

Mark A. Helper

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PROFESSIONAL PREPARATION:

University of Illinois	Geology	B.S,	1978
University of Oregon	Geology		1979
University of Texas at Austin	Geological Sciences	Ph.D.,	1985

PROFESSIONAL EXPERIENCE

Senior Lecture, University of Texas at Austin	2000 - present
Lecturer, University of Texas at Austin	1985 - 2000

SELECTED RELEVANT PUBLICATIONS

- Schmid, D. and Helper, M.A., 2005, Geological mapping with a tablet PC; Lessons from the Llano Uplift, central Texas (abst.), Geological Society of America Abstracts with Programs, v. 37, no. 3.
- Helper, M. A., 2000, Geology of the eastern Llano uplift: *in* Kyle, J. R. (ed.), Geology and Historical Mining, Llano Uplift Region, Central Texas, Austin Geological Society Guidebook 20, p. 33-47.
- Roback, R. C., Hunt, B. B., and Helper, M. A., 1999, Mesoproterozoic tectonic evolution of the western Llano uplift, central Texas: the story in an outcrop: Rocky Mountain Geology, v. 34, p. 275-287.
- Helper, M. A., 1995, Valley Spring Gneiss at Spring Creek, Inks Lake State Park, in Mosher, S., ed., Guide to the Precambrian geology of the southeastern Llano Uplift, Fieldtrip guide for the 12th International Basement Conference, Norman, Oklahoma, p.17-19.

ADDITIONAL PUBLICATIONS

- Gose, W. A., Helper, M. A., Connelly, J. N., Hutson, F. E., and Dalziel, I. W. D., 1997, Paleomagnetic data and U-Pb isotopic age determinations from Coats Land, Antarctica: Implications for late Proterozoic plate reconstructions: Journal of Geophysical Research, v. 102, no. B4, p. 7887-7902.
- Bauer, P. W., Helper, M. A., 1994, Geologic Map of Trampas quadrangle, Picuris Mountains, Taos and Rio Arriba Counties, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Geologic Map 71, Scale 1:24,000.
- Helper, M. A., 1986, Deformation and high P/T metamorphism in the central part of the Condrey Mountain window, north-central Klamath Mountains, California and Oregon, *in* Evans, B. W., and Brown, E. H., eds., Blueschists and Eclogites: Geological Society of America Memoir 164, p. 125-142.
- Coleman, R. G., Helper, M. A., and Donato, M. M., 1983, Geologic Map of the Condrey Mountain Roadless Area, Siskiyou County, California: U.S. Geological Survey Miscellaneous Field Study Map MF-1540-A, Scale 1:50,000.

RELEVANT AWARDS

Knebel Teaching Award, 2005, 1995; Phi Beta Kappa (UT Chapter) Outstanding Teacher of the Year, 2004; College of Natural Sciences Teaching Excellence Award, 2002; Houston Oil & Minerals Corp. Faculty Excellence Award, 2003; American Federation of Mineralogical Societies Honorary Scholarship Award, 1996.

SYNERGISTIC ACTIVITIES

Recent research advances: 1) Field and isotopic characterization of Proterozoic crystalline rocks of the East Antarctic Craton; 2) Paleomagnetic studies of Proterozoic granites and rhyolites in Antarctica and Texas; 3) Field geology of Ag-Pb-Zn deposits in SW Montana; 4) Application of GPS and GIS technologies to geologic and hydrologic field studies.

New courses developed with substantial web components: GIS/GPS Applications in Earth Sciences (2001), Gems and Gem Minerals (1998), Introduction to Field and Stratigraphic Methods (1998).

Outreach activities to K-12 public schools: 1) preparation and presentation of teaching materials in gems and gem minerals through UT outreach program; 2) mentoring of K-12 graduate student interns; 3) supply of rock and mineral specimens to local area science teachers; 4) tutoring of Science Olympiad teachers and students; 5) preparation of field trip specimens and guidebook for local area earth science teachers.

COLLABORATORS AND OTHER AFFILIATIONS

Collaborators and co-authors (last four years): C. Barnes, (Texas Tech), E. Collins (Univ. Texas), J. Connelly (Univ. Texas), I. Dalziel (Univ. Texas), W. Gose (Univ. Texas), A. Snoke, (Univ. Wyoming).

Graduate and Postdoctoral Advisors. J. Maxell, Univ. Texas; W.D. Carlson, Univ. Texas; F. McDowell, Univ. Texas; F.W. Taylor, Univ. Texas; R.G. Coleman, Stanford.

Thesis Advisor and Research Associate Sponsor

I do not supervise graduate student theses.