual Geologic Mapping and Interpretation*. *Computers & Geosciences* v. 28, no. 10, pp. 1167-1176.
- McClean, P., Saini-Eidukat, B., Schwert, D.P., Slator, B.M., White, A.R. (2001) Virtual Worlds in Large Enrollment Science Classes Significantly Improve Authentic Learning. In, Jack A. Chambers, ed., *Selected Papers from the 12th International Conference on College Teaching and Learning*, Jacksonville, FL, April 2001, pp. 111-118.
- Saini-Eidukat, B., Schwert, D.P., Slator, B.M. (2002) *Geology Explorer: Virtual Geologic Mapping and Interpretation*. *Computers & Geosciences* v. 28, no. 10, pp. 1167-1176.
- Slator, B.M., Juell, P., McClean, P.E., Saini-Eidukat, B., Schwert, D.P., White, A.R., and Hill, C. (1999) Virtual environments for education: *Journal of Network and Computer Applications*, v. 22, pp. 161-174.
- Saini-Eidukat, B., Bjerg, E., Gregori, D., Beard, B.L. and Johnson, Clark M. (1999) Jurassic Granites in the northern portion of the Somoncurá Massif, Rio Negro Province, Argentina. *Proc. XIV Argentine Geological Congress*, Salta, Sept. 19 – 24, 1999, v. 2, pp. 175-177.
- Saini-Eidukat, B. and Yahin, A. (1999) Web-phreeq: A WWW instructional tool for modeling the distribution of chemical species in water. *Computers & Geosciences* , v. 25, no.4, pp. 347-353.
- Saini-Eidukat, B., Rudashevsky, N.S. and Polozov, A.G. (1998) Evidence for hibbingite-kempite solid solution. *Mineralogical Magazine*, v. 62(2), pp. 251-255.
- Saini-Eidukat, B. (1998) A WWW and spreadsheet based exercise in river flood frequency analysis. *Journal of Geoscience Education*, v. 46, pp. 154-156.

- Saini-Eidukat, B., Thalhammer, O.A.R., Iljina, M.J. and Alapieti, T.T. (1997) Siliceous, high-magnesian parental magma compositions of the PGE-rich Early Paleoproterozoic layered intrusion belt of northern Finland. Proceedings, 30th International Geological Congress, v. 9, pp. 177-197.
- Saini-Eidukat, B., and Weiblen, P.W. (1996) A new method of fossil preparation, using high-voltage electric pulses. Curator, v. 39, pp. 139-144.
- Melcher, F., Raith, J., Prochaska, W., and Saini-Eidukat, B. (1996) The metamorphosed molybdenum-vein type deposit of the Alpeinerscharte, Tyrol (Austria) and its relation to Variscan granitoids. Mineralium Deposita, v. 31, pp. 277-289.
- Rudashevsky, N.S., Burakov, B.E., Lupal, S.D., Thalhammer, O.A.R., and Saini-Eidukat, B. (1995) Liberation of accessory minerals from various rock types by electric pulse disintegration – method and applications: Transactions, Institution of Mining Metallurgy, v. 104, pp. C25-C29.
- Saini-Eidukat, B., Kucha, H., and Keppler, H. (1994) Hibbingite, $\square\text{Fe}_2\text{Cl}(\text{OH})_3$ a new mineral from the Duluth Complex, Minnesota with implications for oxidation of iron-bearing compounds and transport of metals, American Mineralogist, v. 79, pp. 555-561.
