

**Bernard A. Housen**

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Geology Department  
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Born: Colorado Springs, Colorado, U.S.A., Dec. 8, 1965.

Married to Beth Housen; daughter Rachel (Feb. 16, 1995), son Wilson (July 22, 1996), daughter Olivia (July 4, 1998).

**Education:**

University of Michigan	Ph.D., Geology, 1994.
University of Michigan	M.S., Geology, 1990.
University of Washington	B.S., Geology, 1988.

**Positions:**

Professor, Western Washington University, Geology Department, 2008-  
Associate Professor, Western Washington University, Geology Department, 2003-2008  
Assistant Professor, Western Washington University, Geology Department, 1997-2003  
Research Associate, University of Minnesota, Geology & Geophysics 1996-1997.  
Post-doctoral Associate, University of Minnesota, Geology & Geophysics 1994-1996.

**Teaching:**

Introduction to Geology (Geol 101), Honors Geology (Hon 158), Plate Tectonics (Geol 202), Physical Geology (Geol 211), Structural Geology (Geol 318), Geological Oceanography (Geol 340), Geophysics (Geol 352), Field Camp (Geol 410, 411), Geophysics Seminar (Geol 417), Applied Geophysics (Geol 452), Practical Paleomagnetism (Geol 457), Magnetic Fabrics (Geol 454).

**Ocean Drilling Program participation:**

Shipboard Paleomagnetist, ODP Leg 170 (Costa Rica Margin), 1996.  
Shipboard Paleomagnetist, ODP Leg 156 (North Barbados Ridge), 1994.  
Shipboard Paleomagnetist, ODP Leg 146 (Cascadia), 1992.

**Research Interests:**

Applications of geophysics to structural and tectonic problems, paleomagnetism and plate motions, deformation fabrics and tectonics of active accretionary prisms and mélanges, magnetic mineral diagenesis and environmental magnetism of marine sediments, emplacement and deformation fabrics in granitic rocks, magnetic anisotropy, biomagnetism, paleomagnetism of deformed rocks. Ground Penetrating Radar (GPR) and near-surface geophysics (seismic, electrical resistivity) applied to geological, hydrological, and forensic studies. Magnetic and sonic-velocity properties of materials.

**Professional Credentials:** Licenced Professional Geologist (State of Washington, Lic. # 728)

**Students:**

**Undergraduate Senior Theses:**

Taryn Shriver (BS 1998); Eric Gottlieb (BS 2001); Tracy Wiggins (BA 2002); Robert Sargent (BS 2003), Lisa Hawkins (BS 2004), Lisa Linville (BS 2005), Amanda Varsos (BS 2006). Jon Cooper (BS 2009), Sarah Polster (BS 2009), Brendan Miller (BS 2009), Sadie Belica (BS in progress)

**Graduates, MS thesis advisor:**

- Phyllis Gregoire (MS 2001) "A paleomagnetic study of the Morrison Formation from the Black Hills, South Dakota and Wyoming: Implications for North American apparent polar wander during the Jurassic"
- Tammy Fawcett (MS 2001) "Geology of the Cooper Mountain Pluton, North Cascade Mountains, Washington, based on magnetic fabrics, magnetic remanence and petrography"
- Allison Dean (MS 2002) "Paleogeography of the Spieden Group, San Juan Islands, Washington"
- Elizabeth Kilanowski (MS 2002) "The apparent polar wander path for Jurassic North America: A contribution from the Black Hills of Wyoming and South Dakota"
- Chad Hults (MS 2002) "Paleomagnetism of the Jura-Cretaceous Kyuquot Group, Vancouver Island, British Columbia"
- Mike Hutchinson (MS 2003) "Delineation of Landslide Slip Surfaces Using Ground Penetrating Radar as Compared and Contrasted with Existing Slip Surface Data: Evaluation of GPR for Landslide Slip Surface Determination"
- Kris Addis (MS 2003) "Paleomagnetism of the Eocene German Rancho Formation, Point Arena Terrane, CA"
- Linda Donohoo-Hurley (MS 2004) "Evidence of Paleocene-Eocene warming from the Bellingham Bay Member of the Chuckanut Formation, Northwest Washington"
- Kirk Heim (MS 2004) "Paleomagnetism of the Stewart's Point and Anchor Bay members of the Point Arena terrane, northern California"
- Noel Liner (MS 2005) "A paleomagnetic paleolatitude determination from the upper Cretaceous units of the Gold Beach terrane, southwest coastal Oregon"
- Michael Kalk (MS 2008) "Revisiting the Seven Devils-Wrangellia connection: The paleogeography of Triassic rocks in Western Idaho"
- Andy Wiser (MS 2008) "Magnetic fabric analysis of slope failure, turbidity currents, and depositional processes along the foreslope of the Fraser River Delta"
- Chris Ward (MS 2008) "Paleomagnetism and detrital zircon geochronology of the Skeena Group, British Columbia"
- Sean Gallen (MS 2008) "An investigation of the magnetic fabrics and paleomagnetism of the Ghost Rocks Formation, Kodiak Islands, Alaska"

