

# Francis Harvey

*Associate Professor, Department of Geography, University of Minnesota*

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## EDUCATION

**University of Washington, Seattle, Washington, Geography PhD** 1992-1996

Awarded PhD degree in May 1996, dissertation title, *Geographic Information Integration and GIS Overlay*

**University of Dortmund, Germany, Spatial Planning, Master's of Science (Diplom-Ingenieur)** 1984-1991

Received Diplom-Ingenieur degree in May 1991, master thesis title, *Detection of potential erosion in alpine pastures using a digital elevation model*

**University of Wisconsin, Madison, Wisconsin, Sociology** 1983-1984

Emphasis on quantitative sociology

## GRADUATE STUDENTS

### Current:

PhD: Emily Murai (Co-advisor)

Masters: Matthew McGuire, Elizabeth Connolly, Karyn Aviani

### Completed

PhD: Roxanne Ornelas, (May 2007)

Masters: Claude Hanhart (May 2003), Eric Marquardt (May 2007)

## PROFESSIONAL EXPERIENCE

**Associate Professor** 5/2004 - now

University of Minnesota, Department of Geography (on leave 2007)

**Senior Lecturer**

1/2007 - 12/2007

University of Leicester, Department of Geography

**Assistant Professor**

7/2001 - 5/2004

University of Minnesota, Department of Geography

**Assistant Professor**

8/1998 - 6/2001

University of Kentucky, Department of Geography

**Lecturer and Researcher**

8/1996 - 8/1998

Swiss Institute of Technology Lausanne (EPFL), Institute of Geomatics

**Research Assistant**

1/1996 - 6/1996

Comparative study of GIS use in low level radioactive waste siting projects

**Teaching Assistant**

9/1993-12/1996

GIS and cartography courses

**Teaching Assistant and Tutor**

1/1986 - 12/1988

English language program SPRING, Department of Planning, University of Dortmund, Germany

## RESEARCH GRANTS

**National Science Foundation**, Collaborative Research: Graduate Ethics Education for Future Geospatial Technology Professionals, \$46,661

**European Commission**, GDEG: Geographical Dimensions of European Governance, €80,000

- National Science Foundation**, Administrative Technologies and the Governance of Agrarian Reform: Liberal Modernization of the Polish Cadastral Infrastructure, 2005-2008, \$175,000
- Center for Transportation Studies**, University of Minnesota, Bicycle Commuter Route Choice, 2005-2006, \$63,000 (with Kevin Krizek and David Levinson)
- Graduate School, University of Minnesota**, Grant-in-Aid for Summer Research in Poland 2004, \$9425
- International Programs Office, University of Minnesota**, Travel Grant to attend the 2004 International Geographical Union Conference in Glasgow, United Kingdom, \$500
- Association of American Geographers**, Travel Grant to attend the 2004 International Geographical Union Conference in Glasgow, United Kingdom, \$1500
- Institute for Global Studies, College of Liberal Arts**, University of Minnesota, Planning of Counter-Infrastructure workshop, \$1000
- Association of American Geographers**, Travel Grant to attend the 2002 International Geographical Union Conference in Durban, South Africa, \$1500
- Federal Geographic Data Committee/University Consortium for Geographic Information Science**, Building the NSDI at the Base Establishing Best Sharing and Coordination Practices Among Local Governments, 2001 -2002, \$47,374
- College of Liberal Arts, University of Minnesota**, Infotech Fees Committee, Instructional Technology for Future Maps and Map Makers, 2001 - 2002, \$9,800
- National Science Foundation**, Planning Grant from the CISE/Digital Government Program, 2001, \$28,549
- University of Kentucky**, Summer Faculty Research Fellowship, 2001, \$5000
- Federal Geographic Data Committee/University Consortium for Geographic Information Science**, Potentials and Pitfalls of the National Spatial Digital Infrastructure, 2000 \$29,541
- University of Kentucky Research Foundation**, Reception and Transformation of Geographic Thought in the Germany and the US , 2000, \$3,557
- National Science Foundation**, Collaborative Efforts in GIS-IT Research and Pedagogy with Vietnam National University, 1999, \$10,850
- Varenius Project**, Seed Grant to develop research on semantic interoperability (with Prof. Werner Kuhn), 1998-1999 \$3000
- Varenius Project**, Travel Grant to participate in the Interop conference and I-20 workshop, December 1997, \$500
- UNIL/EPFL**, Collaborative Research Funds, Réseaux de Ingenieurs de SIG (with Prof. F. Golay and Prof. B. Berthoud), 1998, \$50,000
- ICA**, Workshop on Generalization, Travel Grant, 1997, \$250
- Graduate School, University of Washington**, Western European Dissertation Grant 1995, \$3500
- Association for Computing Machinery (ACM)**, Travel Grant to attend the Society and the Future of Computing Conference, Durango, Co., June 11 - 14, 1995, \$500
- US International Geographic Union (IGU)**, Travel Grant to attend the 1994 IGU Regional Meeting, Prague, Czech Republic, August 22-26, 1994, \$1500

## GRANTS AND AWARDS

- GISDATA Summer Institute, Best Research Proposal, (Group Award), 1996
- NCCIA, GISDATA Summer Institute, Young Scholar Award, 1996, \$1000
- Department of Geography University of Washington,, Ullman Award, 1996, \$150

## PUBLICATIONS

### Books

A GIS Primer (2008) Guildford Press, New York City.

