

Marc S. Hendrix
Professor of Geology

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GEOLOGICAL EMPLOYMENT

- 2004 – present Professor, Department of Geology, University of Montana
- 1998- 2004 Associate Professor, Department of Geology, University of Montana.
- 1994 - 1998 Assistant Professor, Department of Geology, University of Montana.
- 1994 - 1995 Visiting Assistant Professor, Stanford University.
- 1992-1994 Post-doctoral Research Associate, Stanford University: Nonmarine record of sedimentation and interpretation of paleoclimate and tectonics in Mesozoic sedimentary basins, Mongolia.
- 1990-1992 Research Assistant: Sedimentary basin analysis and organic geochemistry of Mesozoic strata of the Junggar, Tarim, and Turpan basins, northwest China.
- 1991 Summer Professional Geologist, Arco Alaska, Inc., Anchorage, AK. Integrated over 40 years worth of surface outcrop and subsurface well data of Cretaceous strata within the central North Slope in preparation for three upcoming lease sales.
- 1989 Summer Professional Geologist, BP-America, Houston, TX. Evaluated controls on porosity, permeability, and production within Lower Permian Council Grove Group shallow gas plays, Oklahoma Panhandle.
- 1987 Summer Professional Geoscientist, Arco Oil and Gas Co., Midland, TX. Conducted regional subsurface mapping study of Pennsylvanian-Permian Minnelusa Formation within the Powder River Basin, Wyoming.

EDUCATION

- 1987-1992 **Ph.D.**, Applied Earth Sciences, Stanford University; Ph.D. Thesis: Sedimentary basin analysis and petroleum potential of Mesozoic strata, northwest China;

Thesis Advisors: Dr. Stephan A. Graham (Stanford), Dr. Simon C. Brassell (Indiana University)

1985-1987 **M.S.**, Dept. of Geology and Geophysics, University of Wisconsin-Madison M.S. Thesis: Stratigraphy and sedimentology of Permian phosphatic strata, Uinta Mountains, Utah; Thesis Advisor: Dr. Charles W. Byers

1981-1985 **B.A.** with Summa Cum Laude Honors, Dept. of Geology, Wittenberg University; Major in geology, minor in music; Overall G.P.A. = 3.92; Geology G.P.A. = 4.00; Senior Independent Project: Heavy mineral assemblages in modern fluvial sands of the Rogue River, Oregon; Senior Project and Undergraduate Advisor: Dr. Tom A. Gerrard

1984 Geologic Field Mapping, Indiana University Geologic Field Station, SW Montana

TEACHING EXPERIENCE

1994 - present yearly Physical Geology (G100), University of Montana. Responsible for instruction to 150-225 students, 13-16 laboratory sections and 6-7 teaching assistants.

1994-present yearly Geology Summer Field Course (G429), University of Montana. Geologic mapping using aerial photos and topographic base maps. Field interpretation in a variety of rock types and structures.

1995-present yearly Architecture and composition of sedimentary deposits (G432); University of Montana; Course explores sedimentary depositional environments and the role of sedimentary architecture on fluid flow. Course also serves as an introduction to the composition of sedimentary deposits in various plate tectonic settings and the role of sediment composition as an influence on petroleum and groundwater systems.

1995 - present yearly Sedimentary basin analysis (G528); University of Montana; Class focuses on the influence of allocyclic processes (tectonism, climate, eustacy, etc.) on the evolution of sedimentary basins. Specific emphasis is placed on the integration and synthesis of the tools of sedimentary basins analysis, including the study of depositional systems, provenance, paleocurrents, subsidence, sequence stratigraphy, and well logs. Modern sedimentary basin models are reviewed, and the record of ancient sedimentary basins are examined in the context of these models.

2001 Sedimentology of lake systems (G595); University of Montana; Class focused on understanding the controls of sedimentation in open and closed lake systems,

with an emphasis on the glacial Lake Missoula system exposed in western Montana

- 1996-present
yearly Field methods and maps (G130); University of Montana; Course is designed to acquaint elementary geology students with the basics of field methods, including rock type identification, recognition of structures and cross-cutting relationships, and basic construction and interpretation of maps.
- 1999 Sedimentary geology field trip to southern Utah (G302); University of Montana; 9-day field trip over the 1999 spring break to investigate Mesozoic sedimentary strata on the northern Colorado Plateau with an emphasis on depositional environmental interpretation.
- 1997 Sedimentary geology field trip to Central California (G495-03); University of Montana; 9-day field trip over the 1997 spring break to investigate Mesozoic and Cenozoic sedimentary geology associated with the transition from convergent to strike-slip tectonic setting.
- 1996 Sedimentary geology field trip to Death Valley (G495-03); University of Montana; 9-day field trip over the 1996 spring break to explore modern and Cenozoic sedimentary systems and the associated tectonic setting of the Death Valley region. Precambrian pre-, syn-, and post-rift sedimentary geology was also examined.
- 1996 Selected topics in sedimentary basin analysis (G583); University of Montana; Graduate level seminar designed to explore research topics of graduate participants and other sedimentary geology faculty.
- 1995 Sedimentary Field Trip to West Texas (G495), University of Montana. Class involved a pre-trip lecture series and a 13 day field trip over Spring Break to the Colorado Plateau, the Van Horn region of West Texas, and Permian Reef Complex of West Texas and south-central New Mexico.
- 1994-1996
yearly Advanced general geology (G501), University of Montana; team-taught class designed to introduce advanced undergraduate and beginning graduate students with areas of faculty research.
- 1993 Graduate Seminar and Field Trip (G254), Stanford University: Geology of the Permian Reef Complex, West Texas and southern New Mexico. Seminar involved a lecture series as well as weekly laboratory exercises in which samples from the study area were examined, described, and interpreted. Field trip attended by 14 students (graduate and undergraduate) and two faculty members.
- 1993 Seminar in Sandstone Petrography and Provenance Analysis (informal), Stanford University: Basic identification of framework grain types and diagenetic components of sandstones of varying compositional complexity and quantitative

calibration of point-count data between all seminar participants to $\pm 5\%$ for lithic-rich sandstones.

