

UNIVERSITY OF COLORADO

Colorado Springs, Colorado 80918

Thomas P. Huber

Curriculum Vitae

PERSONAL DATA: Date of Birth: September 18, 1947

Home Address: 1631 N. Cascade Ave.
Colorado Springs, CO 80907
Telephone: (719) 4713608 (Home) (719) 2553790 (Office)
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EDUCATION:

Ph.D. (Geography)
University of Colorado
Boulder, Colorado (May 1980)

M.A. (Geography)
Syracuse University
Syracuse, New York (December 1976)

B.S. (Geography)
U.S.A.F. Academy, Colorado (June 1969)

PRESENT POSITION:

Professor
Department of Geography & Environmental Studies
University of Colorado, Colorado Springs (1981-present)

Director
Image, Map, and Geographic Education (IMAGE) Lab
University of Colorado, Colorado Springs (1987-1997)

Chair
Geography and Environmental Studies (1989-95, 1997-98, 1999-00)

FORMER EMPLOYMENT:

Dean of the Graduate School, UCCS (2005-2007)

Associate Vice Chancellor of Research, UCCS (2005-2007)

Assistant Professor
Department of Geography
Colgate University (1980-1981)

Assistant Professor
Department of Economics, Geography and Management (1977-1980)
U.S. Air Force Academy, Colorado

COURSES TAUGHT: GES at UCCS

GES 1000 Environmental Systems: Climate, Soils, and Vegetation

GES 101 Environmental Systems: Landforms
GES 105 Map and Compass
GES 305 Cartography
GES 3250 Climate Change
GES 3830 Geography of Colorado
GES 4000/5000 Statistical Analysis in Geography
GES 405 Advanced Cartography (Geographic Information Systems)
GES 406/Geog 506 Introductory Remote Sensing
GES 409/Geog 509 Advanced Remote Sensing (Image Analysis)
GES 4110 Field Techniques
GES 4170 Writing Place
GES 431/531 Geomorphology
GES 4320/5320 Mountain Environmental Systems
GES 4340/5340 Soils
GES 470 Environmental Perception

At Other Institutions:

Field Techniques in Environmental Science (Boulder)
Ecosystems Institute of the Pikes Peak Region (Colorado College)
Physical Geology
Mountain Geomorphology
Mountain Climatology (Air Force Academy)
Economic Geography
Physical Geography
Geomorphology (Colgate University)

BOOKS and MONOGRAPHS:

Hayden's Landscapes Revisited -- The Drawings of the Great Colorado Survey. University Press of Colorado, 2016. (<http://haydenslandscapes.com/>)

Discovering Place --A UCCS Field Guide. University of Colorado, Colorado Springs, 2014, (editor w/ Carole Huber).

An American Provence. University Press of Colorado, 2011.

Colorado -- An Aerial Geography of the Highest State, Western Reflections Publishing, 2002. (w/Jim Wark).

The Alaska Highway -- A Geographical Discovery, University Press of Colorado, 2000. (w/ Carole Huber).

Colorado Byways -- A Guide through Scenic and Historic Landscapes, University Press of Colorado, 1997.

The San Luis Valley of Colorado - A Geographical Sketch, Hulbert Press, 1996. (w/ Robert Larkin).

Colorado - The Place of Nature, The Nature of Place, University Press of Colorado, 1993.

Dictionary of Concepts in Physical Geography, Greenwood Press, 1988. (w/ Robert Larkin and Gary Peters).

REFEREED PUBLICATIONS:

