

**Charles M. Schweik**  
Curriculum Vitae  
(Last revised: October 2008)

Associate Professor  
Dept of Natural Resources Conservation and  
Center for Public Policy and Administration  
University of Massachusetts, Amherst  
Holdsworth Hall 217  
Amherst, MA 01003-9275

Phone: (413) 545-1824  
Email: cschweik@pubpol.umass.edu  
<http://people.umass.edu/~cschweik>

**Education:**

Ph.D. Public Policy, 1998; Indiana University. Fields: Public Management, Public Policy (Environmental), Methodology;  
M.P.A., 1991; Maxwell School of Citizenship and Public Affairs, Syracuse University;  
B.A., Computer Science, 1984; Potsdam State University, Potsdam, New York.

**Employment:**

2006- Associate Professor, Department of Natural Resources Conservation and Center for Public Policy and Administration, University of Massachusetts, Amherst  
2006- Associate Director, National Center for Digital Government, University of Massachusetts, Amherst  
2001-2006 Assistant Professor, Department of Natural Resource Conservation and Center for Public Policy and Administration, University of Massachusetts, Amherst  
1999 - 2001 Postdoctoral Fellow, Center for the Study of Institutions, Population and Environmental Change, Indiana University and Adjunct Faculty, Center for Public Policy and Administration, University of Massachusetts Amherst.  
1998-1999 Postdoctoral Fellow, Center for the Study of Institutions, Population and Environmental Change, Indiana University  
1993-1997 Research Assistant, Workshop in Political Theory and Policy Analysis, and Center for the Study of Institutions, Population and Environmental Change, Indiana University, Bloomington, IN.  
1991-1992 Research Associate, Project Performance Corporation, Sterling Virginia.  
1988-1989 Staff Programmer, IBM Headquarters, Southbury CT.  
1984-1988 Senior Associate Programmer. IBM East Fishkill, NY.

**Under Preparation**

Hamel, M. and Schweik, C.M. Open-Source Collaboration: Two Cases in the U.S. Public Sector.

Kittredge, D., Schweik, C., Fish, J., Stevens, T., and Catanzaro, P. "Toward Internet-Based "Peer-Production" Commons in Non-Industrial Private Forest Landscapes: The ACORN Project."

Schweik, C., English, R. and Haire, S. Open Source Software Collaboration: Foundational Concepts and an Empirical Analysis.

Book – *Collaborative Principles of Open Source Software Commons* (tentative title)

**Refereed Publications (17):**

Schweik, C. M., Fernandez, M., Hamel, M.P., Kashwan, P., Lewis, Q., Stepanov, A. "Reflections of an Online Geographic Information Systems Course Based on Open Source Software." Forthcoming. *Social Science Computer Review*.

Nagendra, H., Pareeth, S. B., Sharma, B., Schweik, C.M., Adhikari, K. 2008. "Forest Fragmentation and

Regrowth in an Institutional Mosaic of Community, Government and Private Ownership in Nepal. *Landscape Ecology*. 23(1) January.