UM GRADUATE THESES ADVISED (only principal advisees listed below)

Lorin Amidon, 1997 UM M.S., Geology, Paleoclimate study of Eocene fossil woods and paleosols from the Gallatin petrified forest.

Jonathan King, 1997 UM M.S., Geology, Facies Analysis of the Volcaniclastic Two Medicine Formation, Wolf Creek, Montana

Matt O'Brien, 1997, UM M.S., Stratigraphic analysis of the Albian-Campanian Colorado Group within the Clark Fork Sag near Garrison, Montana.

Derek Sjostrom, 1997, UM M.S., Geology, Lower-Middle Jurassic through Lower Cretaceous sedimentology, stratigraphy, and tectonics of western Mongolia.

Randy Gould, 1998, UM M.S., Geology, A hydrological evaluation of Lower Ninemile Creek, Montana.

Timothy Meckel, 1998, UM M.S., Geology, Assessing sedimentary architecture using ground-penetrating radar: Cretaceous (Albian) Bootlegger Member, Blackleaf Formation, central Montana.

Amy Waddell, 1998, UM M.S., Geology, Cordilleran partitioning and foreland evolution as recorded by the sedimentation and stratigraphy of the Upper Cretaceous Carten Creek and Golden Spike formations, central-western Montana.

Mary Beck, 1999, UM MS., Geology, Sedimentologic and tectonic characterization of Mesozoic strata, Noyon Uul syncline, southern Mongolia.

Eric Roberts, 1999, UM M.S., Geology, Sedimentology, taphonomy, and alluvial sequence stratigraphy of the Lower Two Medicine Formation (Campanian) near Choteau, Montana.

Josh Borrell, 2000, UM M.S., Geology, Sedimentary record of Upper Cretaceous-Tertiary tectonism, northeastern Crazy Mountains Basin, central Montana.

Carla Brock, 2000 UM M.S., Geology, Catchment basin size and controls on the compositional diversity of modern sand in the Columbia River drainage system, western Montana to the Cascade subduction zone.

Jessee Mitchell, 2002, UM M.S., Evolution of the Bighorn basin during final retreat of the Cretaceous Western Interior Seaway and initiation of Laramide uplifts.

- Andrew Urie, 2002, UM M.S., Geology, Sequence stratigraphy, mineralogy, and paleogeography of Triassic marginal marine and continental deposits of the Wind River basin, west-central Wyoming.
- Matthew Affolter, 2004, UM M.S., On the nature of volcanic lithic fragments: definition, source, and evaluation.
- Amy K. Bondurant, 2005, UM M.S., Geologic mapping and sedimentologic analysis of Quaternary deposits along the western shore of Flathead Lake, northwestern Montana: documenting the record of deglaciation.
- Garrett Timmermann, 2005, Constraining temporal relationships among the draining of glacial Lake Missoula, the retreat of the Flathead ice lobe, and the development of the lower Flathead River Valley.
- Ryan Portner, 2005, Sedimentary and tectonic evolution of the Flint Creek basin, west-central Montana.
- Edward Salmon III, 2006, UM M.S., Distribution of pre-Quaternary and Quaternary geologic units at the former terminus of the Cordilleran ice sheet; analysis of map relation north of Polson, Montana
- Jason Braden, 2006, UM M.S., History of syn-glacial and post-glacial sedimentation at the former terminus of the Flathead ice lobe near Polson, Montana.
- Michael Hofmann, 2006, UM Ph.D., Sedimentary record of glacial dynamics, lake level fluctuations, and tectonics: Late Pleistocene-Holocene structural and stratigraphic analysis of the Flathead Lake basin and the Mission Valley, Montana, USA.
- Michael Sperazza, 2006, UM Ph.D., Acquisition and evaluation of sedimentologic, paleomagnetic, and geochemical time-series data from Flathead Lake, Montana: Implications for Late Pleistocene and Holocene paleoclimate
- Jason Edwards, 2006, UM M.S., Evidence for Glacial Outburst Floods along the Lower Flathead River: Results from Geologic Mapping, Geomorphologic Analysis, and a Gravity Survey near Polson, Montana.
- McCune, in progress, UM M.S., Geologic mapping and sedimentary basin analysis of the upper Blackfoot River basin near Helmville, Montana.
- Joern Hauer, in progress, UM Ph.D., Sedimentary record of Neogene extension in the Deer Lodge basin and surrounding areas, west-central Montana.
- Kevin Lielke, in progress, UM Ph.D., Cenozoic sedimentary record of tectonics and climate change in the Madison and Ruby Valley, southwestern Montana.

UM UNDERGRADUATE THESES ADVISED (only principal advisees listed below)

Wendy Kirschner, 1995, Paleocurrent analysis of Mesozoic nonmarine strata, western Mongolia.

Bradley Wolfinger, 1997, Total station survey and sedimentologic analysis of a gravel bar at Conner Crossing, West Fork Bitterroot River, Montana.

Peter Taglia, 1998, Cyclicity in the Snowslip Formation Middle Proterozoic Belt Supergroup, Montnan, using digital methods.

Christopher Corwin, 1999, Total station survey and sedimentologic analysis of the Turah bar, Clark Fork River, Montana.