### Special Issues of Journals Edited:

Harvey, F., Kwan, M. & Pavlovskaya, M. (2005) Critical GIS. *Cartographica*, 40(4)

Harvey, F. (2000) Editorial Introduction. Special Issue on Social Construction of GIS. *International Journal of Geographic Information Science*, 14 (8), 3.

### Peer-Reviewed Articles and Chapters (by year)

Tulloch, D. and Harvey, F. When Data Sharing Becomes Institutionalized: Best Practices in Local Government Geographic Information Relationships. *URISA Journal* 19 2: 51-59

- Harvey F., (2007) Is GI what we think it is? In A Car, G Griesebner and J Strobl (Eds), *Geospatial Crossroads @ GI\_Forum*. Proceedings of the First Geoinformatics Forum Salzburg (Heidelberg: Herbert Wichmann Verlag), pp 54-61. [P : conference proceedings]
- Harvey F., (2007) Just another private-public partnership ? Possible constraints on scientific information in virtual map browsers. *Environment and Planning B Planning and Design* 34 761-764.
- Harvey, F., & Tulloch, D. L. (2006). Local Government Data Sharing: Evaluating the Foundations of Spatial Data Infrastructures. *International Journal of Geographical Information Science*, 20(7), 743-768.
- Harvey, F. (2006) Reconfiguring Administrative Geographies in the United States. *ACME*, 4(1), 57-79.
- Harvey, F. (2006). Status Functions, Collective Intentionality: Matters of Trust for Geospatial Information Sharing. In M. Raubal, H. Miller, A. Frank & M. F. Goodchild (Eds.), *Geographic Information Science - Fourth International Conference, GIScience 2006*, Münster, Germany, September 2006 (Vol. 4197, pp. 145-152). Berlin, Germany: Springer Verlag.
- Harvey, F. and Wardenga, U. (2006). Evaluating the Influence of Alfred Hettner's System of Geography on Richard Hartshorne's The Nature of Geography. *Historical Geography*. 32, 422-440.
- Harvey, F. (2006) Elasticity for Civil and Political Society between the Cadastre and Land Tenure. *Information Technology and Development*. 12(4), 291 - 310.
- Harvey, F., Kwan, M. & Pavlovskaya, M. (2005) Introduction: Special Issue on Critical GIS. *Cartographica*, 40(4), 1-4.
- Harvey, F. (2005) Aligning or Matching? Cartographic Perspectives on Geographic Integration. *Proceedings of AutoCarto 2005*. (P)
- Harvey, F. (2005). The linguistic trading zones of semantic interoperability. *Re-presenting GIS*. P. F. Fisher and D. J. Unwin. Chichester, England, John Wiley and Sons: 43-55.
- Harvey, F. J., & Chrisman, N. R. (2004). The imbrication of geography and technology: The social construction of geographic information systems. In S. D. Brunn, S. L. Cutter & J. W. Harrington Jr. (Eds.), *Geography and Technology* (pp. 65-80). Dordrecht, Netherlands: Kluwer Academic Publishers.
- Harvey, F. (2003). Developing geographic information infrastructures for local government: The role of trust. *Canadian Geographer*, 47(1), 28-37. (P)
- Harvey, F. (2003). Preface: Transitions in U.S. Cartography and Geographic Information Science. *Cartography and Geographic Information Science*, 30(2), 95-98.
- Harvey, F. (2003, 10-16August2003). How Do Local Governments Share and Coordinate Geographic Information? Paper presented at the 21st International Cartographic Conference, Durban, South Africa.
- Harvey, F. (2003) Public Safety and GIS: What should certification accomplish? *URISA Journal*, 15(1), 15-20.
- Harvey, F. (2003) Knowledge and Geography's Technology. In: Anderson, Kay, Domosh, Mona, Pile, Steve, and Thrift, Nigel (Eds.) *Handbook of Cultural Geography* Beverly Hills: Sage.
- Harvey, F. and Brunn, S. (2002) Here, There, and Everywhere: Geoliminality and the Burden of Dasein. *Limen* 3, 2002(1), URL: <http://www.human.pefri.hr/cro/limen2.htm>. Last accessed: 28Mar2003.
- Harvey, F. (2002) Potentials and problems for the involvement of local government in the NSDI, Sixth Global Spatial Data Infrastructure Conference, Budapest, 16-19September2002.
- Cheesman, J., Dodge, M., Harvey, F., Jacobsen, D., & Kitchin, R. (2002). 'Other' Worlds: Augmented, Comprehensible, Non-Material Spaces. In P. Fisher & D. Unwin (Eds.), *Virtual Reality in Geography*. London: Taylor and Francis.
- Harvey, F. (2002). Processing Spatial Data. In J. Bossler, J. R. Jensen, R. McMaster, & C. Rizos (Eds.), *Manual of Geospatial Science and Technology* (pp. 450 -464). New York: Taylor and Francis.
- Harvey, F. (2002). Visualizing data quality through interactive metadata browsing in a VR environment. In P. Fisher & D. Unwin (Eds.), *Virtual Reality in Geography* (pp. 332-340). London: Taylor and Francis.
- Harvey, F. (2001). Constructing GIS: Actor Networks of Collaboration. *URISA Journal*, 13(1), 29 - 37.
- Harvey, F. (2000) Editorial Introduction. Special Issue on Social Construction of GIS. *International Journal of Geographic Information Science*, 14 (8), 3.
- Harvey, F., Battenfield, B. P., & Carson-Lambert, S. (1999). Integrating geodata infrastructures from the ground up. *Photogrammetric Engineering and Remote Sensing*, 65(11), 1287-1292.
- Harvey, F. (1999). Designing for interoperability: Overcoming semantic differences. In M. F. Goodchild, M. J. Egenhofer, R. Fegeas, & C. A. Kottman (Eds.), *Interoperating Geographic Information Systems* (pp. 85-98). Boston: Kluwer Academic Publishing.
- Adams, A. B., & Harvey, F. (1999). Habitat physical structure and *Arbutus menziesii* Status in Seattle, Washington. In A. B. Adams (Ed.), *The Decline of the Pacific Madrone* (pp. 50-66). Seattle: Pollard Group.