- English, R. and Schweik, C.M. 2007. "Identifying Success and Abandonment of Free/Libre and Open Source (FLOSS) Commons: A Preliminary Classification of Sourceforge.net projects." *Upgrade: The European Journal for the Informatics Professional*. Vol. VIII, Issue no. 6 (December). Available at [http://www.upgrade-cepis.com/issues/2007/6/upg8-6English\\_Schweik\\_v2.pdf](http://www.upgrade-cepis.com/issues/2007/6/upg8-6English_Schweik_v2.pdf)
- Schweik, C.M. and English, R. 2007. "Conceptualizing the Institutional Designs of Free/Libre and Open Source Software Projects." *First Monday* 12(2). Available at [http://www.firstmonday.org/issues/issue12\\_2/schweik/index.html](http://www.firstmonday.org/issues/issue12_2/schweik/index.html).
- Finely, A.O, Kittredge, D. B., Stevens, T.H., Schweik, C.M. and Dennis, D. 2006. "Possibilities for cross-boundary cooperation in a landscape dominated by private ownership: a case study from Massachusetts," *Forest Science*. 52(1): 10-22.
- Schweik, C.M. An Institutional Analysis Approach to Studying Libre Software "Commons". 2005. *Upgrade: The European Journal for the Informatics Professional*. June. pp 17-27. <http://www.upgrade-cepis.org/issues/2005/3/up6-3Schweik.pdf>. (Spanish version available at <http://www.ati.es/novatica/>).
- Belin, D.L., D.B. Kittredge, T.H. Stevens, D.C. Dennis, C.M. Schweik, and B.J. Morzuch. 2005. Assessing Private Forest Owner Attitudes Toward Ecosystem-based Management. *Journal of Forestry*. January/February. pp. 28-35.
- Schweik, C., T. Evans and J. Grove 2005. Open Source and Open Content: a Framework for Global Collaboration in Social-Ecological Research. *Ecology and Society* 10 (1): 33. [online] URL: <http://www.ecologyandsociety.org/vol10/iss1/art33/>. 25 pp.
- Schweik, C.M., Stepanov, A. and Grove, J.M. 2005. "The Open Research System: A Web-based Metadata and Data Repository for Collaborative Research." *Computers and Electronics in Agriculture*. 47. pp. 221-242.
- Osterweil, L., Schweik, C.M., Sondheimer, N. and Thomas, C., 2004. "Analyzing Processes for E-Government Development: The Emergence of Process Modeling Languages." *Journal of E-Government*. 1(4). pp. 63-87.
- Schweik, C.M. and Semenov, A. 2003. "The Institutional Design of "Open Source" Programming: Implications for Addressing Complex Public Policy and Management Problems." *First Monday* 8(1). [http://www.firstmonday.org/issues/issue8\\_1/schweik/](http://www.firstmonday.org/issues/issue8_1/schweik/). 33 pp.
- Schweik, C.M., H. Nagendra, and D.R. Sinha. 2003. "Using Satellite Imagery to Locate Innovative Forest Management Practices in Nepal." *Ambio*. Vol 32. No. 4. (June). pp. 312-319.
- Schweik, C.M. and C. Thomas. 2002. "Using Remote Sensing for Evaluating Environmental Institutions: A Habitat Conservation Planning Example," *Social Science Quarterly*, 83(1) pp. 244-262.
- Schweik, C. and J. Morgan Grove. 2002. "Fostering Open-Source Research Via a World Wide Web System," *Public Administration and Management: An Interactive Journal*, 5(3). [http://www.pamij.com/5\\_4/5\\_4\\_2\\_opensource.html](http://www.pamij.com/5_4/5_4_2_opensource.html). 18 pp.
- Schweik, C. 2000. "Optimal Foraging, Institutions and Forest Change: A Case from Nepal." *Environmental Monitoring and Assessment*, Vol. 63/64. pp. 231-260.
- Schweik, C. and G. Green. 1999. "The Use of Spectral Mixture Analysis to Study Human Incentives, Actions and Environmental Outcomes." *Social Science Computer Review*, Vol. 17 (1). pp. 40-63.

Schweik, C., K. R. Adhikari and K.N. Pandit. 1997. Land-cover Change and Forest Institutions: A Comparison of Two Sub-basins in the Siwalik Hills of Nepal. *Mountain Research and Development*, Vol. 17 (2). pp. 99-116.

Schweik, C. 1995. Electronic Mail, Privacy and the Public Sector: Guidelines for Public Employees and Organizations. *The Employee Responsibility and Rights Journal*, December. Pp. 275-293.

### **Refereed Book Chapters, Proceedings and Reports (7)**

Schweik, C., English R., Kitsing, M. and Haire, S. 2008. "Brooks' versus Linus' Law: An Empirical Test of Open Source Projects" in Soon Ae Chun, Marijn Janssen and Ramon Gil-Garcia (eds.) *The Proceedings of 9th International Digital Government Research Conference*, Montreal, Canada, May 18-21, pp. 423-424. Available at <http://portal.acm.org/citation.cfm?id=1367832.1367924&coll=GUIDE&dl=GUIDE&type=series&idx=SERIES10714&part=series&WantType=Proceedings&title=AICPS&CFID=28622903&CFTOKEN=12556402>

English, R. and Schweik, C.M. 2007. "Identifying Success and Tragedy of Free/Libre and Open Source (FLOSS) Commons: A Preliminary Classification of Sourceforge.net projects." Proceedings of the First International Workshop on Emerging Trends in FLOSS Research and Development (FLOSS'07: ICSE Workshops 2007), 20-26 May, Minneapolis, Minnesota.

Schweik, C. 2007. "Free / Open Source Software as a Framework for Scientific Collaboration" In Hess, Charlotte, and Elinor Ostrom, eds. *Understanding Knowledge as a Commons: From Theory to Practice*. Cambridge, Mass: MIT Press.

Green, G.M., Schweik, C.M. and Randolph, J.C. 2005. Linking Disciplines across Space and Time: Useful Concepts and Approaches for Land-Cover Change Studies. In *Seeing the Forest and the Trees: Human-Environment Interactions in Forest Ecosystems*, ed. Emilio F. Moran and Elinor Ostrom. pp. 61–80. Cambridge, Mass.: MIT Press.