Christopher DuRoss, 1999, Analysis of the morphology and development of landslides along Grant Creek, winter, 1998-1999.

Jeremy Hurst, 2000, Geomorphologic analysis of an active landslide, Grants Creek, Missoula, Montana.

Kristy Ridge, 2001, Assessing the impact of wildfire on geomorphology in a small mountain stream, Laird Creek, western Montana

Thomas Gerber, 2002, Late Pleistocene and Holocene carbon and nitrogen chemistry trends in sediment of Flathead Lake, Montana: record of abrupt climate change at the termination of the recent glacial period

Donovan Power, 2005, Geologic mapping of Wildhorse Island, Flathead Lake, Montana

Jenica Andersen, in progress, Archiving and initial processing of a unique seismic reflection data set from Flathead Lake, Montana

Christopher Matson, in progress, Report and analysis of the first known occurrence of three-dimensional preservation of dinosaur integument

Lee-Gray Boze, in progress, Mapping and speleontologic analysis of Dancing Goat Cave, Glacier National Park, Montana.

MAJOR PUBLICATIONS

Carroll, A. R., Stephens, N. P., **Hendrix, M. S.**, and Glenn, C. R., 1998, Eolian-derived siltstone in the Upper Permian Phosphoria Formation: Implications for Marine Upwelling: *Geology*, v. 26, no. 11, p. 1023-1026.

Carroll, A.R., Graham, S. A., Xiao, X., **Hendrix, M. S.**, Chu, J., and McKnight, C.L., 1990, Junggar Basin, northwest China: trapped late Paleozoic ocean: *Tectonophysics*, v. 181, p.1-14.

- Carroll, A.R., Graham, S.A., **Hendrix, M.S.**, Ying, D., and Zhou, D., 1995, Late Paleozoic tectonic amalgamation of Northwestern China: Sedimentary record of the northern Tarim, northwestern Turpan, and southern Junggar basins: Geological Society of America Bulletin, v. 107, no. 5, p. 571-594.
- Dumitru, T. A., Zhou, D., Chang, E., Graham, S. A., **Hendrix, M. S.**, Sobel, E. R., and Carroll, A. R., 2001, Uplift, exhumation, and deformation in the Chinese Tian Shan IN **Hendrix, M. S.**, and Davis, G. A. (eds.) Paleozoic and Mesozoic tectonic evolution of central and eastern Asia - from continental assembly to intracontinental deformation: Geological Society of America Memoir 194, p. 71-100.
- Dumitru, T. A., and **Hendrix, M. S.**, 2001, Kilometer-scale Jurassic unroofing in southern Mongolia - signature of intracontinental deformation during the Mesozoic assembling of central Asia IN **Hendrix, M. S.**, and Davis, G. A. (eds.) Paleozoic and Mesozoic tectonic evolution of central and eastern Asia -- from continental assembly to intracontinental deformation: Geological Society of America Memoir 194, p. 215-230.
- Graham, S. A., **Hendrix, M. S.**, Barsbold, R., Badamgarav, D., Sjostrom, D., Kirschner, W., and McIntosh, J. S., 1997, Stratigraphic occurrence, paleoenvironment, and description of the oldest known dinosaur (Late Jurassic) from Mongolia: Palaios, v. 12, no. 3, p. 292-297.
- Graham, S. A., **Hendrix, M. S.**, Wang, L. B., and Carroll, A. R., 1993, Collisional successor basins of western China: Impact of tectonic inheritance on sand composition: Geological Society of American Bulletin, v. 105, p. 323-344.
- Graham, S.A., Brassell, S., Carroll, A. R., McKnight, C. L., Chu, J., **Hendrix, M. S.**, Xiao, X., Demaison, C., and Liang, Y., 1990, Characteristics of selected petroleum source rocks, Xianjiang Uygur Autonomous Region, northwest China: Am. Assoc. Petrol. Geol. Bull., v. 74, no. 4, p.493-512.
- Graham, S.A., **Hendrix, M.S.**, Johnson, C.L., Badamgarav, D., Badarch, G., Amory, J., Porter, M., Barsbold, R., Webb, L.E., and Hacker, B., submitted, Sedimentary record and tectonic implications of Mesozoic rifting in southeast Mongolia: Geological Society of America Bulletin.
- Greene, T. Carroll, A.R., **Hendrix, M.S.**, Cheng, K., and Zheng, X.M., 2000, Sedimentology and paleogeography of the Middle Jurassic Qiketai Formation, Turpan-Hami basin, Northwest China IN Glerlowski-Kordesch, E.H. and Kelts, D.R., (eds.), Lake basins through space and time: American Association of Petroleum Geologists Studies in Geology 46, p. 141-152.
- Greene, T. J., **Hendrix, M. S.**, Carroll, A. R., and Graham, S. A., 2001, Sedimentary record of intra-Mesozoic deformation and Middle to Late Triassic inception of the Turpan-Hami basin, northwest China IN **Hendrix, M. S.**, and Davis, G. A. (eds.) Paleozoic and Mesozoic tectonic evolution of central and eastern Asia -- from continental assembly to intracontinental deformation: Geological Society of America Memoir 194, p. 317-340.

Hendrix, M.S., in press, 'Continental Sediments' IN *The Encyclopedia of Paleoclimatology and Ancient Environments: Springer-Verlag*.

Hendrix, M.S., 2000, Evolution of Mesozoic sandstone compositions, southern Junggar, northern Tarim, and western Turpan basins, northwest China: a detrital record of the ancestral Tian Shan: *Journal of Sedimentary Research*, v. 70, no. 3, p. 520-532.