Students in progress: Gary Petro, Amy Fluette, Ben Baugh

MS thesis committee member: J. Laub (MS 2001), G. Ladd (MS 2003), E. Bilderback (MS 2004), B. Cashman (MS 2003), K. Davis (MS 2007), D. Feeney (MS 2008), K. O'Connell (MS-UC Davis 2008); in progress: B. Paulson, R. Dunham, J. Hutchinson.

**Invited Lectures:**

Santa Fe III Rock Magnetism Conference (June 1996), University of New Mexico Dept. Earth and Planetary Sciences (Jan. 1997), Pacific Geoscience Centre (Oct. 1997), University of Puget Sound (Sept. 1999), Northwest Geological Society (Nov. 1999), University of Wisconsin, Madison (April 2002), University of Oregon (May, 2005), University of Victoria (March 2008), WWU-retired fac/staff organization (Nov. 2008).

**Professional Societies:**

Member, American Geophysical Union, Geological Society of America  
President-elect, WWU chapter Sigma-Xi, 2001-2002.  
President, WWU chapter Sigma Xi, 2002-2003.

**University and Department Service:**

UFWW-WWU Campus Partnership Committee, 2008-  
UFWW Department Steward, Spring quarters 2008-  
Advanced Materials Science and Engineering Center (AMSEC) Executive Committee, 2006-  
College of Science & Technology: Center for Technology and Industrial Development (CTID) committee, 2006-2008  
WWU First Year Student Experience Working Group, 2008-2009.

WWU Transportation Planning Initiatives Task Force, 2002-2006.  
Faculty Senate Student Academic Grievance Board, 1998-2001.  
College of Arts and Sciences, Faculty Affairs Council, 2001-2003.  
Chair, Geology Department Geophysics Search Committee, 2004-2005.  
Chair AMSEC Inorganic Chem/Mineral Physics Search Committee, 2008-2009.  
Geology Department Transfer Advisor, 1997-2003.  
Geology Dept. Graduate Admissions, Curriculum, and Equipment Committees, 1997-various.

**Scientific Service:**

Editor, GSA Today, Geol. Soc. America, 2010-2014  
Member, JOIDES Science Steering and Evaluation Panel on the Dynamics of the Earth's Interior (ISSEP), 1999-2003.  
Chair, Local Organizing Committee, Geological Society of America Cordilleran Section Meeting, 2006-2007

**Community Service:**

Judge, Bellingham Harley-Davidson Motorcycle Show, 1999, 2001, 2002.  
Classroom volunteer, Columbia Elementary School, Bellingham, WA, 2001-2009  
Head Coach, Northwest Bellingham Soccer Club, Northside boys soccer team, 2001-2006.

**External Research Support:**

(P.I. unless otherwise indicated)

**Pending:**

National Science Foundation, Major Research Instrumentation: "MRI-R<sup>2</sup>: Acquisition of Instruments to Upgrade Rock and Materials Magnetism Research at Western Washington University", \$212,534 (submitted Aug 2009).  
National Science Foundation, Earth Sciences, Geophysics: "Collaborative Research: Paleomagnetism and Paleointensity of the Ninole and Kahuku Basalts, Big Island, Hawaii": \$181,072 (submitted June, 2009)  
National Science Foundation, Earth Sciences, Instruments and Facilities: (Co-PI with Jackie Caplan-Auerbach, Liz Schermer, WWU)  
"Upgrade of active source seismic equipment for geophysics research at Western Washington University": \$39,185 (submitted Feb 2009).