- Harvey, F., Kuhn, W., Bishr, Y., Pundt, H., & Riedemann, C. (1999). Semantic Interoperability: A Central Issue for Sharing Geographic Information. *Annals of Regional Science*, 33(2), 213-232.
- Harvey, F., Vauglin, F., & Bel Hadj Ali, A. (1998, 12-15 July 1998). Geometric Matching of Areas. Paper presented at the SDH '98, Vancouver, BC. Harvey, F. (1998).
- Harvey, F. (1998) Geographic integration: From holism to systems. In U. Wardenga & W. J. Wilczynski (Eds.), *Religion, Ideology and Geographic Thought* (pp. 153-162). Kielce, Poland: International Geographic Union.
- Harvey, F. (1998). National Cultural Influences on GIS Design. In M. Craglia & H. Onsrud (Eds.), *Geographic Information Research: Trans-Atlantic Perspectives* (pp. 55-68). London: Taylor & Francis.
- Harvey, F., & Chrisman, N. R. (1998). Boundary objects and the social construction of GIS technology. *Environment and Planning A*, 30(9), 1683-1694.
- Harvey, F., & Wardenga, U. (1998). The Hettner-Hartshorne connection: Reconsidering the process of reception and transformation of a geographic concept. *Finisterra*, 33(65), 131-140.
- Harvey, F. (1998). Designing for Interoperability. Overcoming Semantic Differences. In M. F. Goodchild & M. Egenhofer (Eds.), *GIS Interoperability*. Dordrecht: Kluwer.
- Chrisman, N. and Harvey, F. (1998) Extending the Classroom: Closed and Open Corpus Hypermedia Supported Learning, *Journal of Geography in Higher Education*. Vol. 22 (1), pp 11-18.
- Harvey, F. (1997). Improving Multi-Purpose GIS Design: Participative Design. In S. Hirtle & A. U. Frank (Eds.), *Spatial Information Theory. A Theoretical Basis for GIS* (pp. 313-328). Berlin: Springer Verlag.
- Harvey, F. (1997). Agreeing to disagree: The social construction of geographic information technology. In *GIS/LIS '97*, 1 (pp. 808-815). Cincinnati, OH: ASPRS/AAG/URISA/AM-FM.
- Harvey, F. (1997) National Cultural Differences in Theory and Practice. *Information, Technology, and People*. 10(2) 132-146.
- Harvey, F. (1997) From Geographic Holism to Geographic Information System. *Professional Geographer*, 49 (1) 77-85.
- Harvey, F., & Vauglin, F. (1997). No Fuzzy Creep! A clustering algorithm for controlling arbitrary node movement. In N. R. Chrisman (Ed.), *AutoCarto 13*, 5 (pp. 317-326). Seattle: ASPRS/ASCM.
- Harvey, F. and Vauglin, F. (1996) Geometric match processing: Applying multiple tolerances. *Proceedings, Seventh International Symposium on Spatial Data Handling*, pp. 4A.13 - 4A.29.
- Harvey, F. and Gross, B. (Eds.) (1996) *Forum on the Durango Declarations*. The Information Society, 12 (1).
- Harvey, F. (1995) National and organizational cultures in geographic information system design: a tale of two counties. *Proceedings, Twelfth International Symposium on Computer-Assisted Cartography (AutoCarto 12)*, pp. 197-206. Charlotte, NC.
- Harvey, F. (1994) Defining unmoveable nodes/segments as part of vector overlay: The alignment overlay. In Waugh, T. C., and Healey, R. C. (Eds.) *Advances in GIS Research*, Vol 1, pp. 159-176. London: Taylor & Francis.

#### **Non-refereed Articles, Conference, and Workshop Papers**

- Harvey, F. (2005) Semantics, Language and Geographic Information Interoperability. In Fisher, P. and Unwin, D. (Eds.) *Re-presenting GIS*. London Taylor and Francis.
- Harvey, F. (2003) Boundaries and Boundary Objects: The Administrative Production of Geographies in the United States. Paper for the Boundaries conference, Lancaster, England 3 -4 April 2003.
- Harvey, F. (2003) Quality + Quality = Quantity? Paper presented at the 99<sup>th</sup> Association of American Geographers' Meeting, New Orleans, LA, 5 - 8 March 2003.
- Harvey, F. (2001) The best government is that which governs least? Public Policy Problems for Geographic Information Access in the United States. Prepared for the ESF/NSF Workshop on Spatial Data Access and Participation, Spoleto, Italy, 6 - 9 December 2001.
- Harvey, F. (2001) "Trading Zones" for the Production of Pluralistic Geographic Knowledges Semantics, Language and Geographic Information Interoperability. Prepared for the ESRC Workshop on Spatial & Temporal Representation in a Digital Geography, Loughborough, UK, 30 August - 2 September 2001
- Harvey, F. (2001) Developing GI Infrastructures for local government: The role of trust. Prepared for the GIS and Changing Society Invitational Workshop, Columbus, Ohio, 17 - 20 May 2001.
- Harvey, F. (2001, May 2001). NSDI from the Trenches. *Local Government Perspectives*. *Geospatial Solutions*, 11, 38-40.
- Harvey, F. (1998, 23-25 April 1998). Improving Access to Geographic Information Quality. Paper presented at the First AGILE Meeting, Enschede.