Hendrix, M. S., and Brassell, S. C., 1993, Sources of organic matter in widespread Jurassic coal deposits from northwest China: geochemical comparisons of samples from the Junggar, Tarim, and Turpan basins: Extended abstracts volume from 16th International Meeting on Organic Geochemistry, Stavanger, Norway, p. 349-352.

Hendrix, M. S., and Byers, C. W., 2000, Stratigraphy and sedimentology of Permian strata, Uinta Mountains, Utah: allostratigraphic controls on the accumulation of economic phosphate IN Glenn, C. L., (ed.) *Marine Authigenesis: from Global to Microbial: SEPM Special Publication No. 66*, p. 349-367.

Hendrix, M. S., Beck, M. A., Badarch, G., and Graham, S. A., 2001, Triassic synorogenic sedimentation in southern Mongolia: early effects of intracontinental deformation, IN **Hendrix, M. S.**, and Davis, G. A. (eds.) *Paleozoic and Mesozoic tectonic evolution of central and eastern Asia -- from continental assembly to intracontinental deformation: Geological Society of America Memoir 194*, p. 389-412.

Hendrix, M. S., Graham, S. A., Amory, J. Y., and Badarch, G., 1996, Noyon Uul (King Mountain) Syncline, southern Mongolia: Early Mesozoic sedimentary record of the tectonic amalgamation of central Asia: *Geological Society of America Bulletin*, v. 108, no. 10, p. 1256-1274.

Hendrix, M. S., Graham, S. A., Carroll, A. R., Sobel, E. R., McKnight, C. L., Schulein, B. J., and Wang, Z., 1992, Sedimentary record and climatic implications of recurrent deformation in the Tian Shan: Evidence from Mesozoic strata of the north Tarim, south Junggar, and Turpan basins, northwest China: *Geological Society of America Bulletin*, v. 104, p. 53-79.

Hendrix, M. S., 2001, Preface IN **Hendrix, M. S.**, and Davis, G. A. (eds.) *Paleozoic and Mesozoic tectonic evolution of central and eastern Asia -- from continental assembly to intracontinental deformation: Geological Society of America Memoir 194*, p. v-vi.

Hendrix, M.S., and Davis, G.A., (eds.), 2001, *Paleozoic and Mesozoic tectonic evolution of central Asia -- from continental assembly to intracontinental deformation: Geological Society of America Special Paper 194* (contains 19 individual manuscripts).

Hendrix, M.S., Brassell, S.C., Carroll, A.R., and Graham, S.A., 1995, Sedimentology, organic geochemistry, and petroleum potential of Jurassic coal measures: Tarim, Junggar, and Turpan basins, northwest China: *American Association of Petroleum Geologists Bulletin*, v. 79, no. 7, p. 929-959.

- Hendrix, M.S.**, Dumitru, T.A., and Graham, S.A., 1994, Late Oligocene-early Miocene unroofing in the Chinese Tian Shan: an early effect of the India-Asia collision: *Geology*, v. 22, p. 487-490.
- Hofmann, M. H. and **Hendrix, M. S.** (2004). Geologic Map of parts of the Arlee, St. Ignatius, Gold Creek, and St. Mary's Lake 7.5' Quadrangles, Northwest Montana. Open-File Report 497. Butte, Montana, Montana Bureau of Mines and Geology.
- Hofmann, M.H., and **Hendrix, M.S.**, 2004, Geologic map of the East Bay 7.5' Quadrangle, Northwest Montana: Montana Bureau of Mines and Geology Open File 496.
- Hofmann, M. H., **Hendrix, M.S.**, Sperazza, M, and Moore, J.N., (2006). "Late Pleistocene and Holocene depositional history of sediments in Flathead Lake, Montana: evidence from high-resolution seismic reflection interpretation." *Sedimentary Geology* 184(1-2): 111-131.
- Hofmann, M. H., **Hendrix, M.S.**, Sperazza, M., and Moore, J.N., (2006). "Neotectonic evolution and fault geometry change along a major extensional fault system in the Mission and Flathead Valleys, NW Montana." *Structural Geology* 28(7): 1244-1260.
- Johnson, C.J., Greene, T., Zinniker, D., Carroll A. R., and **Hendrix, M.S.**, 2003, Geochemical characteristics and correlation of oils and lacustrine source rocks from Mongolia: *American Association of Petroleum Geologists Bulletin*: v. 87; no. 5, p. 817-846
- Johnson, C., Webb, L., Graham, S. A., **Hendrix, M.S.**, and Badarch, G., 2001, Sedimentary and structural records of late Mesozoic high-strain extension and strain partitioning, East Gobi basin, southern Mongolia IN **Hendrix, M. S.**, and Davis, G. A. (eds.) *Paleozoic and Mesozoic tectonic evolution of central and eastern Asia -- from continental assembly to intracontinental deformation: Geological Society of America Memoir* 194, p. 413-434.
- Keller, A. M. K., and **Hendrix, M. S.**, 1997, Paleoclimatologic analysis of a Late Jurassic petrified forest, southeastern Mongolia: *Palaios*, v. 12, no. 3, p. 282-191.
- McKnight, C. L., Carroll, A. R., Chu, J., **Hendrix, M. S.**, Graham, S. A., and Lyon, R. J. P., 1989, Stratigraphy and structure of the Kalpin uplift, Tarim basin, northwest China: *Proceedings of the Seventh Thematic Conference on Remote Sensing for Exploration Geology, Environmental Research of Michigan*, p. 1085-1096.
- Murray, C. J., Lowe, D. R., Graham, S. A., Martinez, P. A., Zeng, J., Carroll, A. R., Cox, R., **Hendrix, M.**, Heubeck, C., Miller, D., Moxon, I. W., Sobel, E., Wendebourg, J., and Williams, T., Analysis of bed thickness and grain size patterns in a turbidite section from the Great Valley Sequence, Cache Creek, northern California, *Journal of Sedimentary Petrology*, v. 66, no. 7, p. 900-908.
- Portner, R. and **Hendrix, M.S.**, 2005, Preliminary geologic map of the eastern Flint Creek Basin west-central Montana: Montana Bureau of Mines and Geology Open-file report 521.