**Current:**

GDL Foundation, Structural Diagenesis Senior Research Fellowship:  
"Evaluation of syndeformational fluid flow/remagnetization in fold and thrust belts: Paleomagnetism of folded carbonate rocks of the southern Helena Salient, MT", \$10,000 (Dec 1, 2008- Nov 30, 2009)  
National Science Foundation, Earth Sciences, Tectonics:  
"Collaborative Research: Timing and controls on Plio-Pleistocene erosion and sedimentation in the eastern Peninsular Ranges, southern California", \$152,654 (Feb 1, 2009-Jan 31, 2011).

**Prior:**

National Science Foundation, Earth Sciences, Geomorphology and Land Use Dynamics:  
"Collaborative Research: Timing and controls on Plio-Pleistocene erosion in the eastern Peninsular Ranges, southern California", \$27,500 (July 1, 2007 to June 30, 2009).  
National Science Foundation, Earth Sciences, Tectonics:  
"Collaborative Research: Plate boundary reconstructions in the northern Cordillera: revisiting the paleomagnetism of a Paleocene trench-ridge-trench triple junction", \$179,001 (June 1, 2006 to May 31, 2009).  
National Science Foundation, Earth Sciences, Major Research Instrumentation:  
"Acquisition of a Vibrating Sample Magnetometer for the Paleomagnetism Laboratory, Western Washington University: \$196,019 (June 1, 2004 – July 15, 2007).  
National Science Foundation, Earth Sciences, Tectonics:

"Collaborative Research: Comparing deformation rates in wrench borderlands from geodetic and geologic data to evaluate the permanent and recoverable components of strain", \$85,454 (July 1, 2002 to June 30, 2007).

Joint Oceanographic Institutions/ U.S. Science Advisory Committee:

"Undergraduate Supplement: Effects of hydrothermal alteration on the paleomagnetism of mid-ocean ridge basalts: Rock magnetism of IODP Exp 301 samples": \$5,140 (May 2005-April 2006).

National Science Foundation, Earth Sciences, Tectonics:

"Collaborative Research: Late Cenozoic Detachment Faulting in the Western Salton Trough: Strain Partitioning in an Oblique Active- Margin Rift": \$110,851 (Feb. 1, 2002 to Jan. 31, 2005).

National Science Foundation, Earth Sciences, Tectonics:

"Collaborative Research: Integrated isotopic, geochronologic & paleomagnetic investigations of Cretaceous coastal basins: Assessment of northward translation of the 'Baja-BC'", \$56,600 (June 2000 to June 2003).

National Science Foundation, Earth Sciences, Tectonics:

"North American APW During the Jurassic: An Answer from the Black Hills", \$140,000 (June 2000 to June 2003).

Joint Oceanographic Institutions/ U.S. Science Advisory Committee:

"Magnetic fabrics, paleomagnetism, and magnetic mineralogy of Nankai Trough Sediments", Aug 2000-July 2002, \$19,407.

National Science Foundation, Atmospheric Sciences, ESH: (Co-PI with Doug Clark, WWU)

"Pilot study: Multiparameter investigation of a deep, pre-late Wisconsin bog in the central Sierra Nevada, California", Aug 2000-July 2001, \$40,965

National Science Foundation, Earth Sciences, Geophysics:

"Magnetofossils in marine sediments: Rock magnetic experiments on artificial and natural samples": \$90,295 (April 1998 to March 2001).

National Science Foundation, Ocean Sciences, Marine Geology & Geophysics:

"Magnetic anisotropy and sediment geomagnetism of active accretionary prisms and décollements: evaluating the effects of Fe-oxide diagenesis" \$161,195 (May. 1997- April. 2001).

National Science Foundation, Earth Sciences, Instruments and Facilities:

"Acquisition of a Cryogenic Magnetometer for Western Washington University's Paleomagnetism Lab": \$106,278 (Feb 1998 – Jan. 2001).

Joint Oceanographic Institutions/ U.S. Science Advisory Committee:

"Magnetic fabrics and sediment geomagnetism of the Costa Rica Margin", May 1997-Dec. 1998, \$20,000.

Joint Oceanographic Institutions/ U.S. Science Advisory Committee:

"Mineral Fabrics and Magnetic Mineralogy of the Barbados Accretionary Prism" 1996-1997 \$23,523.

Joint Oceanographic Institutions/ U.S. Science Advisory Committee:

"Microstructural Fabrics in the Cascadia Accretionary Prism Characterized by Mineral Preferred Orientation in Leg 146 Samples" 1993-1994, \$21,602.