- "Informal Trail Creation: Hiking, Trail Running, and Mountain Bicycling in Shortgrass Prairie," *Journal of Sustainable Tourism*, Jan. 12, 2016 (w/ D. Havlick, E. Billmeyer, B. Vogt and K. Rodman).
- "Potential Radon Release during Fracking in Colorado," *Proceedings of the 2013 International AARST Symposium, American Association of Radon scientists and Technologists*, 1, (2013) pp. 20-27, (w/ Jim Burkhart and George Bolling).
- "John Burroughs" *Modern American Environmentalists*, Johns Hopkins University Press, 2009.
- "In This Issue – Symposium on Water Issues," *Comparative Technology Transfer and Society*, 4 (3), 2006, pp. viii – xi.
- "Spectral Signatures in the Classroom" *Journal of Geography*, 103 (1) (2004), pp. 38-42.
- "The Pikes Peak Highway as a Case of Environmental Conflict" *Papers of the Applied Geography Conference*, 26 (2003), pp. 408-415.
- "Campus-Based Geographic Learning: A Field Oriented Teaching Scenario" *Journal of Geography*, 102 (5) (2003) (w/ Steve Jennings).
- "Urban Environmental Justice Indices," *The Professional Geographer*, 54 (3) (2002) (w/ J. Harner, K. Warner, J. Pierce)
- "Introduction to Map and Compass" in *50 Ways to Lose Your Lectern*, C. Staley ed., Thomson/Wadsworth, pp. 168-169 (2002)
- "A Grid Upon the Earth," *The Amicus Journal*, 23 (1), (2001), (w/ Jim Wark).
- "Defining the Southwest -- the Use of Geographic Information Systems for Regional Definition," *Journal of the Southwest*, 40 (2) (1998) (w/ R. Larkin and C. Huber).
- "A Point in Time -- Two Points in Place," *Baile*, 10, (1995).
- "Integrated Remote Sensing and GIS Techniques for Elk Habitat Management," *Journal of Environmental Systems*, 22 (4), (1994).
- "Late Holocene Climate History in Eastern El Paso County, Colorado," *Southwestern Lore*, 59 (1) (1993), (w/ T. Wynn, R. McDonald, and L. Cummings).
- "The Correlation of Indoor Radon Concentration to Commonly Available Geologic Data," *Environmental Management*, 17 (2), (1993), (w/ J. Burkhart).
- "Initial Analysis of Landsat TM Data for Elk Habitat Mapping," *International Journal of Remote Sensing*, 11 (5), (1990), (w/ K. Casler).
- "Water Use and Availability - A Case Study of Colorado Springs," in D. Hill, ed., *Placing Geography in the Curriculum*, Center for Geographic Education: Boulder, CO, (1988), (with R. Rinne).

- "Soil Erosion Study Through Simulation: An Educational Tool," *Journal of Environmental Education*, 18 (3), (1987), (with K. Falkenmayer).
- "Anthropic Erosion: An Example of the Holistic Approach," *Journal of Environmental Systems*, 15 (3), (1985/1986).
- "Late Pleistocene Glaciation of Pikes Peak, Colorado, U.S.A.," *The Mountain Geologist*, 22 (3), (1985), (with P. Grogger).
- "Early Woodland Occupation at Jackson Creek," *Southwestern Lore*, 51 (1), (Mar. 1985): 313, (with T. Wynn and R. McDonald).
- "The Use of Wood as Fuel in North America: Prospects, and Problems," *Journal of Environmental Systems*, 14 (4), (1984/1985), (with E. Grunfest and L. LapalmeRoy).
- "Snow Avalanche Modification of Subalpine Soils, San Juan Mountains, Colorado," *Great Plains Rocky Mountain Geographical Journal*, 12 (1984).
- A Comparison of the Soil Conservation Service and Empirical Models of Flood Hydrology: Colorado Springs* Center for Community Development and Design, Working Paper #1, (1984).
- "Political Implications of the New Federalism: Flood and Avalanche Hazards in Colorado," *Environmental Management*, 7 (6) (Nov. 1983): 505-510, (with E. Grunfest).
- "Remote Sensing in Environmental Education," *Journal of Environmental Education*, 14 (3) (Spring 1983).
- "The Geomorphology of Subalpine Snow Avalanche Runout Zones: San Juan Mountains, Colorado," *Earth Surface Processes*, 7 (2) (March 1982).
- "Snow Avalanche Zone Mapping Using High Altitude Imagery," *Proceedings of the Middle States Division, AAG*, (Oct. 1980): 1720.
- "Land Use Mapping: An Exercise in Remote Sensing Applications," *Journal of Geography*, 79 (March 1980): 112-115, (with J. Christenson).

NON-REFEREED PUBLICATIONS:

- Soil Survey Report, for Colorado Springs Utilities Archaeological Survey, 2001.
- "El Paso County Natural Hazards Clearinghouse," published on the Web at (<http://web.uccs.edu/geogenvs/hazards/main.htm>), 1999.
- Cripple Creek Mining District, Field trip pamphlet, GP-RM AAG, Sep. 1999, w/ J. Harner.
- "Colorado," in Encarta, the on-line Encyclopedia for the MicroSoft Corporation, 1997.
- "John Burroughs," in American Environmentalists: A Selective Biographical Encyclopedia, 1850-1990, 1996 w/ Scarecrow Press.