- Roberts, E. M., and **Hendrix, M. S.**, 2000, Taphonomy of a petrified forest in the Two Medicine Formation (Campanian), northwest Montana: implications for palinspastic restoration of the Boulder Batholith and Elkhorn Mountains Volcanics: *Palaios*, v. 15, p. 476-482.
- Sears, J.W., and **Hendrix, M.S.**, 2004, Lewis and Clark line and the rotational origin of the Alberta and Helena salients, North American Cordillera: *Geological Society of America Special Paper* 283, p. 173-186.
- Sears, J.W., **Hendrix, M. S.**, Waddell, A. Webb, B., Nixon, B., King, T., Roberts, E., and Lerman, R., 2000, Structural and stratigraphic evolution of the Rocky Mountain foreland basin in central-western Montana: *GSA-RMS field trip guide*, p. 131-155.
- Sjostrom, D. J., **Hendrix, M.S.**, Badamgarav, D., Graham, S. A., and Nelson, B. K., 2001, Non-marine record of intracontinental deformation in Central Asia: Sedimentology, Provenance, and Tectonic Setting of Jurassic and Lower Cretaceous strata, Western Mongolia, **IN Hendrix, M. S.**, and Davis, G. A. (eds.) *Paleozoic and Mesozoic tectonic evolution of central and eastern Asia -- from continental assembly to intracontinental deformation: Geological Society of America Memoir* 194, p. 361-388.
- Sperazza, M., Moore, J.N., and **Hendrix, M.S.**, 2004, High resolution particle size analysis of naturally-occurring very fine-grained sediment through laser diffractometry: *Journal of Sedimentary Research*: v. 74; no. 5, p. 736-743
- Webb, L.E., Graham, S. A., Johnson, C. L., Badarch, G., and **Hendrix, M. S.**, 1999, Occurrence, age, and implications of the Yagan–Onch Hayrhan metamorphic core complex, southern Mongolia: *Geology*, v. 27, p. 143-146.

PUBLISHED ABSTRACTS/ PAPERS PRESENTED AT PROFESSIONAL MEETINGS

- Affolter, M.D., and **Hendrix, M.S.**, 2004, Correlations between volcanic lithic fragments and composition of source volcanic rock: *Geological Society of America Abstracts with Programs*, v. 36, no. 5, p. 370.
- Amidon, L. J., **Hendrix, M. S.**, and Lenegan, R., in press, Dendroclimatologic analyses of the Gallatin petrified forest (Middle Eocene), southwest Montana: a record of altitude-related microclimate in the Yellowstone region?: *Geological Society of America Abstracts with Programs*, v. 28, no. 7, p. A-294.
- Amory, J. Y., **Hendrix, M. S.**, Lamb, M., Keller, A. M., Badarch, G., and Tomurtogoo, O., 1994, Permian sedimentation and tectonics of southern Mongolia: implications for a time-transgressive collision with north China: *Geological Society of America Abstracts with Programs*, v. 26, no. 7, p. A242.
- Borrell, J., and **Hendrix, M.S.**, 2000, Cretaceous-Tertiary tectonic evolution of the northeastern crazy mountains basin, central Montana: a petrofacies, lithofacies, and paleocurrent approach: *Geological Society of America Abstracts with Programs*, v. 32, no. 5, p. A-3.

- Carroll, A. R., Graham, S. A., **Hendrix, M. S.**, Chu, J., McKnight, C.L., Liang, Y., and Xiao, X., 1989, Late Carboniferous collision of the Tarim craton, NW China: Geological Society of America Abstracts with Programs, v. 21, p. A348.
- Carroll, A. R., Graham, S. A., **Hendrix, M. S.**, Chu, J., McKnight, C.L., Liang, Y., and Xiao, X., 1989, Sedimentary facies and petroleum source potential, Upper Permian Lucaogou Formation, Junggar basin, N.W. China: Am. Assoc. Petr. Geol. Bull., v. 73, p. 340.
- Carroll, A. R., Graham, S. A., **Hendrix, M. S.**, McKnight, C. L., Sharps, R., and Xiao, X., 1990, Late Paleozoic tectonics and sedimentation of the Tian Shan region, northwest China: IGCP 283 meeting, Ulan-Ude, Siberia, USSR.
- Carroll, A. R., Graham, S. A., **Hendrix, M.**, Chu, J., McKnight, C.L., Xiao, X., and Liang, Y., 1988, Sedimentary record of the late Paleozoic continental accretion, Junggar and Tarim basins, northwestern China: Tokyo Institute of Technology, Dynamics and Evolution of the Lithosphere Project Sixth International Japan-USSR Geotectonics Symposium, International Lithosphere Project Publication 0155, p. 13.
- Graham, S. A., **Hendrix, M. S.**, Badarch, G., and Badamgarav, D., in press, Sedimentary record of transition from contractile to extensional tectonism, Mesozoic, southern Mongolia: Geological Society of America Abstracts with Programs, v. 28, no. 7, p. A-68.
- Graham, S. A., Zhou, D., Chang, E. Z., and **Hendrix, M. S.**, 1994, Origins of intermontane Jurassic strata of the Chinese Tian Shan: Geological Society of America Abstracts with Programs, v. 26, no. 7, p. A464.
- Graham, S.A., **Hendrix, M.S.**, Wang, L., and Carroll, A.R., 1991, Collisional foreland basins of western China: impact of inherited provenance on sand composition: Geol. Soc. Am. Abstr. with Progr., v. 23, no. 5, p. A73.
- Greene, T. J., Carroll, A. R., **Hendrix, M. S.**, Graham, S. A., Moldowan, J. M., and Li, J., 1997, Permian-Triassic basin evolution and petroleum system of the Turpan-Hami Basin, Xinjiang Province, Northwest China: American Association of Petroleum Geologists Annual Convention Abstracts with Programs, v. 6, p. A42.
- Hendrix, M. S.**, 1990, Middle to Upper Jurassic lake formation within the south Junggar and north Tarim basins, northwest China: Am. Assoc. Petrol. Geol. Bull., v. 74, p.100.
- Hendrix, M. S.**, 1991, Multiple Mesozoic terrane accretion events along the south Asian continental margin: evidence from nonmarine strata of Xinjiang: IGCP 283 meeting, Shenyang, China.
- Hendrix, M. S.**, 1992, Sedimentary attributes of Mesozoic basins of northwest China - implications for hydrocarbon exploration in a unique foreland setting: American Association of Petroleum Geologists Annual Convention Program, v. 1, p. 54.