### **Publications:**

(\* for graduate student co-author, \*\* for undergraduate student co-author)

#### **(In review)**

Dorsey, R.J., B.A. Housen, S.U. Janecke, C. Mark Fanning, A.L.F. Spears, 200x, Stratigraphic record of basin development along a transtensional plate boundary: Late Cenozoic Fish Creek-Vallecito Basin, southern California, submitted GSAB, Sept 2009

Janecke, S.U., R.J. Dorsey, A.N. Steely, S.M. Kirby, A. Lutz, B.A. Housen, B. Belgrade, V. Langenheim, T. Rittenhour, D. Forand, 200x, High geologic slip rates since Early

Pleistocene initiation of the San Jacinto and San Felipe Fault zones in the San Andreas fault system, Southern California, USA, submitted to GSA Special Papers, 6/2009.

**(In press)**

**Published**

- (36) Sager, W.W., B.A. Housen, L.M. Linville\*\*, 2008, Paleomagnetic and rock magnetic measurements on Hole 1301B basaltic samples, *in* Fisher, A.T., Urabe, T., Klaus, A. and the Expedition 301 Scientists, Proc. IODP, 301, College Station, TX, doi:10.2204/iodp.proc.301.204.2008, 1-22.
- (35) Titus, S.J., B. Housen, B. Tikoff, 2007, A kinematic model for the Rinconada fault system in central California based on structural analysis of *en echelon* folds and paleomagnetism, J. Structural Geol, 29, 961-982.
- (34) Brown, E.H., Housen, B.A., and Schermer, E.R., 2007, Tectonic evolution of the San Juan Islands thrust system, Washington, *in* Stelling, P., and Tucker, D.S., eds., Fire, Faults, and Floods: Geological Field Trips in Washington State and Southwest British Columbia: Geol. Soc. Amer. Field Guide , p. 143-177, doi: 10.1130/2007.fld009(08).
- (33) Dorsey, R.J., Fluette, A.\*, McDougall, K.A., Housen, B.A., Janecke, S.U., Axen, G.J., Shirvell, C.R.\*, 2007, Chronology of Miocene-Pliocene deposits at Split Mountain Gorge, southern California: A record of regional tectonics and Colorado River evolution, Geology, 35, 57-60.
- (32) Kirby, S.M.\*, Janecke, S.U., Dorsey, R.J., Housen, B.A., Langenheim, V, McDougall, K., Steely, A.N.\*, 2007, Pleistocene Brawley and Ocotillo Formations: Evidence for Initial Strike-Slip Deformation along the San Felipe and San Jacinto Fault Zones, Southern California, J. of Geology, 115, 21-42.
- (31) Lutz, A.T.\*, Dorsey, R.J., Housen, B.A., Janecke, S.U., 2006, Stratigraphic Record of Pleistocene Faulting and Basin Evolution in the Borrego Badlands, San Jacinto Fault Zone, Southern California, Geol. Soc. Amer. Bull., 118, 1377-1397, doi: 10.1130/B25946.1
- (30) Housen, B. A., and B. M. Moskowitz, 2006, Depth distribution of magnetofossils in near-surface sediments from the Blake/Bahama Outer Ridge, western North Atlantic Ocean, determined by low-temperature magnetism, J. Geophys. Res., 111, G01005, doi:10.1029/2005JG000068
- (29) Housen, B.A. and Dorsey, R.J., 2005, Paleomagnetism and Tectonic Significance of Albian and Cenomanian Turbidites, Ochoco Basin, Mitchell Inlier, Central Oregon, J. Geophys. Res., 110, B07102, doi:10.1029/2004JB003458.
- (28) Beck, M.E., Jr., and Housen, B.A., 2005, Comment on "Paleomagnetism and geochronology of the Ecstall pluton in the Coast Mountains of British Columbia: Evidence for local deformation rather than large-scale transport" by R. F. Butler et al., J. Geophys. Res., 110, B01101, doi:10.1029/2004JB003346.
- (27) Hayman, N.W., Housen, B.A., Cladouhos, T.T., and Livi, K., 2004, Magnetic and clast fabrics as measurements of grain-scale processes within the Death Valley shallow-crustal detachment faults, J. Geophys. Res. 109, B05409, doi:10.1029/2003JB002902.
- (26) Beck, M.E., Jr. and Housen, B.A., 2003, Absolute velocity of North America during the Mesozoic from paleomagnetic data, Tectonophysics, 377, 33-54.
- (25) Fawcett, T.C.\*, Burmester, R.F., Housen, B.A. and Iriondo, A., 2003, Tectonic implications of magnetic fabrics and remanence in the Cooper Mountain Pluton, North Cascade Mountains, Washington, Can. J. Earth Sci., 40, 1335-1356.
- (24) Housen, B.A., Beck, M.E. Jr., Burmester, R.F., Fawcett, T., Petro, G.\*, Sargent, R.\*\*, Addis, K.\*, Curtis, K.\*\*, Ladd, J.\*, Liner, N.\*, Molitor, B.\*, Montgomery, T.\*\*, Mynatt, I.\*\*, Palmer, B.\*, Tucker, D.\*, and White, I.\*, 2003, Paleomagnetism of the Mt. Stuart Batholith revisited again: What has been learned since 1972?, Amer. J. Science, 303, 263-299.