- Harvey, F. (1998, 5-6Dec1997). Interoperability and Integration: Finding Semantic Agreement. Paper presented at the Interoperating GISs: Report of the Specialist Meeting, Santa Barbara, CA.
- Harvey, F. (1998) Frontiers and Cyberspace. Essay appearing in the CPSR Global Digest No. 772. (20Mar1998).
- Harvey, F. (1997, 19-21 November 1996). Agreeing to disagree: The social construction of geographic information technology. Paper presented at the GIS/LIS '97, Cincinnati, OH.
- Harvey, F. (1997, 3-4Dec1997). Designing for Interoperability. Overcoming Semantic Differences. Paper presented at the Interop'97, Santa Barbara.
- Harvey, F., & Vauglin, F. (1997, 7-10 April 1997). No Fuzzy Creep! A clustering algorithm for controlling arbitrary node movement. Paper presented at the AutoCarto 13, Seattle.
- Harvey, F. (1996, 19-21 November 1996). National culture and GIS design: Results from cross-cultural studies. Paper presented at the GIS/LIS '96, Denver, Co.
- Harvey, F., & Vauglin, F. (1996, 12-16 August 1996). Geometric match processing: Applying Multiple Tolerances. Paper presented at the The Seventh International Symposium on Spatial Data Handling (SDH'96), Delft, Holland.
- Harvey, F. (1995, 27February - 2 March 1995). National and organizational cultures in geographic information system design: A tale of two counties. Paper presented at the Twelfth International Symposium on Computer-Assisted Cartography (AutoCarto 12), Charlotte, NC.
- Harvey, F. (1994, 5-9 September 1994). Defining unmoveable nodes/segments as part of vector overlay. Paper presented at the Sixth International Symposium on Spatial Data Handling, Edinburgh, Scotland.
- Harvey, F. (1994, 22-26 August 1996). Reprivatization in Eastern Germany: Problems and Solutions? Paper presented at the IGU 1994, Prague.
- Harvey, F. (1994, 21-24 February 1994). Supporting planning tasks in regional planning: A conceptual design for visualization aids based on a task hierarchy. Paper presented at the GIS '94, Vancouver, Canada.

#### **Book Reviews:**

- Harvey, F. (2007) Review: Nicholas Chrisman's Charting the Unknown. ACSM Bulletin.
- Harvey, F. (2000) Review of The Virtual Embodied. CAA Reviews. Available at: <http://www.caareviews.org/reviews/j.wood.html> .
- Harvey, F. (1999) Review of Geographic Information Systems and Computer Cartography by Christopher Jones. Transactions in GIS 3(2) 199-202.
- Harvey, F. (1995). Book review: Pickles, J. (ed.) (1995) Ground Truth. Professional Geographer, 47(4), 484-486.

#### **Newspapers and Magazines:**

- Harvey, F. (2001). The Local Government Perspective. U.S. National Spatial Data Infrastructure. GIM International. 15(3) 36 - 39.
- Harvey, F. (2000). Quality Means More Than Standards. GIM International. 14(6) 77-79.

#### **INVITED PRESENTATIONS**

- 11Jan2008 Polish Cadasters? Institutions and Interactions: Anthropological and Geographical Perspectives on Property Elasticity in Poland, Jagellonian University, Krakow, Poland.
- 5Jul2007 Is GI what we think it is?. Keynote delivered at GI-Forum, University of Salzburg, Austria.
- 11Jun2007 US NSDI. Technologie dla INSPIRE. Technologie dla geodezji, Warsaw, Poland.
- 4Jan2006 Elasticity between the Cadastre and Land Tenure: Balancing Civil and Political Society Interests. Department of Geography, University of Gdansk, Poland
- 26May05 In Practice We Trust? Sharing Geographic Information in US Local Governments and Coordination among Polish Government Offices, University College London, London, UK
- 27Nov01 GIScience and Technology, Geog 4001, Modes of Geographic Inquiry
- 25Oct99 Integrating Geodata Infrastructures. Illinois State University.

- 26Feb99 A-NT's and Boundaries: Social-Theoretical Perspectives on Geographic Information Technology. University of West Virginia.
- 13Oct98 Geographic Information Interoperability: The Recurrent Challenge, University of Kentucky GIS Colloquium
- 6May97 Geometric Match Processing for GIS, University of Zürich
- 23April96 GIS: An Introduction, University of Washington (Geography 100)