Green, G.M., Schweik, C.M., and Randolph, J.C. 2005. Retrieving Land-Cover Change Information from Landsat Satellite Images by Minimizing Other Sources of Reflectance Variability. In *Seeing the Forest and the Trees: Human-Environment Interactions in Forest Ecosystems*, ed. Emilio F. Moran and Elinor Ostrom. pp. 131–160. Cambridge, Mass.: MIT Press.

Agarwal, C., G.M. Green, J.M. Grove, T. Evans, and C. M. Schweik. 2002. *A Review and Assessment of Land-Use Change Models: Dynamics of Space, Time, and Human Choice*. CIPEC Collaborative Report No.1. USFS Publication NE-GTR-297 Joint publication by the Center for the Study of Institutions, Population and Environmental Change at Indiana University-Bloomington and the USDA Forest Service. Burlington, Vt.: USDA Forest Service Northeastern Forest Research Station. Available at [http://www.fs.fed.us/ne/newtown\\_square/publications/technical\\_reports/pdfs/2002/gtrne297.pdf](http://www.fs.fed.us/ne/newtown_square/publications/technical_reports/pdfs/2002/gtrne297.pdf). 61 pp.

Grove, J. M., C. Schweik, T. Evans and G. M. Green. 2002. "Modeling Human-Environmental Dynamics." In *Geographic Information Systems and Environmental Modeling*, Clarke, K.C., B.E. Parks, and M.P. Crane (Eds.) Prentice Hall. pp. 160-188.

### **Other Book Chapters, Supplemental Materials and Reports (11):**

Schweik, C.M., Roth, D. and Fulop, J. 2005. "What is Meant by 'Decision-Making' in the Context of Eco-Informatics?" Paper presented for inclusion of final report of the Workshop on Biodiversity and Ecoinformatics, Evergreen State College, December 13-15, 2004. <http://www.evergreen.edu/bdei/documents/decisionmakingsummary.pdf> 6 pp.

- Cushing, J. et al. 2005. Eco-Informatics for Decision-Makers: Advancing a Research Agenda. In Data Integration in the Life Sciences, Second International Workshop, DILS 2005, San Diego, July 18-20, 2005 proceedings. Series: Lecture Notes in Computer Science Subseries: Lecture Notes in Bioinformatics. Raschid, L. and Ludaescher, B. (Ed.) 10 pp.  
<http://www.evergreen.edu/bdei/documents/dils2005.pdf>
- Schweik, C.M., Grove, J.M., and Evans, T.P. 2004. The Open Source Paradigm and the Production of Scientific Information: A Future Vision and Implications for Developing Countries. In J.M. Esanu and P.F. Uhler (eds.) *Open Access and the Public Domain in Digital Data and Information for Science*. Washington, D.C.: National Academies Press. Available at <http://www.nap.edu/books/0309091454/html/103.html>. pp. 103-109.
- Nagendra, H., and Schweik, C. M. 2004. "Forests and Management: A Case Study in Nepal Using Remote Sensing and GIS." In *100 Geographic Solutions to Saving Planet Earth: Association of American Geographers Centennial Volume*, B. Warf, K. Hansen, and D. Janelle (Eds.). Kluwer Academic Publishers. pp. 391-396.
- Ostrom, E., Glen Green, Sean Sweeny, Nathan Vogt, Harini Nagendra, Charles Schweik, Mateus Batistella, Edwin Castellanous, Victor Hugo Ramos, and Ronald Robles. 2003. Supporting online material (<http://www.sciencemag.org/cgi/content/full/302/5652/1907>) to the article by Thomas Dietz, Elinor Ostrom and Paul Stern entitled "The Struggle to Govern the Commons. *Science*, Vol 302, Dec 12. 15 pp.
- Schweik, C.M., Evans, T. and Grove, J.M. Initiating an Open Source\Content Landcover Change Modeling Effort. 2003. Report of a workshop held on August 22-23 2003. Available at [http://www.lulc.org/bcworkshop\\_2003/os\\_lulc\\_workshop\\_report\\_2003.pdf](http://www.lulc.org/bcworkshop_2003/os_lulc_workshop_report_2003.pdf).
- Schweik, C. 2000. "Optimal Foraging, Institutions, and Forest Change: A Case from Nepal." (Reprint of Environmental Monitoring and Assessment article above) In *People and Forests: Communities, Institutions, and Governance*, Clark C. Gibson, Margaret A. McKean, and Elinor Ostrom (eds.). Cambridge, MA: MIT Press.
- Schweik, C. 1998. The Spatial Analysis of Natural Resources in East Chitwan, Nepal: Conceptual Issues and a Multi-Scale Research Program. In G. Shivakoti, et al. (Eds.) *People and Participation in Sustainable Development: Understanding the Dynamics of Natural Resource Systems*. Proceedings of an international conference held at the Institute of Agriculture and Animal Science, Rampur, Chitwan, Nepal, March 17-21, 1996. pp. 219-34.
- Schweik, C., K.R. Adhikari and K.N. Pandit. 1997. Integration of GIS and GPS Techniques in Irrigation and Forest Resources Mapping: Lessons Learned. In G. Shivakoti, et al. (Eds.) *People and Participation in Sustainable Development: Understanding the Dynamics of Natural Resource Systems*. Proceedings of an international conference held at the Institute of Agriculture and Animal Science, Rampur, Chitwan, Nepal, March 17-21, 1996. pp. 191-204 (Co-authored with K.R. Adhikari and K.N. Pandit)
- Schweik, C. 1996. Social Norms and Human Foraging: An Investigation into the Spatial Distribution of *Shorea robusta* in Nepal. *Food and Agriculture Organization Working Paper Series: Forest Trees and People Program. Phase II*.
- Huckfeldt, S., E. Ostrom, C. Schweik, and M.B. Wertime. 1994. A Relational Archive for Natural Resources Governance and Management. In A. Singh (ed.) *Proceedings of the UNEP and IUFRO International Workshop in Cooperation with FAO on Developing Large Environmental Databases for Sustainable Development*. July 14-16. Nairobi, Kenya. Sioux Falls, SD: UNEP