- Hendrix, M. S.**, 1994, Interplay of Mesozoic tectonics and climate in central Asia: Implications for Mesozoic-sourced oil fields of northern China and Mongolia: American Association of Petroleum Geologists Annual Convention Program, v. 3, p. 169.
- Hendrix, M. S.**, 1994, The Mesozoic Tian Shan as a positive physiographic feature: inferences from sandstone compositions of the Junggar, Tarim, and Turpan basins, northwestern China: Geological Society of America Abstracts with Programs, v. 26, no. 7, p. A464.
- Hendrix, M. S.**, 1996, Nonmarine Mesozoic basins as a record of the tectonic amalgamation of central and southern Asia: Abstracts of the International Geological Congress, Beijing, China, v. 1, p. 324.
- Hendrix, M. S.**, Bondurant, A.K., Timmerman, G., and Salmon, E.L.III, 2004, Preliminary results from geologic mapping and sedimentologic analysis of late Pleistocene glacial and post-glacial deposits, southern Flathead and northern Mission Valleys, western Montana: Geological Society of America, Abstracts with Programs v. 36, no. 5, p. 287.
- Hendrix, M. S.**, and Byers, C. W., 1986, Sedimentology of the Meade Peak shale and Franson carbonate members, Park City Formation (Permian), Uinta Mountains, Utah: Geol. Soc. Am. Rocky Mtn. Sec. Abstr. with Progr., v. 19, no. 5, p. 283.
- Hendrix, M. S.** and Ford, R., 1998, Application of a novel high resolution object recognition algorithm for petrographic image analysis of reservoir facies from the Rabbit Hills oil field, Montana: American Association of Petroleum Geologists Annual Convention, Salt Lake City: Abstract #288.PDF on Meeting Abstracts CD-ROM.
- Hendrix, M. S.**, and Graham, S. A., 1991, Mesozoic climatic record as preserved in nonmarine sedimentary strata of the south Junggar, north Tarim, and Turpan basins, northwest China: Geol. Soc. Am. Abstr. with Progr., vol. 23, no. 5, p. 399.
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- Sperazza, M., M. H. Hofmann, **Hendrix, et al.**, 2005, Quantitative Evaluation of a Rapid and Severe Early Holocene Drought in NW-Montana: Eos Trans Transactions of the American Geophysical Union, v. 86, p. F1262-1263.
- Sperazza, M., Moore, J.N., and **Hendrix, M.S.**, 2002b, Methodology for sediment grain size analysis by laser diffraction: a high resolution application: Abstracts with Programs - Geological Society of America, 34/6., p. 207.

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Zhou, D., Dumitru, T. A., **Hendrix, M. S.**, and Graham, S. A., 1995, Apatite Fission-track Thermochronologic Signature of Mesozoic and Cenozoic Episodic Reactivation of Chinese Tian Shan: Geological Society of America Abstracts with Programs, v. 27, no. 6, p. A456.

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GRANTS & FINANCIAL SUPPORT OF RESEARCH & TEACHING

2006 UM Instructional Development Program: Development of a sedimentary geology thin-section teaching collection at UM and its role in better preparing students for employment in the petroleum and water industries: \$1,440.

2005 UM faculty exchange program: Expanding opportunities for UM Geoscience students through exchange with Uni-Potsdam's field geology mapping course: \$4,725.

USGS-Edmap program: Cenozoic sedimentary basin evolution and stratigraphic assessment of the upper Blackfoot River basin, western Montana: mapping selected portions of five USGS 7.5' quadrangles: \$24,766.

UM Visiting Scholars Program: Proposed visit to UM by Prof. David Gaylord, Washington State University: \$810.

2004 USGS-Edmap program: Documenting the terminal history of glacial Lake Missoula and associated deglaciation by mapping selected portions of the Buffalo Bridge, Polson, and Wild Horse Island USGS Quadrangles: \$27,182.

UM faculty exchange program: Exploring avenues of scientific collaboration and fostering growth of faculty and student exchanges between the University of Montana and three European institutions of higher education: a short term faculty exchange proposal: \$5,109.