## PRESENTATIONS

- Harvey, F. (2007) Polish Cadastres? Institutions and Interactions: Anthropological and geographical perspectives on property elasticity in Poland. Paper Landscapes--Lived Landscapes, Warsaw, Poland
- Harvey, F. (2007) Nowhere is everywhere? Towards post-modernist ubiquitous computing-based geographic communication. AAG Annual Meeting, San Francisco.
- Harvey, F. (2007) A Bigger Picture: Information Systems and Spatial Data Infrastructure Research Perspectives. AGILE Annual Meeting, Aalborg, Denmark.
- Harvey, F. (2007) US NSDI. Technologie dla INSPIRE. Technologie dla geodezji, Warsaw, Poland. INSPIRE Polska Spotkanie [invited]
- Harvey, F. (2007) Polish Cadasters? Institutions and Interactions: Anthropological and Geographical Perspectives on Property Elasticity in Poland. Workshop 'Private Property: Postsocialist Promises and Experiences' «Propriété privée: Promesses et expériences postsocialistes», Bucharest, Romania.
- Harvey, F. (2007) Is GI what we think it is? GI Forum 2007. Salzburg, Austria. [invited]
- Harvey, F. (2007) Polish Cadastres? Institutions and Interactions: Anthropological and geographical perspectives on property elasticity in Poland. EUGEO, Amsterdam, The Netherlands.
- Harvey, F. (2007) Dead Peasants and Colonising Eurocrats? Rural Adaptations and Geographical Imaginations in Poland. RGS/IBG, London, United Kingdom.
- Harvey, F. (2007) A Bigger Picture: Information Systems and Spatial Data Infrastructure Research Perspectives. RGS/IBG, London, United Kingdom.
- Harvey, F. (2007) Land Cadastres and Land Tenure: Sustainability's Need for Elasticity. Cooperation and Coordination in the Area of Geoinformation for Sustainable Development in Poland and in Europe, Warsaw, Poland
- Harvey, F. (2006) Local SDI Practice in the United States. SDI-Return on Investment Workshop. Ispra, Italy
- Harvey, F. (2006) Metadata and Beyond. Annual Meeting of the American Association of Geographers
- Harvey, F. (2006) Geographic Information and the Cadastre in Poland. Annual Meeting of the American Association of Geographers
- Harvey, F. (2006) GIS Professional Certification. Annual Meeting of the American Association of Geographers
- Harvey, F. (2006) Logan's World. A Redlined Future for SDI. Beyond SDI Workshop, Münster, Germany
- Harvey, F. (2006) Status Functions, Collective Intentionality: Matters of Trust for Geospatial Information Sharing. GIScience 2006, Münster, Germany.
- Harvey, F. (2006) Culture and Technology Meeting in Geographical Names. Naming of Seas Conference, Seoul, Korea.
- Harvey, F. (2005) Elasticity of the land: Stretching the cadastre in Poland. 57<sup>th</sup> Annual Meeting of the West Lakes Division of the Association of American Geographers and the International Geographical Union's Commission on Geography & Public Policy. Iowa City, Iowa 5 November 2005.
- Harvey, F. (2005) Culture and Technology meeting in Geographic Names. 11<sup>th</sup> International Seminar on the Naming of the Seas. Washington D.C., 6 October 2005.
- Harvey, F. (2005) Is Alignment the Same as Matching? Integration from a Cartographic Perspective. ICC 2005, La Coruna, Spain, 13 July 2005.
- Harvey, F. (2005) Local Government Data Sharing and Trust in the US. ITC, Enschede, The Netherlands, 4 July 2005.
- Harvey, F. (2005) Polish Land Tenure and Cadastre. ITC, Enschede, The Netherlands, 4 July 2005.
- Harvey, F. (2005) Elasticity for Civil and Political Society between the Cadastre and Land Tenure. Europe in Transition: 15 Years of Post-socialist Development and its Lessons for European Integration. Cracow, Poland, 24 June 2005.
- Harvey, F. (2005) In Practice We Trust? Sharing Geographic Information in US Local Governments and Coordination among Polish Government Offices AGI Annual Lecture. London, England, 26 May 2005.