## Other Publications

Schweik, C. and B. Israel, 2000. "The Information Technology Program at the University of Massachusetts, Amherst." @ *OIT*. University of Massachusetts, Amherst.

Schweik, C. 1998. *The Spatial and Temporal Analysis of Forest Resources and Institutions*. PhD Dissertation, Indiana University, Bloomington, IN.

## Grants Received:

Since joining UMass in 1999 I have brought in nearly \$1,500,000 in sponsored research grants (\$860,388 as PI, \$596,900 as co-PI). The details are below (as of June 2007).

- 2007 -- \$19,000. USDA. Forest Service. Open Research System (ORS) Website Development for the Urban Natural Resources Institute and the Development of a Web-Based Interface for a "Carbon Calculator Plus Calculator."
- 2007 -- \$30,000. Commonwealth Information Technology Initiative. (co-PI). "Putting Franklin County on the Map" Grant to teach and distribute GIS teaching material to high school teachers in the Mohawk Valley School District. Co-PI. (David Greenberg, Mohawk Valley School District, PI. Other partners: Technology in Education Partnership, Greenfield Community College).
- 2005 -- \$6,459. USDA Forest Service. Developing an Open Content Collaboration in Urban Simulation Modeling.
- 2005 -- \$420,000. USDA NRI. Managed Ecosystems program. (Co-PI) "Acorn (A CoOperative Resource Network): use of the Internet to promote ecosystem-level cooperation among non-industrial private forest owners." 3 years, \$420,000. (Professor David Kittredge, PI, Thomas Stevens, and Paul Catanzaro (co-PIs)
- 2005 -- \$497,677. **NSF Faculty Early Career Development (CAREER) Grant**. "The Open Source/Content Commons as a New Paradigm for Collaborative Scientific Research: A Research and Teaching Agenda."
- 2005 -- \$18,808. National Park Service. A website and data server for the National Park Service Northeast Temperate Network Inventory and Monitoring Program. PI.
- 2004 -- \$10,000. USDA Forest Service. "Development and Management of a Web-based Research Collaboration System." 8/31/2004-5/31/2005.
- 2004 -- \$150,000 (approximately). Donation from IBM to develop a new Linux Open Source teaching lab. 26 desktop PCs, 1 lab server, and 2 IBM interns for 2004-5 school year. PI.
- 2004 -- \$24,332. National Park Service. A website and data server for the National Park Service Northeast Temperate Network Inventory and Monitoring program. PI.
- 2004 -- \$14,000 "Investigating "Open-Source" Concepts for the Enhancement of Environmental Research. USDA. PI.
- 2003 -- \$3,990. A Socioeconomic Database for Integrated Research and Assessment of Northeastern Forests – Part V. USDA Forest Service.
- 2003 -- \$82,900. ACORN (A CoOperative Resource Network): Use of the Internet to promote ecosystem-level cooperation among non-industrial private forest owners" Northeastern States Research Cooperative program. Co-PI (Dave Kittredge as PI.)
- 2002 -- \$75,000. Incorporation of Human Drivers and Responses in Land Use Change Models for the Northeastern and North Central Research Areas. USDA Forest Service. (With Tom Evans OF Indiana University). Co-PI.
- 2002 -- \$16,000. A Socioeconomic Database for Integrated Research and Assessment of Northeastern Forests – Part IV. USDA Forest Service. PI.
- 2001-3 -- \$14,000 "Investigating "Open-Source" Concepts for the Enhancement of Environmental Research. USDA. PI. \$14,000
- 2001 -- \$9,800. A Socioeconomic Database for Integrated Research and Assessment of Northeastern Forests – Part III. USDA Forest Service. PI.
- 2000 -- \$34,000. A Socioeconomic Database for Integrated Research and Assessment of Northeastern Forests

