

Dr. S. Mary P. Benbow

- Associate Dean (Academic), The Clayton H. Riddell Faculty of Environment, Earth and Resources, University of Manitoba
- Associate Professor, Department of Environment and Geography
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Education

- PhD – 1987 – 1991 (Part-time) Geography, University of Liverpool, Faculty of Science
 - *Thesis: Modeling the dimethylsulphide (DMS) feedback loop.*
- BA (Hons) – 1983 – 1986 Geography, University of Liverpool, Faculty of Arts.

Employment

- 2007 – Present: Associate Dean (Academic), Clayton H. Riddell Faculty of Environment, Earth, and Resources
- 2005 and 2006: Nominated for the 3M Teaching Fellowship
- 2005 – 6: Acting Head, Department of Environment and Geography
- 2004 – 5: Vice-Provost, University College
- 2001: Promoted to Associate Professor
- 2001 – 2006: Faculty Associate, University Teaching Services (UTS)
- 1998 – 2001: Associate Director, University Teaching Services (UTS)
- 1997: Tenured
- 1990: Assistant Professor, Department of Geography, University of Manitoba.
- 1986 – 1990: University of Liverpool, Technician (Climatology and GIS) (Full-time)

Awards and Recognition

- 2003 – University of Manitoba Merit Award (Teaching)
- 2002 – Recognized in “Arts Celebrating Arts” (Faculty of Arts, University of Manitoba)
- 2001 – University of Manitoba Merit Award (Teaching)
- 2000 – Council for the Advancement and Support of Education, Bronze Medal in Publication Category for the UTS Newsletter (Editor)
- 1999 – Citations of Excellence in Application, Readability, and Originality from Anbar Electronic Intelligence for research articles published in Internet Research: Networking Applications and Policy.

Research

My primary research interests focus upon the social, cultural, and environmental implications of zoos and aquariums. This research looks at how these cultural institutions affect human perceptions of animals and conservation that in turn impact how animals are managed. This forms part of a broader field “Animal Geographies” that looks at the multifaceted roles that animals play in our lives and seeks to illuminate the complex relationships between humans and animals. This has encompassed how zoos have developed as spaces and places including how they utilize the Internet and their role as public spaces. This further extends to work zoo maps in the form of critical cartography in which zoo maps are examined as texts. My work also includes the zoo as cultural landscape and its implications for family zoo visitors through photo elicitation, visitor attitudes and behaviours regarding climate change, and the analysis of overheard zoo visitor conversations and visitor behaviour.

Peer-Reviewed Publications

- Hallman, B. C. and Benbow, S. M. P., 2010, ‘Seeing if you can catch the one picture that just makes it’: Placing Family Life Through Family Zoo Photography, pp. 10 – 30, in Hallman, B. C. (ed.) *Family Geographies: The Spatiality of Families and Family Life*, Oxford University Press (Don Mills, Ontario), 246 pp.
- Benbow, S. M. P. and Hallman, B., 2008, Reading the Zoo Map: Cultural Heritage Insights from Popular Cartography, *International Journal of Heritage Studies*, 14(1), pp. 30 – 42. Invited Manuscript.
- Hallman, B. C. and Benbow, S. M. P., 2007, Family Leisure, Photography and Zoos: Exploring the Emotional Geographies of Families, *Social and Cultural Geography*, 8(6), pp. 871 – 888.
- Hallman, B. and Benbow, S. M. P., 2006, Naturally Cultural: The Zoo as Cultural Landscape, *The Canadian Geographer*, 50(2), pp. 256-264.
- Benbow, S. M. P., 2004, Death and Dying at the Zoo, *Journal of Popular Culture*, 37(3), pp. 379-398
- Benbow, S. M. P., 2000, Zoos: Public Places to view Private Lives, *Journal of Popular Culture*, Vol. 33 (4), pp. 13-24.
- Benbow, S. M. P., 1998, File not Found: the problems of changing URLs for the World Wide Web, *Internet Research: Electronic Networking Applications and Policy*, Vol. 8, pp. 247-250.
- Benbow, S. M. P., 1996, A View through the Glass: Aquariums on the Internet, *Internet Research: Electronic Networking Applications and Policy*, Vol. 7, pp. 27- 31.
- Benbow, S. M. P., 1995, Getting Close from Far Away: Zoos on the Internet, *Internet Research: Electronic Networking Applications and Policy*, Vol. 5, pp. 32- 36.
- Benbow, S. M. P., 1994, Sulfur cycling in coastal upwelling systems and its potential effects on climate, in, *High latitude rain forests and associated*

- ecosystems of the west coast of the Americas: climate, hydrology, ecology and conservation*, R. Lawford and P. Alaback (eds.), Springer-Verlag.
- Henderson-Sellers, B., Henderson-Sellers, A., Benbow, S. M. P. and McGuffie, K., 1991, Earth - the water planet: a lucky coincidence?, pp. 80-89, in, *Scientists on Gaia*, Schneider, S. H. and Boston, P. J., (eds.), MIT Press, (Cambridge, Mass.) 433 pp.