- USGS-Edmap program: Documenting the history of glacial Lake Missoula and final deglaciation in the northern Rocky Mountains by mapping selected portions of nine USGS quadrangles: \$22,000.
- 2003 USGS-Edmap program: Sedimentary basin evolution and hydrostratigraphic assessment of the Hall basin, Western Montana: Mapping selected portions of the Drummond and Hall USGS 7.5' quadrangles: \$23,120.
- 2002 NSF-ATM (Earth Systems History): Understanding the record of rapid and gradual climate change in large lakes: Late Pleistocene and Holocene sedimentation in Flathead Lake, Montana: \$282,316.
- NSF-EPSCOR: Analysis of sediment cores from Flathead Lake, Montana: developing time-series proxies for Late Pleistocene through Holocene climate and hydrologic change: \$24,778.
- USGS-Edmap program: Geometry of the Mission and Jocko Faults and character of associated Quaternary deposits, Mission, Flathead, and Jocko Valleys, western Montana: mapping selected portions of four USGS quadrangles: \$28,998.
- National Park Service: Paleontological Survey and Geologic Recommendations for Reconstruction of Sylvan Pass, Yellowstone National Park: \$20,000.
- German Government: Quaternary tectonics of the Mission and Flathead Valleys, western Montana through structural and stratigraphic analysis: German Academic Exchange Service for M. Hofmann, 8,229.48 Euros for one year.
- 2001 UM Student Computer Fee Proposal: Upgrading the joint Geology-Physics/Astronomy Macintosh computer lab to provide general education students with personalized computer and www experience: \$35,980.
- 2001 UM Small Grant: Sedimentology and geochemistry of Flathead Lake: natural record of climate change, fire history, and pollution during the past 15,000 years: \$2,500.
- 2001 NSF-EpsCoR Undergraduate Research Grant: A 14,000 year record of carbon and sulfur profiles in Flathead sediments: proxies for limnologic and climate change since the Late Pleistocene: \$1500.
- 2000 National Science Foundation – EpsCor: Northern Rockies Center for Applied Computational Science: Collaborative research with faculty from Computer Science and Forestry. \$499,464.
- 1999 National Science Foundation - Course, Curriculum, and Lab Improvement: Establishment of the Upper Clark Fork River Basin Long-Term Characterization Project: platform for discovery-based undergraduate teaching and research at the University of Montana. \$84,942.

- UM Student Computer Fee Proposal: Introducing students to the computer and www at the general education level through a joint Geology-Physics/Astronomy Macintosh computer lab, \$31,000.
- 1998 University Grants Program: Preliminary sedimentary and geochemical investigation of the Permian Phosphoria Formation, northern Rocky Mountains. \$2,200.
- 1997 National Science Foundation. Nonmarine sedimentary record of transition from contractile to extensional deformation, Mesozoic southern Mongolia. Support for 3 years for sedimentary basin research in southern Mongolia. Research is a collaborative effort between UM, Stanford University, and the Mongolian Academy of Sciences. \$275,000.
- 1996 American Chemical Society - Petroleum Research Fund. Assessing distal effects of the Yellowstone hotspot: evidence from sedimentary basins of western Montana. Support for two years to describe the nature of sediments in western Montana basins and interpret them in the context of volcanic activity associated with the Yellowstone hotspot. \$20,000.
- 1995 National Science Foundation Research Experiences for Undergraduates. Supplemental funding for NSF Grant EAR-9315941 to support UM undergraduate Wendy Kirschner during the 1995 field season in Mongolia. \$5,000.
- MONTS Grant: Constraints on the role of the Lewis and Clark Line during Late Cretaceous partitioning of the northern Rocky Mountain foreland, western Montana: a combined structural and sedimentary basin analysis approach. Support for one year to address the role of the Lewis and Clark lineament in evolution of the northern Rocky Mountains; Jim Sears (University of Montana) is the co-PI. \$34,711.
- 1994 UM University Grants Program: Basin Analysis and Paleoclimate Investigations of the Northern Rocky Mountains. Seed money support to initiate a research program on various aspects of the development of sedimentary basins in the northern Rocky Mountains. \$2,500.
- Instructional Development Program: Evolution and extinction of a worldclass fossil reef: sedimentary geology and tectonics of the Permian Capitan Reef Complex, West Texas. Funds to offset cost of G495 field trip to West Texas. \$1,000.
- 1993 National Science Foundation: Mesozoic tectonics and climate of Mongolian sedimentary basins: insights from six key stratigraphic sections. Support for a two-year period (1/94-12/96) to cover basic field and laboratory expenses incurred during collaborative investigation of nonmarine Mesozoic strata of pre-determined optimal sections. Stanford University does not permit post-doctoral research associates to serve as principal investigators on major grants, so Professor Stephan A. Graham is listed as the only P.I. \$177,018.
- International Research and Exchanges Board (IREX): Sedimentary basin analysis and petroleum potential assessment of Mongolia. Support to offset field costs of 1993 Stanford-Mongolia field season. \$3,524

1992-5 Stanford-Mongolia Geosciences Industrial Affiliates Program: Paleozoic and Mesozoic tectonics and petroleum geology of Mongolia (\$10,000 in 1992; \$17,500 in 1993; \$14,000 in 1994; \$3,500 in 1995). Co-PI with Prof. Stephan A. Graham.