- Part II. USDA Forest Service. PI.
- 2000 -- \$10,500. Massachusetts Board of Higher Education Commonwealth Information Technology Initiative.
- 1999 -- \$48,281. A Socioeconomic Database for Integrated Research and Assessments of Northeastern Forests. USDA Forest Service. PI.
- 1999 -- USAID, "Human Dimensions of Natural Resource Management, A Collaboration Between Indiana University (USA) and Kathmandu University (Nepal)." (PI Elinor Ostrom.).
- 1998 -- \$9,465. University of Massachusetts Faculty Research Grant. "Compliance with Habitat Conservation Plans: A Time-Series Analysis of Remote Sensing Data. (Craig Thomas, PI)
- 1997 -- \$199,397. Cowrote and was awarded a grant from the Ford Foundation, New Delhi. (Elinor Ostrom PI). "Nepal Irrigation Institutions and Systems III."

#### **Awards and Nominations:**

- 2008 -- Nominated for the University of Massachusetts Distinguished Teaching Award (nominations made by students)
- 2005 -- Nominated for recognition at the first University of Massachusetts Fall Faculty Convocation, July, 2005.
- 2005 -- NSF CAREER Grant (see above under grants). The following text is taken directly from the NSF program webpage (<http://www.nsf.gov/home/crssprgm/career/>): "The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of the early career-development activities of those teacher-scholars who most effectively integrate research and education within the context of the mission of their organization."
- 2003 -- Nominated for a University of Massachusetts Distinguished Teaching Award
- 1999 -- Dissertation nominated for the American Political Science Association Harold D. Lasswell Award (best dissertation in the field of Policy Studies.)
- 1998 -- Associate Instructor Teaching Award, School of Public and Environmental Affairs, Indiana University

#### **Presentations and Working Papers:**

- 2008 -- Schweik, C.M., English, R. and Haire, S. 2008. Factors Leading to Success or Abandonment of Open Source Commons: An Empirical Analysis of Sourceforge.net Projects. Paper presented in the Academic Paper track of the 2008 Free and Open Source for Geospatial Conference, Cape Town, South Africa. September 29 – October 4, 2008. Abstract available at <http://conference.osgeo.org/index.php/foss4g/2008/paper/view/135>
- 2008 -- Open Source Software Collaboration: Foundational Concepts and an Empirical Analysis. Minnowbrook III Phase II Conference: The Future of Public Administration, Public Management and Public Service Around the World. Lake Placid NY. Sept 5-7. Paper available at <http://www.maxwell.syr.edu/pa/minnowbrook3/PDF%20Files/Phase%20II%20Papers/Schweik%20-%20Open%20Source%20Software%20Collab.pdf>.
- 2008 -- Schweik, C. M. "Three Pressing Information Technology-Related Issues for Public Administration and Management." Minnowbrook III Phase I Conference: The Future of Public Administration, Public Management and Public Service Around the World. Lake Placid NY. Sept 3-5. <http://www.maxwell.syr.edu/pa/minnowbrook3/>. Critique available at <http://www.maxwell.syr.edu/pa/minnowbrook3/ppp/Critiques/Schweik%20Critique.pdf>
- 2007 -- Building OSGeo HigherEd Content: Reflecting on an Online Introduction to GIS Course Using QGIS. Free and Open Source Software for Geospatial (FOSS4G) Conference, Victoria, Canada. September 25, 2007.
- 2007 -- "Examining the Structure of Internet-based Open Source Software Collaborations." Paper presented in a panel on IT-enabled Collaboration for Research, Innovation, and Management" at the American Society of Public Administration conference, March 25, 2007, Washington D.C.
- 2006 -- "Uncovering Design Principles of Open Source Collaborations: Implications for Government Agencies" Paper presented in a panel on Information Technology, Collaboration and Service Delivery, Association for Public Policy and Management Conference, Madison, WI. Nov 3<sup>rd</sup>. (Paper presented by Jane Fountain)