Non-Peer-Reviewed Publications

- Benbow, S. M. P., 2010, Book Review – Tracking the changing world of polar bears, Winnipeg Free Press, February 6, 2010. (Review of *On Thin Ice: The Changing World of the Polar Bear* by Richard Ellis (Knopf)).
- Hallman, B. C. and Benbow, S. M. P., 2009, Learning Curve – Zoos offer great location for family bonding, Winnipeg Free Press, May 19, 2009.
- Benbow, S. M. P., 2007, Developing a Statement of Teaching Philosophy, pp. 5.12 – 5.15 in Friesen, E. and Kristjanson, C. (eds.) *Teaching at the University of Manitoba: A Handbook*.
- Benbow, S. M. P., 2007, Using the Student Evaluation of Educational Quality (SEEQ) pp. 5.17 – 5.21 in Friesen, E. and Kristjanson, C. (eds.) *Teaching at the University of Manitoba: A Handbook*.
- Benbow, S. M. P., 2007, Developing your Teaching Dossier pp. 5.26 – 5.30 in Friesen, E. and Kristjanson, C. (eds.) *Teaching at the University of Manitoba: A Handbook*.
- Benbow, S. M. P., 2005, Animal Geographies: Course Outlines, Activities and Materials, in, *Teaching About Animals*, Alger, J. M., Smith-Harris, T., McEntee, S., and Stallwood, K. W. (eds.), American Sociological Association
- Benbow, S. M. P., 2004, Book Review: *Animal Attractions: Nature on Display in American Zoos*, Hanson, E., (Princeton University Press), *Isis*, Vol. 95 (2), pp. 315
- Benbow, S. M. P., 2003, *Directing the Visitor: the History and Development of Zoo Maps*, Proceedings of the American Association of Zoos and Aquariums (AZA) Eastern Regional Conference, Milwaukee, Wisconsin
- Benbow, S. M. P., 2002, *Creating Your Own Teaching Philosophy Checklist*, *University of Manitoba Bulletin*, Vol. 36 (2), pp. 2
- Benbow, S. M. P., 2002, *Getting the Most Out of Your Last Class of the Year*, *University of Manitoba Bulletin*, Vol. 36 (6), pp. 10
- Benbow, S. M. P., 2001, *Reaching and Teaching University1 Students*, *University of Manitoba Bulletin*, Vol. 35 (8), pp. 8
- Benbow, S. M. P., 2001, *First Impressions Count: Ideas for the First Class*, *University of Manitoba Bulletin*, Vol. 35 (9), pp. 10
- Benbow, S. M. P., 2001, *Large Classes Pose Challenges and Opportunities for Teachers*, *University of Manitoba Bulletin*, Vol. 35 (10), pp. 10
- Benbow, S. M. P., 2001, *Promoting Active Learning Through Reading*, *University of Manitoba Bulletin*, Vol. 35 (11), pp. 10
- Benbow, S. M. P., 2001, *Electronic Teaching Dossiers – an introduction*, *University of Manitoba Bulletin*, Vol. 35 (12), pp. 10