- Harvey, F. (2005) SDI Development in Poland. First Results from a National Survey. Ogólnopolskie Sympozjum "Krakowskie Spotkania z INSPIRE" Cracow, Poland, 4May2005.
- Harvey, F. (2005) Elasticity for Civil and Political Society between the Formal Cadastre and Informal Land Tenure. GSDI/FiG Joint Conference, Cairo, Egypt, 19April2005.
- Harvey, F. (2005) Going East? The EU, GIS and the Governance of Polish Rural Areas. GISRUK 2005, Glasgow, Scotland, 8April2005.
- Harvey, F. (2005) Aligning or Matching? Cartographic Perspectives on Geographic Integration. AutoCarto, Las Vegas, NV, 22March2005.
- Harvey, F. and Vick, B. (2005) The Enhanced Coordination of Cadastral Information. American Congress on Surveying and Mapping Conference, Las Vegas, NV, 22March2005.
- Harvey, F. (2004) Udostępnianie danych we władzach lokalnych a Ogólnokrajowa Infrastruktura Danych Przestrzennych (NSDI) w USA, Seminarium Infrastruktura danych przestrzennych w Polsce i Europie – Strategia, Standardy, Metadane i Generalizacja, 02December2004.
- Harvey, F. (2004) How Do Local Governments Share and Coordinate Geographic Information? Cases from the United States. Fachhochschule Kärnten, Fachbereich Geoinformation, 23November2004.
- Harvey, F. (2004) Landwirtschaftlicher Strukturwandel in Polen. Formeller Kataster und Informelle Bodennutzung. Universität Leipzig, Institut für Geographie, 16November2004.
- Harvey, F. (2004) Changes to the Land. Implementing European Union Common Agricultural Policy in Poland. University of Wisconsin-Madison, Center for German and European Studies, 12October2004.
- Harvey, F. (2004) Enhanced Coordination of Cadastral Information. MN GIS/LIS, 5-7October2004.
- Harvey, F. (2004) How do local governments share and coordinate geographic information?, International Geographical Union Congress, Glasgow, Scotland, 15-19August2004.
- Harvey, F. (2004) How do local governments share and coordinate geographic information? Issues in the United States. 10th EC GI&GIS Workshop, 'ESDI - State of the Art', Warsaw, 23-25June2004.
- Harvey, F. (2004) Cadastral Infrastructures in Post-socialist Transition and EU Accession: The Case of Poland. 10th EC GI&GIS Workshop, 'ESDI - State of the Art', Warsaw, 23-25June2004. (Poster)
- Harvey, F. (2004) How do local governments share and coordinate geographic information? Issues in the United States. Swedish Map Days, 25-26March2004. Gävle, Sweden.
- Harvey, F. (2003) How Do Local Governments Share and Coordinate Geographic Information? International Cartographic Congress, Durban, South Africa, 10-16August2003.
- Harvey, F. (2003) Boundaries and Boundary Objects: The Administrative Production of Geographies in the United States. Boundaries, Materialities, Differences, Continuities, Lancaster, UK 3-4April2003
- Harvey, F. (2003) Quality + Quality = Quantity? 99<sup>th</sup> AAG meeting, New Orleans, LA, 5-8March2003.
- Harvey, F. (2003) GIS and GIScience. What about ethics? Presented at panel on GIS and Society: Past, Present, and Future organized by LaDona Knigge, Trevor Harris, and John Krygier, 99<sup>th</sup> AAG meeting, New Orleans, LA, 5-8March2003.
- Harvey, F. (2002) Dilemmas for Government: Theories and Practices of Data Sharing in the NSDI. Paper presented at the Society for the Social Studies of Science Conference, Milwaukee, Wisconsin, 7-9 November 2002.
- Tulloch, D. and Harvey, F. (2002). Best Practices for Data Sharing in Local Government. Paper presented at the URISA 2002 Conference, Chicago, Illinois, 26-30 October 2002.
- Harvey, F. (2002) Potentials and problems for the involvement of local government in the NSDI, Sixth Global Spatial Data Infrastructure Conference, Budapest, 16-19September2002.
- Harvey, F. (2002) The MetroGIS initiative: development, integration and sharing of geographic data through regional collaboration. Sixth Global Spatial Data Infrastructure Conference, Budapest, 16-19September2002. (Presentation of paper written by Randy Johnson/MetroGIS and David Arbeit/DNR)
- Harvey, F. (2002) Potentials and Problems for the Involvement of Local Government in the U.S. National Spatial Data Infrastructure. Paper presented at the Regional Conference of the International Geographic Union (IGU), Durban, South Africa, 4-7 August 2002.
- Harvey, F. (2002) Semantic Interoperability and Citizen/Government Interaction. Key note paper presented at the Joint Symposium on Geospatial Theory, Processing, and Applications, Ottawa, Canada, 8-12 July 2002.
- Wardenga, U. and Harvey, F. (2002). The Reception and Transformation of Alfred Hettner's System of Geography in Richard Hartshorne's The Nature of Geography. Paper presented at the Session Empires of Science during the Association of American Geographers Conference, Los Angeles, California, 19-23 March 2002.