- 2006 -- Schweik, C.M. "Digital Government and the Environment: Three Areas of Progress." Invited presentation at The First US-China International Workshop on Digital Government Research and Practice (IntDG 2006). This was a workshop between US and Chinese Digital Government researchers as well as representatives of the US NSF and the Chinese NSF. Beijing, China. Oct 11-13<sup>th</sup>.
- 2006 -- Schweik, C.M. "Towards an "Open Source Commons" in Environmental Management and Policy." Invited presentation at the United Nations University's International Institute of Software Technology. Macau, China. Oct 9<sup>th</sup>.
- 2006 -- Schweik, C.M. and Semenov, A. "The Design and Functionality of the Open Research System (Version 3.0)" at the Baltimore Ecosystem Study Quarterly Science Meeting on "Sensors, Sensor Networks, and Cyberinfrastructure". University of Maryland, Baltimore Campus.
- 2006 -- Schweik, C.M. "Public-sector decision-making and the potential of open source and open content collaboration in eco-informatics". 7th Annual International Conference on Digital Government Research (DG.O 2006). San Diego, CA. May 21-24<sup>th</sup>.
- 2006 -- "Uncovering the collaborative principles of Free/Libre and Open Source Software." Center for Public Policy and Administration, Umass Amherst. March 3<sup>rd</sup>, 2006.
- 2006 -- "Key Issues in Research & Scholarship in the Digital Age at a Research University". Invited presentation at a workshop on "Research and Scholarship in the Digital Age: An Exploration. W.E.B. Du Bois Library, University of Massachusetts Amherst. April 6, 2006.
- 2004 -- Schweik, C., Evans, T.P. and Grove, J.M. 2004. "Open Source and Open Content: A Framework for the Development of Land Use Change Models." Paper presented at the Integrated Assessment of the Land System: The Future of Land Use workshop. October 28-30, 2004. Amsterdam.
- 2004 -- Schweik, C.M., Evans, T.P. and Grove, J. M. Open Source Programming as a Framework for Scientific Collaboration: An Example in the Context of Land-use Change Modeling. Paper presented at the (invited only) Workshop on Scholarly Communication as an Information Commons. Workshop in Political Theory and Policy Analysis, Indiana University. March 31-April 2. Available at: <http://dlc.dlib.indiana.edu/archive/00001247/>
- 2003 -- Schweik, C.M., Grove, J.M. and Evans, T.P. "An Open Content Framework for the Production of Landcover Change Models." Presentation at the 2003 Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Montreal, CA. October 16.
- 2003 -- Schweik, C.M., Stepanov, A. and Grove, J.M. "The Open Research System: A Web-Based Metadata and Data Repository for Collaborative Research." Presented at the Information Interoperability and Organization for National and Global Forest Information Systems. Quebec City, Quebec, CA. Sept 17.
- 2003 -- An Open Research System For Collaboration and Synthesis in Long Term Ecological Research." J. Morgan Grove, Charles M. Schweik and Jonathan Walsh. Presented at the NSF Long Term Ecological Research All Scientists meeting in a workshop entitled "Information Technology for the Decade of Synthesis: LTER Partners and Projects - Leveraging Resources and Metadata to Meet a Common Goal" in Seattle, WA on 9/22/03. Presentation made by Walsh.
- 2003 -- Schweik, C.M., Grove, J.M., Evans, T.P. and Pontius, G. "An Open Source Framework for Landuse Modeling: Kernels and Constituents." Presentation at European-American Workshop on Long Term Socio-Environmental Research in Lyons, France, June 29th - July 6th, 2003. (Grove presented).
- 2003 -- Schweik, C.M., Grove, J.M. and Evans, T.P. "The Open Source Paradigm and the Production of Scientific Research." Presentation at the International Symposium on Open Access and Public Domain in Digital Data and Information for Science, United Nations Educational, Scientific and Cultural Organization (UNESCO), Paris France. March 11, 2003.
- 2003 -- Evans, T. P., Schweik, C. M. and Grove, J. M. "Connecting Landcover Change Models to Policy Needs by Spatial Scale." Presentation at "Framing Land Use Dynamics: Integrating knowledge on spatial dynamics in socio-economic and environmental systems for spatial planning in western urbanized countries" International Conference 16-18 April. Utrecht University, The Netherlands.
- 2002 -- "The Institutional Design of "Open Source" Programming: Implications for Addressing Complex Problems in Pubic Policy and Management. Twenty-Fourth Annual APPAM Research Conference, November 7-9, 2002 Dallas, TX
- 2001 -- "Exploring the E-Government Frontier." Invited speaker at the New England Government Finance Officers' Association Meeting, Burlington, VT. September 14<sup>th</sup>.
- 2001 -- "Using Remote Sensing to Evaluate Habitat Conservation Plans: The Case of the Coachella Valley Fringe-Toed Lizard," (with Craig Thomas). Western Political Science Association Annual Meeting, Las Vegas, March 15-17.