AWARDS, HONORS, & SCHOLARSHIPS

2003	Promoted to full professor, University of Montana
2000	Granted sabbatical leave, fall semester, University of Montana
1999	Granted continuous tenure, University of Montana
1997	Helen and Winston Cox Teaching Award, University of Montana
1987-1990	Applied Earth Sciences Scholarship, Stanford University
1985-1986	Van Hise Fellowship, Geology and Geophysics Dept., University of Wisconsin-Madison
1985-present	Member, Wittenberg Honor Society (Phi Beta Kappa equivalent)
1985	Presidential Scholarship, Wittenberg University
1985	Passed Geology Major Senior Comprehensive Exam with distinction
1983-1985	David E. Trucksess Earth Sciences Scholarship, Wittenberg University
1984	National Association of Geological Teachers Summer Field Course Scholarship, Indiana University
1981-1985	Dean's List, 11 of 12 terms, Wittenberg University
1978	Eagle Scout Award

STUDENT ADVISEE AWARDS

1998 Hendrix's graduate student, Amy Waddell and undergraduate advisee, Benjamin Webb, won third prize (\$500 award) at the American Association of Petroleum Geologists Annual Meeting student paper competition for their presentation "Stratigraphic and sedimentologic analysis of nonvolcanic strata in the Late Cretaceous Golden Spike Formation, Western Montana."

1997 Hendrix's first graduate student, Derek Sjostrom, won first prize (\$3000 award) at the American Association of Petroleum Geologists Annual Meeting student paper competition for his presentation "Mesozoic sedimentology, stratigraphy, and provenance of western Mongolia as a record of the tectonic amalgamation of central Asia."

Hendrix's High School student advisee Jennifer Halverson won a Gold Medal at the Missoula Science Fair for her presentation "Dendroclimatologic study of Eocene fossil trees, Gallatin National Forest, southwestern Montana."

INVITED TALKS AND CHAIRED SYMPOSIA

- 2004 Drilling Flathead Lake, Montana: Sedimentary record of Pleistocene-Holocene tectonics, glacial dynamics, and paleoclimate: DOSECC (Drilling, Observation, and Sampling of Earth's Continental Crust) workshop symposium, Rutgers University, New Jersey.
- 2004 Using sediments to infer the natural history of northwestern Montana during and after the last Ice Age: the record from Flathead Lake: keynote speaker for annual meeting of the Ice Age Floods Institute, Missoula, Montana
- 2003 Late Pleistocene and Holocene sedimentation in the Flathead Lake basin, northwest Montana: a dynamic record of tectonics and paleoclimate: Montana State University
- 2003 Late Pleistocene and Holocene sedimentation in the Flathead Lake basin, northwest Montana: a dynamic record of tectonics and paleoclimate: Washington State University – Pullman
- 2003 Late Pleistocene and Holocene sedimentation in the Flathead Lake basin, northwest Montana: a dynamic record of tectonics and paleoclimate: Eastern Washington University
- 1999 Sedimentary record of extreme continental growth: Mesozoic sedimentary basin development in central Asia: invited Sigma Xi talk, University of Montana
- 1998 Early Mesozoic development of a regional lake system in southern Mongolia -sedimentary signature of a collisional foreland style basin?: Yinshan-Yanshan Major thrust and nappe structure field conference, Hohhot, China
- 1997 Co-organizer and reviewer of Oral Theme session, Source Rocks: controls, predictive models, and identification: American Association of Petroleum Geologists National Meeting, Dallas
- Reconstructing central Asia: geologic exploration and cultural interaction in Mongolia: Faculty Abroad Lecture Series, University of Montana
- 1996 Organizer, Reviewer, and Chair of Oral Theme session, Paleozoic and Mesozoic tectonic history of central Asia: Geological Society of America National Meeting, Denver, October 28-31, 1996.
- Sedimentary basin analysis of Mesozoic strata, central Asia: nonmarine record of extreme continental growth: Montana State University, Bozeman, MT
- 1995 Mesozoic sedimentary basin analysis, northwest China: nonmarine record of continental growth: University of California at Los Angeles; Los Angeles, California
- Sedimentary basin history and petroleum potential of the Junggar basin, northwestern China: Agip Petroleum Company; Milan, Italy

Mesozoic sedimentary basin analysis, northwest China: nonmarine record of continental growth: Idaho State University; Pocatello, Idaho

Petroleum potential of the Junggar basin, Northwestern China: Stanford University; Stanford, California

Attributes of a Triassic-Jurassic foreland basin in southern Mongolia and relationship to the tectonic amalgamation of central Asia: Stanford University; Stanford, California

1994 Sedimentary basin analysis and petroleum potential of Mesozoic strata, northwestern China: Shell China Petroleum; Beijing, China

Sedimentary basin analysis and petroleum potential of Mesozoic strata, northwestern China: BP Exploration Operating Company; Beijing, China

PROFESSIONAL AND PUBLIC SERVICE

1994-2004	Reviewed >85 individual manuscripts for professional earth science journals
1994-2004	Reviewed >45 individual proposals from the National Science Foundation, as well as proposals submitted to the Idaho State Board of Education, SEPM, and the American Chemical Society
1998-present	University International Committee (currently serving as chair)
2005	Geography Department Search Committee – Physical Geographer
2004	University Sub-committee on International Recruitment
2004	University Organizing Committee - Conference for Undergraduate Research
2004	Geology Department Search Committee, Earth Materials position
2004	Geology Department Search Committee, Active Processes position
2004	Moderator, Environmental panel – UM Mansfield Conference
2003	Search Committee, Director of Mansfield Center for East Asian Policy
2003	Geology Department Graduate Admissions Committee
2003	Geology Department Search Committee, Fluvial Geomorphology Position
1994-1997	University Faculty Development Committee
1994-1997	University Research and Creative Activities Committee
1997	Chair, Search Committee for Assistant Vice President for Research
1998	College of Arts and Sciences Graduation Ceremony Marshall
1995, 1997	Geology Department Faculty Evaluation Committee
1995-present	Geology Department Field Camp Committee
1997-present	Geology Department Newsletter Committee
1997-present	Geology Department Student Association Faculty Advisor
1994-present	Geology Department Undergraduate advisor