- "John Wesley Powell," in American Environmentalists: A Selective Biographical Encyclopedia, 1850-1990, 1996 w/ Scarecrow Press.
- "A Prehistoric Burial at 5EP2200, El Paso County, Colorado," Feb. 6, 1996, Technical Report for Colorado Archaeological Permit No. 94-61. Soil and site analysis section, authored by W.R. Arbogast, F.D. Tierson, and A. Naranjo.
- "Colorado," in Academic American Encyclopedia, 1995. Grolier, Inc., Groton, CT.
- "Mountain Sheep Habitat Use in the Arkansas River Canyon - Part B:" Colorado Division Of Wildlife, Special Report, 1993. (w/ D. F. Reed, J. Vayhinger, and E. Brekke).
- "Mountain Sheep Habitat Use in the Arkansas River Canyon - Part A: Echo Canyon to Parkdale Railroad Siding," Colorado Division of Wildlife, Special Report, 1993. (w/ D. F. Reed, J. Vayhinger, and E. Brekke).
- "The Human/Physical Environment of the Pikes Peak Region: The Essence of Landscape in the 'New' West," Colorado Field Studies, Center for Geographic Education, UC-B, 1992.
- "Wild Blue Yonder: The U.S. Air Force Academy as Place," Colorado Field Studies, Center for Geographic Education, UC-B, 1992.
- "Surficial Materials Influence on Radon Production and Transport: A Colorado Example," Proceedings of the Technical Exchange Meeting on Assessing Indoor Radon Health Risks, Dept. of Energy, Grand Junction, CO, 1989.
- A Study of the Housing and Supportive Service Needs of the Low-Income Elderly Residents of El Paso County, Colorado, Myron Stratton Home, 1988, (with R. Larkin).
- The Environmental Hazards of Colorado Springs, Boulder: Natural Hazards Research Working Paper #54, (November, 1985). (w/ E. Grunfest).
- Environmental Hazards: Colorado Springs, Colorado, Colorado Springs: Center for Community Development and Design, (Summer 1985). (w/ E. Grunfest).
- Soil Survey Report for Woodland Park, Colorado. Woodland Park Master Plan, January, 1983.
- "Geomorphic Hazards of Green Mountain Falls, Colorado," in Green Mountain Falls Master Plan, Colorado Springs: Pikes Peak Area Council of Governments, 1980.
- Land Use Map: Green Mountain Falls, Colorado. Pikes Peak Area Council of Governments, Colorado Springs, Colorado, 1980.
- Avalanche and NonAvalanche Talus Slope Comparison, Colorado Front Range, USAFATR7714, USAF Academy, Colorado, 1977.

SELECTED PAPERS PRESENTED:

- " Hayden's Landscapes Revisited," Colorado College Aficianados, invited lecture,

Nov. 2014.

"Potential Radon Release During Fracking in Colorado," International AARST Symposium, American Association of Radon Scientists and Technologists, Springfield, IL, September 2013, w/ Jim Burkart and Andrew Drescher, 2013

"Hayden's Landscapes Revisited," Colorado Springs Pioneer's Museum, invited lecture, May 2012.

"The Pikes Peak Highway as a Case of Environmental Conflict," National Applied Geog., Nov. 2003.

"Environmental Basics Workshop," USAFA, Environmental Cooperation Council, Jan. 2001.

"A Web-Based Hazards Clearinghouse," Annual AAG National Meeting, Mar 1999.

"Cripple Creek Mining District and Florissant Fossil Beds," GP-RM AAG, Sep. 1999, w/ J. Harner.

"Soils and Archaeology -- Get Down and Dirty," Pikes Peak Archaeology Club, Jan. 1999.

"Accountability in Geography," Annual AAG National Meeting, Mar. 1998.

"GIS and Regional Definition -- the Southwest as a Case Study," Annual AAG National Meeting, Apr. 1996.

"Elk, Chimps, and Other Geographical Animals," Trinity College, Dublin University, Invited lecturer for Annual Geography Society Meeting, Mar. 1995.

"GIS and Image Processing as Tools for Bighorn Sheep Habitat Analysis," Annual AAG National Meeting, Apr. 1994.

"Chimpanzee Sex Differences in Gombe National Park, Tanzania," Summit Series, UCCS, 1992.

"Integrated Remote Sensing and GIS Techniques for Habitat Management," Annual AAG National Meeting, Apr. 1992.

"The Human/Physical Environment of the Pikes Peak Region - The Essence of Landscape in the 'New' West," International Geographic Union, Boulder, CO, 1992.