- Harvey, F. (2001) Re-Opening Geography's Museum: The Reception and Transformation of Alfred Hettner's System of Geography in Richard Hartshorne's *The Nature of Geography*, Friday Coffee Hour, Department of Geography, University of Minnesota, 9Nov2001.
- Harvey, F. (2001) Opening the Doors of Government: The Virtual Clearinghouse for Kentucky. Brown Bag Presentation at the Department of Geographic Information Science and Engineering. University of Maine 24May2001.
- Harvey, F. (2001) Potentials and Problems for the Involvement of Local Government in the NSDI. FGDC Coordinating Group Meeting. Washington D.C., 9January2001.
- Harvey, F. (2001) Potentials and Problems for the Involvement of Local Government in the NSDI. USGS/FGDC Research Seminar. Washington D.C., 8January2001.
- Harvey, F. (2000) Potentials and Problems for the Involvement of Local Government in the NSDI. Brown Colloquium Presentation. Minneapolis, MN, 7December 2000.
- Harvey, F. (2000). Potentials and Problems for the Involvement of Local Government in the NSDI. Paper presented at the GIScience 2000 Conference, Savannah, Georgia, 28-31October 2000.
- Harvey, F. (2000). Potentials and Pitfalls for Vertical Integration for the NSDI: Local Infrastructures for whom and by whom? Paper presented at the 4S/EASST meeting in Vienna, Austria, 27-30September 2000.
- Leinbach, T. R. "Research Issues in GIScience", 6th Annual Conference, GIS Data Centre, Vietnam National University, Ho Chi Minh City, July 25, 2000, (with collaboration by Francis Harvey)
- Harvey, F. (2000) Bringing GIS to Human Geographers: Quantitative/Qualitative Complementarities, First International Conference on GIS Education. California State University at San Bernadino, San Bernadino, 16 - 19 July 2000.
- Harvey, F. (2000) Potentials and Pitfalls for Local Governments in the NSDI: Building Geographic Information Infrastructures from the Ground Up, National Association of Counties (NACO) Annual Meeting, Charlotte, 15 - 18 July 2000.
- Harvey, F. (2000) The Role of Public Participation in the NSDI, Annual Meeting of the Association of American Geographers, Pittsburgh, 4 - 8 April 2000.
- Harvey, F. (1999) Vertical Integration: The Geographic Key to a Successful National Spatial Data Infrastructure, Fifty-fourth Meeting, Association of American Geographers Southeastern Division, Tampa, 20-23 November 1999.
- Harvey, F. (1999) Rethinking Social Networks: Merging ANT and Boundary Objects, Society for the Social Studies of Science Conference, San Diego 30 October 1999.
- Harvey, F. (1999) Pitfalls and Potentials of Localizing the National Spatial Data Infrastructure (NSDI), Critical Geography Conference, Cincinnati, 23 October 1999.
- Harvey, F. (1999) Pessimistic Generalization. Workshop on Automated Generalization, Ottawa, Canada. 18-20 August 1999.
- Harvey, F. (1999) Quality needs more than standards. International Cartographic Conference, Ottawa, Canada. 14-21 August 1999.
- Harvey, F. (1999) Integrating Geodata Infrastructures from the Ground Up. Nineteenth Annual ESRI International User Conference. 26-30 July 1999.
- Harvey, F. (1999) Approaching Networks of Engineering: Merging quantitative and qualitative approaches. GIS and Society Conference, Minneapolis, MN. 20-26 June 1999.
- Harvey, F. (1999) What is semantic interoperability? Annual Meeting of the American Association of Geographers. Honolulu, HI, 23 - 27 March 1999.
- Harvey, F. (1999) Visualizing Data Quality through Interactive Metadata Browsing. Workshop on Virtual Reality and Geography, University of Leicester. 3-5 January 1999.
- Harvey, F. and Wardenga U. (1998) The Hettner-Hartshorne Connection: Reconsidering the Process of Reception and Transformation of a Geographic Concept. IGU Commission on the History of Geographic Thought, Lisbon, Portugal, 27-29 August 1998.
- Harvey, F. (1998) Improving Access to Geographic Information Quality. Paper presented at the First AGILE conference, Enschede, Holland, 23-25 April 1998.
- Harvey, F. (1997) Designing for Interoperability: Overcoming Semantic Differences. Paper presented at the Interop '97 Conference, Santa Barbara, CA, 3-4 December 1997.
- Harvey, F. (1997). Improving Multi-Purpose GIS Design: Participative Design. Paper presented at the COSIT '97 Conference, Hidden Valley, PA, 15-18 October 1997.
- Harvey, F. (1997). Agreeing to disagree: The social construction of geographic information technology. Paper presented at the GIS/LIS '97 Conference, Cincinnati, OH, 28-30 October 1997.
- Harvey, F. (1997) Geographic Integration: From Holism to Systems. XXth International Congress of History of Science, 20-26 July 1997, Liège, Belgium.

- Harvey, F. (1997) Boundaries in GIS Design. Approches sociologiques des SIG et de leurs impacts sur les organisations. 23 June 1997, Lausanne.
- Harvey, F. (1997) Generalization and GIS: Holism and Purpose. Second Workshop on Progress in Automated Map Generalization. 19 - 21 June 1997, Gävle, Sweden.
- Harvey, F. (1997) Boundaries of GIS. Research Conference on Socio-Economic Research and Geographic Information Systems. 17-22 May 1997, Catelvecchio Pascoli, Italy.
- Harvey, F. (1997) Quality needs more than Standards. Embedding and Navigating. First CASSINI International Meeting on Data Quality and Error. 21-23 April 1997, Paris.
- Harvey, F., & Vauglin, F. (1997). No Fuzzy Creep! A clustering algorithm for controlling arbitrary node movement. AutoCarto 13. 9 April 1997, Seattle: ASPRS/ASCM.
- Harvey, F. (1997) Agreeing to Disagree: Boundaries in the Construction of GIS. AAG Annual Meeting, 1-5 April 1997, Ft. Worth, Texas.
- Harvey, F. (1997) Research Methodologies: An Elementary Overview, 5 February 1997, Meeting "SIG et Méthodologie", Le Pont, Switzerland.
- Harvey, F. (1997) National Culture and GIS Design: Results from Cross-Cultural Comparisons, 27 January 1997, Technical University of Vienna, Austria.
- Harvey, F. (1996) National Culture and GIS Design: Results from Cross-Cultural Comparisons, 17 December 1996, University of Münster, Germany.
- Harvey, F. (1996) National Culture and GIS Design: Results from Cross-Cultural Comparisons, 20 November 1996, GIS/LIS '96, Denver.
- Harvey, F. (1996) Agreeing to Disagree: Boundary objects and GIS technology. NCGIA Brown Bag Seminar, 23 October 1996, Santa Barbara.
- Harvey, F. and Vauglin, F. (1996) Geometric match processing: Applying multiple tolerances. Seventh International Symposium on Spatial Data Handling, 12 - 16 August 1996, Delft, The Netherlands.
- Harvey, F. (1996) National Cultural Influences on GIS Design, 1996 GISDATA Summer Institute, 25 July 1996, Berlin.
- Harvey, F. (1995) Modern geography: From Holism to System. ISPAS, University of Vechta, 21 August 1995, Vechta, Germany
- Harvey, F. (1995) National and organizational cultures in geographic information system design: a tale of two counties. Proceedings, Twelfth International Symposium on Computer-Assisted Cartography (AutoCarto 12), 27 February - 2 March 1995, Charlotte, NC.
- Harvey, F. (1994) Defining unmoveable nodes/segments as part of vector overlay: The alignment overlay. Sixth International Symposium on Spatial Data Handling, 5 -9 September 1994, Edinburgh, Scotland.
- Harvey, F. (1994) Alignment of cartographic features through modification of the fuzzy overlay algorithm. Institut Géographique National (IGN), September 2 1994, Paris, France.
- Harvey, F. (1994) Reprivatization in Eastern Germany: Problems and Solutions? International Geographic Union Regional Meeting 1994, 22-26 August 1994, Prague, Czech Republic.
- Harvey, F. (1994) Supporting planning tasks in regional planning: A conceptual design for visualization aids based on a task hierarchy. GIS '94, 21-24 February 1994, Vancouver, Canada.
- Harvey, F. (1994) Careers in geographic information systems (GIS). University of Washington Extension, Emerging Careers in Technology Meeting, 14 April 1994 Seattle, WA.
- Harvey, F. (1991) Sharing Spatial Digital Data in the Swiss Government: Types and Problems. NCGIA Seminar, 6 June 1991, Santa Barbara.
- Harvey, F. (1991) Organizational and technical aspects of sharing spatial data in the Swiss Federal Government: The Project GEOSTAT. Eleventh Annual ESRI User Conference, 22-27 May 1991, Palm Springs, CA.
- Harvey, F. (1991) The collection and provision of spatial data at the national level. Second Annual European Conference and Exhibition on Geographical Information Systems (EGIS '91), 2-5 April 1991, Brussels, Belgium.
- Harvey, F. and Arnold, K. (1989) Design and implementation of a map library for the Swiss Federal Office of Statistics. Arc/Info European User's Conference, 24-27 October 1989, Rome, Italy.