- (23) Mynatt, I.\*\*, Housen, B.A., and Beck, M.E. Jr., 2003, Late Cretaceous paleogeography of Wrangellia: Paleomagnetism of the McColl Ridge Formation, southern Alaska, revisited: Comment, *Geology*, 31, e13.
- (22) Beck, M.E., Jr., Burmester, R.F., and Housen, B.A., 2003, The red bed controversy revisited: shape analysis of Colorado Plateau units suggests long magnetization times, *Tectonophysics*, 362, 335-344.
- (21) Housen, B.A., and Kanamatsu, T., 2003, Magnetic Fabrics from the Costa Rica Wedge: Sediment Deformation During the Initial Dewatering and Underplating Process, *Earth Planet. Sci. Letters*, 206, 215-228.
- (20) Beck, M.E., Jr. and Housen, B.A., 2003, Pre-drift extension of the Atlantic margins of North America and Europe based on paths of Permo-Triassic apparent polar wander, *Geophys. J. International*, 152, 1-10.
- (19) Housen, B., and Beck, M., 1999, Testing Terrane Transport: An Inclusive Approach to the "Baja-BC" Controversy, *Geology*, v. 27, 1143-1146.
- (18) Zhao, X., Housen, B. and Solheid, P., 1998, Magnetic Properties of Leg 158 Cores: the origin of remanence and its relation to alteration and mineralization of the active TAG mound, *Proc. ODP, Sci. Res.*, 158, 337-351.
- (17) Brückmann, W., Moran, K., and Housen, B., 1997, Directional properties of P-wave velocities and acoustic anisotropy in different structural domains of the northern Barbados Ridge accretionary prism complex, *Proc. ODP, Sci. Res.*, 156, 115-124.
- (16) Housen, B.A., 1997, Magnetic fabrics of the Barbados accretionary prism, *Proc. ODP, Sci. Res.*, 156, 97-105.
- (15) Maltman, A.J., Labaume, P., and Housen, B.A., 1997, Structural geology of the décollement at the toe of the Barbados accretionary prism, *Proc. ODP, Sci. Res.*, 156, 279-292.
- (14) Fisher, A.T.; Zwart, G.; Shipley, T.; Ogawa, Y.; Ashi, J.; Blum, P.; Brueckmann, W.; Filice, F.; Goldberg, D.; Henry, P.; Housen, B.; Jurado, M. J.; Kastner, M.; Labaume, P.; Laier, T.; Leitch, E.; Maltman, A.; Meyer, A.; Moore, J. C.; Moore, G.; Peacock, S.; Rabaute, A.; Steiger, T.; Tobin, H.; Underwood, M.; Xu, Y.; Yin, H.; Zheng, Y., Relation between permeability and effective stress along a plate-boundary fault, Barbados accretionary complex, 1996, *Geology*, v. 24, p. 307-310.
- (13) Housen, B.A., Banerjee, S.K., Moskowitz, B.M., 1996, Low temperature magnetic properties of siderite and magnetite in marine sediments, *Geophys. Res. Lett.*, 23, 2843-2846.
- (12) Housen, B.A., and Musgrave, R.J, 1996, Rock-magnetic signature of gas-hydrates in accretionary prism sediments, *Earth Planet. Sci. Lett.*, 139, 509-519.
- (11) Housen, B.A., Tobin, H.J., Labaume, P., Leitch, E.C., Maltman, A.J., and Leg 156 Science Party, 1996, Strain decoupling across the decollement of the Barbados accretionary prism, *Geology*, 24, 127-130.
- (10) Housen, B.A., and Sato, T., 1995, Magnetic anisotropy fabrics from the Cascadia accretionary prism, *Proc. Ocean Drilling Program, Sci. Results*, 146, Texas A&M University, College Station, TX, 233-254.
- (9) Housen, B.A., van der Pluijm, B.A., and Essene, E.J., 1995, Plastic behavior of magnetite and high strains obtained from magnetic fabrics in the Parry Sound shear zone, Ontario Grenville Province, *J. Struct. Geol.*, 17, 265-278.
- (8) Labaume, P., Henry, P., Rabaute, A., Ogawa, Y., Shipley, T., Blum, P., Ashi, J., Brückmann, W., Filice, F., Fisher, A., Goldberg, D., Housen, B., Jurado, M.-J., Kastner, M., Laier, T., Leitch, E., Maltman, A.J., Meyer, A., Moore, G.F., Moore, J.C., Peacock, S., Steiger, T.H., Tobin, H.J., Underwood, M.B., Xu, Y., Yin, H., Zheng, Y., Zwart, G., 1995, Circulation et suppression de l'eau interstitielle dans le prism d'accrétion nord-Barbade: résultats du Leg ODP 156, *C.R. Acad. Sci. Paris, ser II A*, 320, 977-984.
- (7) Moore, J.C., Shipley, T.H., Goldberg, D., Ogawa, Y., Filice, F., Fisher, A., Jurado, M.-J., Moore, G.F., Rabaute, A., Yin, H., Zwart, G., Brückmann, W., Henry, P., Ashi, J., Blum, P., Meyer, A., Housen, B., Kastner, M., Labaume, P., Laier, T., Leitch, E., Maltman, A., Peacock, S., Steiger, T., Tobin, H.J., Underwood, M.B., Xu, Y., Zheng, Y., 1995,