- Benbow, S. M. P., 2001, Putting Your Teaching Dossier on the Web, University of Manitoba Bulletin, Vol. 35 (14), pp. 10.
- Benbow, S. M. P., 2000, Developing Our Students' Reading Habits, University of Manitoba Bulletin, Vol. 34 (1), pp. 4
- Benbow, S. M. P., 2000, Learning Outside the Box: Making Connections between Co-Curricular Activities and the Curriculum, University of Manitoba Bulletin, Vol. 34 (2), pp. 5
- Benbow, S. M. P., 2000, Teaching Our Students Effective Use of the World Wide Web, University of Manitoba Bulletin, Vol. 34 (3), pp. 5
- Benbow, S. M. P., 2000, Attendance in Higher Education, University of Manitoba Bulletin, Vol. 34 (5), pp. 4
- Benbow, S. M. P., 2000, What is University Teaching Services?, University of Manitoba Bulletin, Vol. 34 (6), pp. 4
- Benbow, S. M. P., 2000, Developing Your Teaching Dossier: A Systematic Approach to the Development and Maintenance of Your Teaching Dossier, published by UTS
- Benbow, S. M. P., 1999, Using the Internet as a cultural tool: Internet implications for zoos and aquariums, Internet Research: Electronic Networking Applications and Policy, Vol. 9, pp. 243-246.
- Benbow, S. M. P., 1999, Teaching Dossiers, University of Manitoba Bulletin, Vol. 33 (1), pp. 5
- Benbow, S. M. P., 1999, Ten Years of Teaching and Learning Workshops, University of Manitoba Bulletin, Vol. 33 (3), pp. 5
- Benbow, S. M. P., 1999, It's Not Too Late to Sign Up for UTS Workshops, University of Manitoba Bulletin, Vol. 33 (4), pp. 5
- Benbow, S. M. P., 1999, Bringing Research to Undergraduates: Some Applications of the Boyer Commission, University of Manitoba Bulletin, Vol. 33 (6), pp. 5
- Benbow, S. M. P., 1999, Understanding New University Students, University of Manitoba Bulletin, Vol. 33 (9), pp. 4
- Benbow, S. M. P., 1999, Computers in the Classroom: Ten Ways to Enhance Teaching, University of Manitoba Bulletin, Vol. 33 (10), pp. 5
- Benbow, S. M. P., 1999, A Course Outline Checklist, University of Manitoba Bulletin, Vol. 33 (11), pp. 4
- Benbow, S. M. P., 1999, Student's Writing: Improving a Valuable Skill, University of Manitoba Bulletin, Vol. 33 (11), pp. 5
- Benbow, S. M. P., 1999, 'Tis the Season to File, University of Manitoba Bulletin, Vol. 33 (12), pp. 4
- Benbow, S. M. P., 1999, Understanding New University Students, University Teaching Services Newsletter, Vol. 8 (1), pp. 1-3
- Benbow, S. M. P., 1999, Developing Your Statement of Teaching Philosophy, University Teaching Services Newsletter, Vol. 7 (3), pp. 6
- Benbow, S. M. P., 1998, Guerilla Tactics for PowerPoint Classes, University Teaching Services Newsletter, Vol. 7 (2) pp. 4-5
- Reprinted in Reflections, the newsletter for the Educational Development Office, University of Western Ontario, February, 1999

- Benbow, S. M. P., 1997, Surface Substrates, Elephant Foot Health and Suggestions, prepared for the Species Survival Plan (Elephants), Philadelphia, July 1997
- Benbow, S. M. P., 1996, Interior Environments in Zoos: A Model for Soil, Air and Water Resources, proceedings of the American Association of Zoos and Aquariums (AZA) Annual Conference, Honolulu, Hawaii
- Benbow, S. M. P., 1996, The Internet: A New Age for Zoos and Aquariums?, proceedings of the American Association of Zoos and Aquariums (AZA) Annual Conference, Honolulu, Hawaii
- Benbow, S. M. P., 1995, The Man Who Planted Trees, University Teaching Services Newsletter, Vol. 4 (2), pp. 7
- Benbow, S. M. P., 1993, Gaia, Mother Earth, and the Environment: the Challenge of Investigating a Theory, University of Manitoba Bulletin, October 21, 1993, pp. 7

Multimedia Projects

From 2000 – 2004, developed content and designed a variety of multimedia projects for John Wiley and Sons for a number of editions of Strahler, A. and Strahler, A. “Physical Geography: Science and Systems of the Human Environment” and “Introducing Physical Geography”.

Presentations

- January 2013, The Journey to Churchill exhibit – visitor perceptions of climate change, Impact of Climate Change on Parks, Protected Areas, and Tourism, Winnipeg, Manitoba.
- November 2008, Healthy Parks, Healthy People: Healthy Zoos, Healthy Families, Parks and Protected Areas Research Forum, Winnipeg, Manitoba.
- May 2006, Insights into the Emotional Geographies of Families: The Zoo as an Important Site for Building ‘Happy Families’, with Dr. B. Hallman, Second International and Interdisciplinary Conference on Emotional Geographies, Kingston, Ontario.
- September 2005, Animal Geographies Field Trip with Dr. B. Hallman, Prairie Division of the Canadian Association of Geographers (PCAG), Winnipeg, Manitoba.
- September 2004, Directing the Visitor: the History and Development of Zoo Maps, Canadian Association of Zoos and Aquariums (CAZA) Annual Conference, Winnipeg, Manitoba.
- April 2004, Picturing the Exotic Ordinary: Rare Domesticated Animals and the Representation of Farming, Popular Culture Association Annual Conference, San Antonio, Texas.
- April 2003, Directing the Visitor: the History and Development of Zoo Maps, American Association of Zoos and Aquariums (AZA) Regional Conference, Milwaukee, Wisconsin.
- August 2002, Gorilla Buildings and Gorillas Building, Archaeology of Zoos Network Conference, London, UK.