"Wild Blue Yonder - The U.S. Air Force Academy as Place," International Geographic Union, Boulder, CO, 1992.

"Defining Elk Habitat by Home Range Algorithms and Human Land Use," Regional AAG Meeting, Laramie, Sep. 1991.

"The Role of Remote Sensing and Geographic Information Systems in Regional Habitat Analysis," Annual AAG National Meeting, Apr. 1991.

- "The Perspective of the Global Change Initiative," Global Change Initiative Symposium, UC-B, Sep. 14, 1990.
- "GIS at UCCS," Colorado State GIS annual meeting, Colorado State University, Ft. Collins, Sep. 1989.
- "Surficial Materials Influence on Radon Production and Transport: A Colorado Example," DOE, Technical Exchange Meeting on Assessing Indoor Radon Health Risks, Grand Junction, Sep. 1989.
- "Elk Habitat Analysis - The Role of Remote Sensing," Annual AAG national meeting, Mar. 1989. (w/ Kirt Casler).
- "Where We Were - Where We're Going," National River Corridor and Stormwater Management Conference, Mar. 1989.
- "Enhancing Your Image," Great Plains - Rocky Mountain AAG meeting, Sep. 1988. (w/ Carole Huber).
- "Historical Landscapes of the British Isles," Great Plains - Rocky Mountain AAG meeting, Sep. 1988. (w/ Robert Larkin).
- "Map and Image Processing System: An Overview," Twentieth ASPRS-ACSM Symposium, Denver, Colorado, January 13, 1988. (Invited paper).
- "The CoasttoCoast Footpath: Historic Landscapes of Northern England," Western Conference on British Studies, Lincoln, Nebraska, October 31, 1987.
- "Water Use and Availability A Case Study of Colorado Springs," Western Place Conference, Boulder, Colorado, August 1987. (Invited paper).
- "Integrated Data Types for Soil Erosion Investigation," AAG Annual Meeting, Portland, April 1987.
- "Geomorphology Research Objectives for Future Flash Floods," Big Thompson Symposium, July 1986.
- "MicroDynamo: A Simulation Modeling Program," Annual Meeting of AAG, May 1986.
- "High Altitude Physical Geography," National Meeting of the NCGE, Breckenridge, CO., 1985, (with D. Miller).
- "Pikes Peak Glaciation: Final Report," Annual Meeting of AAG, April 1985.
- "Geomorphic Indicators of Snow Avalanche Activity," Great Plains Rocky Mountain Division, Association of American Geographers, annual meeting, October 1982. (Invited paper)
- "Glaciation of the Pikes Peak Region: Colorado, U.S.A.," Biennial meeting of the American Quaternary Association, June 1982, (with Paul Grogger).
- "Soil Development as an Avalanche Runout Zone Indicator," Annual meeting of AAG, April 1981.

"Snow Avalanche Zone Mapping Using High Altitude Imagery," Fall 1980 meeting of Middle States Division, Association of American Geographers, October 1980.

GRANTS and CONTRACTS:

\$5,877 Maps from Chinook Bookshop, 2004

\$20,000 from "Rebuild Colorado" to help fund LEED certification for Science Building, 2004.

\$23,044 (Co-PI) from the National Park Service to develop web-based paleontology course for the Florissant Fossil beds National Monument, 2003.

\$4,250 from the Center for the Study of Government and the Individual for producing a radon hazard map for Colorado Springs, summer 2003.

\$4,800 from City of Colorado Springs to help maintain the UCCS Natural Hazards web site, 2003-present.

\$11,927 from the Rocky Mountain Field Institute for an erosion mapping project on the Pikes Peak Highway corridor, Summer 2003.

\$4,000 from El Paso County for parks, open space, and trails GIS data creation for 4 county region, Spring 2003.

\$5,100 from El Paso County for habitat mapping for the Prebles Meadow Jumping Mouse along the Monument Creek drainage basin, Fall 2001.

\$353,377 Program of Excellence Grant from Colorado Commission on Higher Education For Geography and Environmental Studies GeoData Laboratory, June 2000.

\$13,000 grant from the University of Colorado Global Change program for the "Hazards Clearinghouse Project, (w/ M. Mack and T. Christensen) April 1998.

\$10,050 grant from the "Changing the Learning Paradigm Through Technology Initiative," University of Colorado, April 1998.

\$32,000 grant from the Environmental Science Research Institute for two multiple-copy software packages - PC ArcInfo and ArcView 3.0, 1997.

\$15,000 Fulbright Fellowship to University College Dublin to set up GIS program, 1995.