- Abnormal fluid pressures and fault-zone dilation in the Barbados accretionary prism: Evidence from logging while drilling, *Geology*, 23, 605-608.
- (6) Carson, B.; Westbrook, G. K.; Musgrave, R. J.; Ashi, J.; Baranov, B.; Brown, K.; Camerlenghi, A.; Caulet, J. P.; Chamov, N.; Clennell, M. B.; Cragg, B.; Dietrich, P.; Foucher, J. P.; Housen, B.; Hovland, M.; Jarrard, R.; Kastner, M.; Kopf, A.; MacKay, M.; Moore, J. C.; Moran, K.; Parkes, R. J.; Sample, J.; Sato, T.; Scream, E.; Tobin, H.; Whiticar, M.; Zellers, S., 1993, ODP Leg 146 examines fluid flow in Cascadia margin, *Eos, Transactions, American Geophysical Union*, v. 74, p. 345-347.
  - (5) Housen, B.A., Richter, C., and van der Pluijm, B.A., 1993, Composite magnetic anisotropy fabrics: experiments, numerical models, and implications for the quantification of rock fabrics, *Tectonophysics*, 220, 1-12.
  - (4) Housen, B.A., van der Pluijm, B.A., Van der Voo, R., 1993, Magnetite dissolution and neocrystallization during cleavage formation: paleomagnetic study of the Martinsburg Formation, Lehigh Gap, Pennsylvania, *J. Geophys. Res.*, 98, 13,799-13,813.
  - (3) Richter, C., van der Pluijm, B.A., and Housen, B.A., 1993, The quantification of crystallographic preferred orientation using magnetic anisotropy, *J. Struct. Geol.*, 15, 113-116.
  - (2) Housen, B.A., and van der Pluijm, B.A., 1991, Slaty cleavage development and magnetic anisotropy fabrics, *J. Geophys. Res.*, 96, 9937-9946.
  - (1) Housen, B.A., and van der Pluijm, B.A., 1990, Chlorite control of correlations between strain and anisotropy of magnetic susceptibility, *Phys. Earth Planet. Inters.*, 61, 315-323.

#### **Edited Volume:**

Guest Editor, *Advances in Paleomagnetism and Tectonics of Active Margins: In Honor of the Retirement of Myrl E. Beck, Jr.*, 2000, *Tectonophysics*, v. 326, 220 pp.