- 2000 -- Review and Assessment of Land Use Change Models: Dynamics of Space, Time, and Human Choice," 2000. (Co-authored with Chetan Agarwal, Glen L. Green, J. Morgan Grove, Tom Evans.) 4th International Conference on Integrating GIS and Environmental Modeling (GIS/EM4): Problems, Prospects and Research Needs. Banff, Alberta, Canada, September 2 – 8.
- 2000 -- "Using Remote Sensing to Evaluate Environmental Regulations," (co-authored with Craig W. Thomas.) Paper prepared for delivery at the 2000 Annual Meeting of the American Political Science Association, Washington, D. C., August 31-September 3. (Paper presented by Thomas).
- 2000 -- "Fostering Open-Source Research Via a Web System," 2000. (co-authored with J. Morgan Grove.) Paper Presented at the Association for Computers and the Social Sciences Annual Online Conference, April 15-May 15.  
<http://www2.chass.ncsu.edu/css2000/> , also presented (by Grove) at the 4th International Conference on Integrating GIS and Environmental Modeling (GIS/EM4): Problems, Prospects and Research Needs. Banff, Alberta, Canada, September 2 - 8, 2000.
- 2000 -- "Global Monitoring: An Introduction." Invited presentation at the Human Dimensions of Global Change Workshop, Schloss Wendgraben, Germany. Sponsored by the German National Committee on Global Change Research and the International Human Dimensions of Global Change Program.
- 2000 -- A Multi-Method Framework for Evaluating Habitat Conservation Plans Using Remote Sensing Analysis," (with Craig Thomas.) Paper presented at the International Association for the Study of Common Property Conference, May 31- June 3. Bloomington, Indiana.
- 1999 -- Regulatory Compliance Under the Endangered Species Act: A Time Series Analysis of Habitat Conservation Planning Using Remote Sensing Data," (with Craig Thomas). Annual Meeting of the Association for Public Policy Analysis and Management (APPAM), Washington D.C., November 4-6.
- 1999 -- The Promise of Spectral Mixture Analysis for Forest Policy and Management," 1998. Annual Meeting of the Association of Public Policy Analysis and Management, New York, NY. October 29-31.
- 1998 -- Chair, Comparative Environmental Policy Panel, 1998. Annual Meeting of the Association of Public Policy Analysis and Management, New York, NY. October 29-31.
- 1998 -- Linking Satellite Images to Land Use Activities: An Exploratory Study of Southern Indiana Non-Industrial Private Forests," coauthored with Tomas Koontz and Laura Carlson. 1998. Western Political Science Association Meeting, Fort Collins, Colorado. (Paper presented by T. Koontz)
- 1997 -- Using Spatial Information to Understand Forest Change and Community Dynamics: A Case From Nepal," 1997. 26th Annual Conference on South Asia, Center for South Asia, University of Wisconsin at Madison, October 16-20.
- 1996 -- "The Spatial Analysis of Natural Resources in East Chitwan, Nepal: Conceptual Issues and a Multi-Scale Research Program." 1996. Paper Presented at the Conference on Participation, People, and Sustainable Development: Understanding the Dynamics of Natural Resource Systems, Institute of Agriculture and Animal Sciences (IAAS), Central Campus, Rampur, Chitwan, Nepal, March 17-20.
- 1994 -- Discussant, Data Collection Methods and Tools panel at the National Seminar on Improving Support Services to Farmer-Managed Irrigation Systems (FMIS), Kathmandu, Nepal, September 1-2.
- 1993 -- "A Relational Archive for Natural Resources Governance and Management," 1993. Application of Advanced Information Technologies: Effective Management of Natural Resources, At the Conference of the American Society of Agricultural Engineers, Spokane, Washington, June 8-19.