- November 2001, The Animals and Harry Potter, in collaboration with Dr. B. Austin-Smith, University College, University of Manitoba.
- April 2001, Death and Dying at the Zoo, Popular Culture Association Annual Conference, Philadelphia, Pennsylvania.
- July 2000, Robot Dogs and Virtual Fish: Artificial Life Forms as Windows to the Cultural Role of Animals, Millennial Animals Conference, University of Sheffield, UK.
- April 2000, Death and Dying at the Zoo, Representing Animals at the End of the Twentieth Century, University of Wisconsin – Milwaukee, Center for Twentieth Century Studies.
- March 2000, Death and Dying at the Zoo, University College.
- February 1999, Eye in the sky: the role of the Internet in the development of civil and commercial applications of remote sensing, the Students' Political Studies Conference "Civil and Military Application of Space Technology", The University of Manitoba.
- January 1998 - "The Man Who Planted Trees", University College.
- November 1998, Research in zoos and aquariums, Poster presentation – Showcase '98 Research in the social sciences and the humanities, University of Manitoba
- September 1996, Interior Environments in Zoos: a Model for Soil, Air and Water Resources, Poster presentation at the Annual meeting of the American Association of Zoos and Aquariums, Honolulu.
- September 1996 The Internet: a New Age for Zoos and Aquariums? Poster presentation at the Annual meeting of the American Association of Zoos and Aquariums, Honolulu.
- February 1996, Technology and Culture in Zoos: The Animals Inside the Machine", Fourth Interdisciplinary Seminar Series at the University of Manitoba on Technology and Culture.
- July 1995, Soil degradation: problems, analyses and solutions, Annual Meeting of the Association of Zoo Horticulturists and the American Association of Botanic Gardens and Arboreta, Montreal.
- September 1992, Sulfur cycling in coastal upwelling systems and its potential effects on climate, America's Inter-hemispheric Geo-Biosphere Organization (AMIGO), Victoria BC.

Research Funding

- 2014 Assiniboine Park Zoo – Sponsored Research – Post Occupancy Evaluation of Journey to Churchill \$7832.
- 2007 Strategic Program Development Fund, Earth: A User's Guide: A faculty-wide multidisciplinary first year course on planetary citizenship, \$8, 313.00 (as 2013 more than 680 students have enrolled in the course)
- 2006 UM/SSHRC, The photograph at the zoo: Family Building in Leisure Spaces, Places and Time with co-investigator Dr. B. Hallman, \$3,400
- 1999 Faculty Development Fund, University of Manitoba, to develop a book to guide the development, maintenance and use of teaching dossiers at The University of Manitoba, \$1,504.

- 1997 Research grant in lieu of salary, Office of Research Services, University of Manitoba) for research concerning the environmental, technological and cultural implications of zoos and aquariums, \$6,400.
- 1996 Urban Green Team, Government of Manitoba, Department of Urban Affairs to develop educational tools for the Assiniboine Park Zoo, Winnipeg, \$3,000.
- 1995 Urban Green Team, Government of Manitoba, Department of Urban Affairs to produce a computer-generated maps for the Assiniboine Park Zoo, Winnipeg, \$6,120.
- 1994 Professional Development Fund, University of Manitoba, for the Third Interdisciplinary Seminar Series on Chaos and Fractals, \$7,500.
- 1992 Royal Society of Canada, to present a paper at the meeting of America's Inter-hemispheric Geosphere Biosphere Organization, \$2,500.

Teaching

Since arriving at the University of Manitoba in 1990, I have taught over 60 undergraduate and graduate course offerings accommodating over 5,500 students. I have a strong commitment to teaching and focus on stimulating topics and materials, emphasize clear organization, and provide a welcoming and supportive teaching environment. In addition to the courses I have personally taught, I have also been involved in course and curriculum design such as the Riddell Faculty's multidisciplinary cultural landscape field school to Venice. I have taught a wide variety of courses but due to my administrative responsibilities teach two courses per year.

Further details regarding my teaching may be found in my teaching dossier available upon request. Course outlines, notes, and some assignments can be found at my web site (<http://home.cc.umanitoba.ca/~benbow>).