\$10,000 from City of Colorado Springs, "EIS on Pikes Peak Highway," June 1994-Dec. 1994.

\$24,000 from Colorado Division of Wildlife, "Upper Arkansas and Conejos Basins - Vegetation Analysis," June 1993-June 1994.

\$16,000 from Colorado Division of Wildlife, "Headwaters of the Arkansas Basin Vegetation Mapping Project," May 1992-May 1993.

\$2,050 from CRCW, "Chimpanzee Behavior and Resource Use in Gombe National Park, Tanzania," 1992-1993.

\$3,000 from Natural Hazards Research and Applications Information Center, "Development Proposal to Integrate a Hazards Curriculum in U.S. School Systems," Oct. 1992.

\$6,870 from National Forest Service, "Riparian Habitat Mapping Project," Jun. 1992-Oct. 1992

\$7,894 from Colorado Division of Wildlife, "Arkansas River Valley, Bighorn Sheep Habitat Analysis," Oct. 1991-Oct. 1992.

\$15,000 from National Endowment for the Humanities, proposal preparation grant, "Humanistic Perspectives on Science," for May 1991-Sep. 1991 (w/ Robert Larkin).

\$5,000 from President's Committee on Global Change and Environmental Quality, "GIS Contribution to an Integrated System for Assessing Env. Change in the Great Plains/Rocky Mountains," May 1991.

\$2,700 from Bureau of Reclamation for "Glen Canyon Study," Jan. 1990-Mar. 1990.

\$1,680 grant from UCCS Research and Creative Works grant program for "Elk Habitat Mapping", 1990.

\$98,948 (w/ matching funds from UCCS) from the National Science Foundation to establish the Southern Colorado Remote Sensing Center 1987-1989.

\$98,533 (CoPI, Asst. Project Director) from the National Science Foundation to establish an informal science education program at U.S. libraries 1987-1989. (Robert Larkin PI).

\$3,570 grant for: The Use of Integrated Data Types for Soil Erosion Investigations. (UCCS Research and Creative Works)

\$200,000 land grant for: Research Facility at UCCS Research Site on Pennsylvania Mountain, Colorado.

\$1,250 grant for: All hazards at a place, with Eve Gruntfest, (CCDD, Denver)

\$5,000 grant for: Pikes Peak Chronology, with Paul Grogger. (UCCS Research and Creative Works)

Total \$1,003,920

AWARDS:

2012 - University of Colorado, Thomas Jefferson faculty award winner

2010 - Winner of Individual Community Greenie Award from Veda – (w/ Carole Huber)

2009 - UCCS Campus Sustainability Award (w/ Carole Huber)

2000 - Colorado Commission on Higher Education Program of Excellence Award, Geography and Environmental Studies

1994 -1995 - Fulbright Fellowship for Teaching/Research at the University College, Dublin, Department of Geography (January - June 1995).

1993 to present - President's Teaching Scholar Award, University of Colorado.

1985 - UCCS Outstanding Teaching Award presented by the UCCS Alumni and Friends Association

SELECTED PROFESSIONAL ACTIVITIES:

Board member for Rocky Mountain Field Institute, 1990-2016

Board member Catamount Center of the Southern Rockies, 1998-present

Selected to be 1 of 3 faculty for CU system "Connections" audio lecture series, 2007

Board member for the USAFA, Environmental Cooperation Council, 1998-2008

Board member of the Western Museum of Mining and Industry, 2006-2007

SELECTED UNIVERSITY SERVICE:

Committee member of Privilege and Tenure system-wide committee (2016-present)

Co-chair, UCCS Provost Search Committee (2016)

Vice Chancellor Review Committee (2010-2016) – Chair (2015-2016)

Chair, Reappointment, Tenure, and Promotion Task Force (2007-2008)

Member, University President Search Committee (2005)

Member, University, P & T Committee (2003- 2005)

Member, LAS and UCCS Grievance Committee (2001-2004)

Member, Dean of College of Letters, Arts and Sciences Search Committee (2001-2002)

Member, Chancellor of University of Colorado, Colorado Springs Search Committee (2001 –2002)

Member, Campus Faculty Research Council (2001-present)

Member, President's Teaching Scholar Steering Committee (1995-present).

Member, LAS Dean's Review Committee (1993-1995) (2001 – 2004).

Member, UCCS Administrative Organization Committee (1999-2001)

Chair, LAS Teaching Support Committee which developed a program for identifying, developing and rewarding good teaching (1985-1990).