**Reviewer (articles, books, proposals):**

*National Science Foundation reviewer (2004, 2006, 2008)*

*Social Science Quarterly*

*Journal of Policy Analysis and Management*

*Environmental Management*

*Natural Resources Forum*

*The Internet Encyclopedia*

*Biodiversity and Conservation*

*World Development Review*

*Environment and Planning A*

**Professional Service and Honors (selected items):**

Member of the conference committee for the Open Source Software Development And Solutions (Ossds) In the Fourth International Conference On Signal-Image Technology & Internet–Based Systems to occur later in 2008 in Bali Indonesia.

Member of the design/development team for the City of Boston “CarbonPlus Calculator” (with USDA Forest Service, Davey Inc., Boston College). To go online in spring or summer 2008.

Developed (with my RA Andrei Semenov) the Urban Ecology Collaborative's collaboration website which runs on my web server using our underlying “open research system” platform. <http://urbanecologycollaborative.org>. 2005-present.

Elected chair of the Open Source Geospatial Foundation's (OSGeo.org) Education Committee. 2007-present.

Developed and offered **online course** “Introduction to Geographic Information Systems using QGIS, PostgreSQL, PostGIS and the GRASS Plug-in for QGIS.” Spring 2007. Taught students from Nigeria, Uganda, United States, and several other countries. Curriculum licensed open content and made available at OSGeo.org (education group).

Invited participant - Program Committee of ICEGOV2007 - International Conference on Theory and Practice of Electronic Governance, Macau, 10-13 December 2007.

Invited participant - Arctic System Synthesis Workshop: New Perspectives through Data Discovery and Modeling. April 2-4 2007, Seattle Washington. [http://www.arcus.org/ARCSS/2007\\_data/index.html](http://www.arcus.org/ARCSS/2007_data/index.html).

Nominated to serve on the design committee (landuse section) for the NSF National Ecological Observatory Network initiative. December 2004.

Invited participant – National Science Foundation and NASA. Eco-Informatics & Decision Making Workshop for defining a research agenda. Evergreen State University, Olympia, WA. December, 2004

Invited participant – National Science Foundation and Organization of American States workshop on developing an e-Government research agenda for Latin America. OAS, Washington D.C. November, 2004.

Founding member of the University of Massachusetts Information Technology Taskforce. 2000-present. This group founded the Interdisciplinary Minor in Information Technology ([www.umass.edu/ITprogram](http://www.umass.edu/ITprogram)).

Panel reviewer – National Science Foundation Digital Society and Technologies program (CISE Directorate); Human Centered Computing Program (2008)

Invited participant – NSF workshop on “Advancing a Basic Research Agenda for Digital Government” sponsored by NSF’s Digital Government program. Harvard University, May 30-June 1, 2002.

Supported the Baltimore Ecosystem Study Long Term Ecological Research group's metadata and data sharing via our Open Research System system and server. 2001-present.

**University Service (2007 - present)**

Co-Director (and founding Director), University of Massachusetts Amherst Open Source lab. 2003-present.  
Associate Director, UMass National Center for Digital Government. 2006-present.  
Chair, Center for Public Policy Director Search Committee -- 2007  
Department of Natural Resource Conservation website committee – 2006-present

Member, UMass Research Library Council – 2007-present (three year term)

Founding Member, UMass Information Technology Program ([www.umass.edu/itprogram](http://www.umass.edu/itprogram)) – 2000-present.

### **Graduate Student Committees**

#### Current Students

Dennis Babassa, PhD (member); Robert English, MPPA; Maria Fernandez, PhD (co-chair); Quentin Lewis, PhD (member); Bayron Milan, PhD (member); Megan O'Connor, PhD (co-chair); Simona Perry, PhD (member); Robert Ricard, PhD (chair); Arnold Sitompul, PhD (member)

#### Previous Students

Alwin Dornelly, MS (member); Eduard Ene, MS (member); Holly Gerhart, MPPA; Mike Hamel, MPPA; Jake Hewes, MS (member); Dimitri Ivanov, MS (member); Brian McCarthy, MPPA advisor; Katja Meinke PhD (member); Andrei Semenov, MS (chair); Zosia Wadoski MPPA advisor; Hariyo Wibisono, MS (member); Yanli Zhang, PhD (member);

### **Research Assistants**

#### Active Research Assistants

Robert English 2005-present; Meelis Kitsing (2007-present); Sandra Haire (2008-present); Maili Paige (2008-present); Qimti Paienjton (2008-present)

#### Past Research Assistants Supported

Maria Fernandez (2006, 2007); Alexander Stepanov 2000-present; Michael Hamel (2006-07); Kristian Hermansen (2005); Quentin Lewis (2007); Andrei Semenov 2001-2007; Jim Peters (2007); David Terrell (2006-07); James Martinez (2008-present)