Teaching Responsibilities

A number of these courses have undergone significant change, have been renamed, or deleted:

- Earth: A User's Guide (EER 1000) (3 credit hours)
- Animal Geographies (GEOG 3860) (3 credit hours)
- Introduction to Physical Geography (GEOG 1290) (3 credit hours)
- The Geography of Tourism and Recreation (GEOG 2410) (6 credit hours)
- The Geography of Environmental Changes (GEOG 2620) (3 credit hours)
- Climatology (6 credit hours)
- Climatic Change (3 credit hours)
- Geographic Information Systems (3 credit hours)
- Advanced Methods in G.I.S. (3 credit hours)

Teaching Evaluations

The University of Manitoba uses the Student Evaluation of Educational Quality (SEEQ) to evaluate faculty and courses. It uses a Likert-scale from 1 (lowest) to 5 (highest) rating of over 30 questions. For my most recent courses my average scores over the last ten years or so to the summary question are provided below (where 1=very poor and 5=very good):

As an overall rating, I would say this instructor is:

- Earth: A User's Guide 4.5 – 4.8
- Animal Geographies 4.6 – 5.0
- Introduction to Physical Geography 4.6
- Geography of Environmental Changes 4.5 – 4.8
- Geography of Tourism 4.6 – 4.8

Graduate Student Supervision

- Currently Jill Bueddefeld, PhD, (co-advising with Christine van Winkle, Faculty of Kinesiology and Recreation Management) Multiple Qualitative Methods to Examine Free Choice Learning about Climate Change in Natural and Zoo Settings.
- 2003 Jocelyne Leger, M.A. Geography, An Evaluation of Site Specific Selection Methods in the Assiniboine Delta Region of Manitoba
- 2000 Arnie Waddell, M.A. Geography, A Spatial Analysis of Tourism Development on Hecla Island in Relation to Key Environmental Components
- 2000 Doug Hamilton, M.A. Geography, Land Use Change on the Assiniboine River: Resource Management Issues for Riparian Ecosystems in Southern Manitoba, Canada
- 1997 Danya Lougheide, M.A. Geography, Assessing Environmental Impacts in the Gulf of Paria, Trinidad: An Examination of Technological Applications and Data Availability
- 1997 Paul Cooley, M.A. Geography, Mapping the Nearshore Substrates and Hydrodynamics in Lakes
- 1995 Klaus Hochheim, M.A. Geography, Western Canada Spring Wheat Yield Estimation Using Weekly AVHRR NDVI Composite Data
- (I have also served on numerous PhD and Masters committees)

Faculty Development

My association with University Teaching Services (UTS) spanned from 1997 when I presented my first UTS workshop, from 1998 to 2001 as Associate Director and then to 2006 when I took on other administrative work. My duties have included editing the UTS Newsletter, writing a regular column for the U of M Bulletin and managing the peer consultation program. I have presented workshops over 80 times on a diverse array of topics including teaching dossiers, student evaluations, computer technologies, learning styles, work-life balance, and student-related issues. I have also created customized workshops for specific faculties and organizations on a variety of issues including teaching dossiers, student evaluations, and strategic planning.

University-Wide Service

- Senate Committee on Academic Computing, 2006
- Senate Sub-Committee to review the SEEQ, 2006
- Vice-Provost, University College, 2004-5
- Morton Lecture Committee, University College, 2001-4 (Chair 2003-4)
- Faculty Associate, University Teaching Services, 2001 – 2006
- Associate Director, University Teaching Services, 1998 – 2001
- Director, Peer Consultation Program, 1998 – 2001
- Senate, 1994 – 7
- Senate Discipline Committee, 1996
- Green Plan Grant Committee, 1992 – 1993

Faculty Service

- Associate Dean (Academic) 2007 – present
- Curriculum Committee, Clayton H. Riddell Faculty of Environment, Earth and Resources 2003 – present
- Tenure and Promotion Regulations Committee, Clayton H. Riddell Faculty of Environment, Earth and Resources 2003 – present
- Faculty of Arts (1990 – 2003) – numerous committees including Ad hoc Performance Evaluation Committee, Teaching Excellence Committee, Arts Regulations Appeals Committee, Arts Executive Committee, and numerous tenure, promotion, and appointments committees in Faculty of Arts departments.
- Numerous appointments committees in other Faculties including Engineering and Science

Departmental Service

- Acting Head, Department of Environment and Geography, 2005-6
- Associate Director, Centre for Earth Observation Science, 1994-97
- Director, Centre for Earth Observation Science, 1997-98
- Numerous departmental committees including curriculum, ad hoc curriculum working groups, staff and programs, budget and space, graduate studies, and exam review committee, 1991-present

Additional Service Activities

- Editorial Board, Mosaic: a journal for the interdisciplinary study of literature, 2001-present
- Board Member, Zoological Society of Manitoba, 1996-97