## **PROFESSIONAL SERVICE**

### **Editorial Board Participation**

9/98 - now                      URISA Journal

11/01 - now International Journal of Geographical Information Science  
5/04 - now Cartographica  
4/07 - now GeoJournal

**University Consortium for Geographic Information Science**

6/01 - 6/06 Vice-Chair of the Education Committee

**Association of American Geographers**

8/02 - 4/06 Geographic Information Standards Committee Member  
1/01 - 4/01 Nystrom Committee Member

**United States Government**

3/00 - 12/00 Member of GeoData Organizational Initiative (supported by USGS/FGDC)

**Reviewer of manuscripts for:**

Annals of the Association of American Geographers	since March 2000
Canadian Geographer	since June 2004
Cartographica	since September 2004
Computers in Urban Planning and Urban Management	since February 2007
Computers, Environment and Urban Systems	since November 2001
Cultural and Social Geography	since November 2001
Cartography and Geographic Information Systems	since January 2000
Environment and Planning A	since January 2000
Environment and Planning B	since October 1998
Routledge Press	since July 2007
Geographical Review	since November 1999
International Journal of Geographic Information Science	since May 2005
Transportation Review Board	since May 1998
The URISA Journal	since August 1998
	since October 1998
	since April 1999

**Professional Association Memberships:**

American Association of Geographers (AAG)  
Geographic Information Systems Speciality Group  
Russian and Central Eastern European Speciality Group  
Association for Computing Machinery (ACM)  
Computers and Society (SIGCAS)  
Society for the Social Study of Science  
Computer Professionals for Social Responsibility (CPSR)

**UNIVERSITY OF MINNESOTA TEACHING 2005-2006**

Maps, Visualization, and Geographical Reasoning (GEOG 1502) [60]	Fall 2005
Geographic Thought (GEOG 4001) [17]	Fall 2005
GIS and Society (GEOG 8292) [7]	Fall 2005
Advanced Geographic Information Science (GEOG 5563) [17]	Spring 2006
Maps, Visualization, and Geographical Reasoning (GEOG 1502) [61]	Fall 2006
Transitions in Central and Eastern Europe (GEOG 8980) [19] (with UW)	Fall 2006

*Note number in brackets indicates number of students registered*

**EXTERNAL TEACHING**

April-May 2005 GIS, Society, and Engineers, Fachhochschule Kärnten, Austria  
March-April 2005 GIS and Society, Universität Münster, Germany

**EDUCATIONAL MATERIAL**

Understanding GIS Operations: A Transformational Approach, ESRI Virtual Campus course, available at [campus.esri.com](http://campus.esri.com)

**UNIVERSITY SERVICE (University of Minnesota - Twin Cities)**

**Department of Geography/University of Minnesota**

9/04 – 12/06	Graduate Admissions and Financial Aid Committee
12/03- 6/04	Merit Review Committee
8/02 – 6/04	Graduate Policy Committee
8/02 - 5/04	BioPhysical Search Committee
5/02 - 1/03	Temporary GIS Search Committee
8/01 - 7/02	Undergraduate Education Policy
8/01 - 7/02	Personal Committee
8-01 - now	MGIS Advisory Committee
1/00 - 6/01	UK GIS Interest Group Chair and GIS Day Chair
9/99 - 6/01	Chair, Cartography Laboratory Advisory Committee
9/99 - 6/01	Personnel Committee
6/99 - 6/01	GIS Day Committee Chair and GIS Day Chair
9/98 - 6/01	Undergraduate Committee
9/98 - 9/99	Cartography Laboratory Advisory Committee

**College of Liberal Arts/University of Minnesota**

9/03 - 6/04	Elected member of CLA Assembly
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**University of Minnesota**

5/03 - now	Member, Campus Committee on Student Behavior
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