#### **Non-refereed reports, contributions to books, or popularizations:**

- Housen, B.A., 2002, Ground penetrating radar (GPR) investigation of the subsurface geology in the vicinity of Crab Creek, Grant County, WA, report to Grant County PUD, 56 pp.
- Housen, B.A. and Burmester, R.F., 2006, Magnetic Properties of Mars Regolith Simulant, report to Geohazards Consultants International, 9 pp.
- Kimura, G., Silver, E., Blum, P., et al. (Housen, B. with 25 others), 1997, *Proc. Ocean Drilling Program, Initial Reports*, 170, College Station, TX (Ocean Drilling Program).
- Leg 156 Scientific Party (written on their behalf by B.A. Housen), 1995, CORKing a plate boundary fault, *Geotimes*, 40, no. 5, 21-23.
- Shipley, T., Ogawa, J., Blum, P., et al. (Housen, B. with 25 others), 1995, *Proc. Ocean Drilling Program, Initial Reports*, 156, College Station, TX (Ocean Drilling Program), 301pp.
- Westbrook, G.K., Carson, B., Musgrave, R.J., et al. (Housen, B. with 24 others), 1994, *Proc. Ocean Drilling Program, Initial Reports*, 146, College Station, TX (Ocean Drilling Program), 611pp.

#### **Abstracts of conference presentations:**

##### **2009**

- Baugh, B.F.\*, B.A. Housen, R.F. Burmester, 2009, Paleomagnetism and rock magnetism of remagnetized carbonate rocks from the Helena Salient, western Montana, *Abstracts with Programs, Geol. Soc. Amer* 41, no 1.
- Housen, B.A., and L. Jovane, 2009, Monitoring impacts of mass-transit vehicles on particulate matter concentrations in urban environments using magnetic properties of tree leaves: pilot study of bus and bike routes in Bellingham, WA, *Abstracts with Programs, Geol. Soc. Amer* 41, no 1.
- Miller, B.\*\* and B.A. Housen, 2009, Paleomagnetism of the Beckler Peak stock, N. Cascades, WA, *Abstracts with Programs, Geol. Soc. Amer* 41, no 1.
- Peryam, T.C., R.J. Dorsey, I. Bindeman, B. Housen, J. Palandri, 2009, Stable-isotope and paleosol data from the Plio-Pleistocene Fish Creek-Vallecito Basin, southern California:

- new insights into regional tectonics and paleoclimate, Abstracts with Programs, Geol. Soc. Amer 41, no 1.
- Polster, S.\*\*, R. Burmester, B. Housen, 2009, Chemical and magnetic properties of proposed Martian regolith simulant, Abstracts with Programs, Geol. Soc. Amer, 41, no 4.
- Roeske, S.J., B.A. Housen, S. Gallen\*, K. O'Connell\*, 2009, Late Cretaceous and Paleocene displacement of terranes along the northern Cordillera margin, Abstracts with Programs, Geol. Soc. Amer 41, no 1.
- Suczek, C.A., D.H. Clark, D.M. Hirsch, B.A. Housen, 2009, Changes in geology summer field camp at Western Washington University and their effects on faculty and students, Abstracts with Programs, Geol. Soc. Amer 41, no 1.

### **2008**

- Housen, B.A., R.J. Dorsey, S.U. Janecke, M.E. Oskin, 2008, **(invited)**, Paleomagnetism and magnetostratigraphy of late Cenozoic sedimentary rocks in the western Salton Trough, CA, EOS Trans AGU, 88
- Housen, B.A., S.M. Roeske, S.F. Gallen\*, K. O'Connell\*, 2008, Paleomagnetism of the Paleocene Ghost Rocks, Kodiak Islands, Alaska: Implications for Paleocene Pacific-Basin/North America plate configurations, EOS Trans AGU, 88
- Housen, B., A. Wiser\*, 2008, Paleomagnetism, rock magnetism, and magnetic fabrics of sediment cores from the Fraser River Delta, offshore Vancouver, BC (Canada), Intl. Conf. Rock Magnetism, p48.
- Oskin, M., K. Le, R. Dorsey, B. Housen, T. Peryam, 2008, Plio-Quaternary detrital <sup>10</sup>Be paleo-erosion rates from the eastern Peninsular Ranges, California, EOS Trans AGU, 88
- Peryam, T., R. Dorsey, I. Bindeman, B. Housen, 2008, Preliminary Plio-Pleistocene stable-isotope and paleosol data from the Fish Creek-Vallecito basin, southern California: insights into paleoclimate from pedogenic carbonate, EOS Trans AGU, 88.

### **2007**

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