

Jeffrey D. Hamerlinck

Curriculum Vitae

CURRENT POSITION

Director and Senior Research Scientist

Wyoming Geographic Information Science Center

University of Wyoming, Laramie Wyoming 82071

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PROFILE

Accomplished academic administrator with 16 years' success leading nationally recognized research institute; **skilled educator** in land use and environmental planning, geospatial technologies and field-based landscape studies; **experienced applied researcher** with diverse portfolio of interdisciplinary work in Wyoming, the U.S. Mountain West and Australia.

AREAS OF DISCIPLINARY SPECIALIZATION

- **Planning / Resource Management:** community and rural planning, land use, natural resource management, planning support systems
 - **Geographic Information Science:** decision support systems, geographic visualization, spatial data infrastructures
 - **Regional:** U.S. Mountain West, Australia
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EDUCATION

2011 **Doctor of Philosophy**, Geography, University of Colorado, Boulder, CO

Dissertation: *Planning Support Technology Implementation by Local Governments in the U.S. Mountain West*

1992 **Master of Planning**, Community Planning, University of Wyoming, Laramie, WY

1988 **Bachelor of Science, magna cum laude**, Geography, University of North Dakota, Grand Forks, ND

Other Professional Credentials

2011 **Graduate, Leadership Wyoming** leadership development program, Casper, WY

2007 **Geographic Information Systems Professional** (Certificate #00009040)

GIS Certification Institute, Park Ridge, IL

1998 **American Institute of Certified Planners** (Certificate #013490)

American Planning Association, Washington, DC

ADMINISTRATIVE APPOINTMENTS

2004-Present **Director, Wyoming Geographic Information Science Center**

University of Wyoming, Laramie, WY

2018-2019 **Interim Head, Geography Department**

University of Wyoming, Laramie, WY

2001-2004 **Associate Director, Wyoming Geographic Information Science Center**

University of Wyoming, Laramie, WY

1996-2001 **Technical Coordinator, Spatial Data and Visualization Center**

University of Wyoming, Laramie, WY

1994-1998 **GIS Coordinator, Wyoming Water Resources Center**

University of Wyoming, Laramie, WY

ACADEMIC APPOINTMENTS

- 2014-Present **Senior Research Scientist**, Wyoming Geographic Information Science Center
University of Wyoming, Laramie, WY
- 2018 **Visiting Faculty Researcher**, Sustainability Research Centre
University of the Sunshine Coast, Sippy Downs, Queensland, Australia
- 1998-2014 **Research Scientist**, Department of Geography
University of Wyoming, Laramie, WY
- 1994-1998 **Associate Research Scientist**, Wyoming Water Resources Center
University of Wyoming, Laramie, WY

OTHER APPOINTMENTS AND AFFILIATIONS (selected)

- 2020-Present **Faculty Fellow**, Daniels Fund Ethics Initiative, University of Wyoming
- 2018-Present **Member**, Governor's GIS Advisory Board, State of Wyoming
- 2016-2018 **Editorial Board**, Geographic Information Science & Technology Body of Knowledge, University Consortium for Geographic Information Science
- 2010-2016 **Senior Advisor**, Ruckelshaus Institute of Environment and Natural Resources, Haub School of Environment & Natural Resources, University of Wyoming
- 2015-2018 **Board of Directors**, Spatial Decision Support Consortium
- 2014-2016 **Board of Directors**, GIS Certification Institute
- 2012-2016 **Chair**, Policy & Legislation Committee, University Consortium for Geographic Information Science
- 2012-Present **Member**, Land Use Community of Practice, National Cooperative Extension Service
- 2012 **Member**, Transportation Research Board Expert Task Group on Integration of National-Level Geospatial, Ecological Tools and Data, US National Research Council
- 2011-2013 **Member**, Crucial Habitat Assessment Tool GIS Committee, Western Governors Wildlife Council, Western Governors Association
- 2009-2014 **Editor**, Decision Context Section, Spatial Decision Support Knowledge Portal, Redlands University

HONORS AND AWARDS (selected)

- 2018 **Catalyst Geospatial Excellence Award** (on behalf of WyGIS), National States Geographic Information Council
- 2012 **Certificate of Appreciation** (on behalf of WyGIS), Wyoming Land Conservation Initiative, U.S. Department of the Interior
- 2006 **Special Achievement in GIS Award** (on behalf of WyGIS), Environmental Systems Research Institute, Inc.
- 2004 **Awardee, Vespucci Institute Summer School Scholarship**, Fiesole, Italy and National Center for Geographic Information and Analysis, University of Buffalo, Buffalo, NY
- 1991 **Inductee, Phi Kappa Phi** academic honor society
- 1986 **Inductee, Gamma Theta Upsilon** geography honor society

TEACHING AND ADVISING (recent)

- **Undergraduate Courses Taught:** Land Use Planning; Environmental Planning; Legal Aspects of Planning; Topics in Environment & Natural Resources - Land Use in Wyoming & the West; Foundations of Geographic Information and Science & Technology; Cartography & Map Design
- **Graduate Courses Taught:** Seminar in Spatial Decision Support Systems
- **Field Courses Taught:** Exploring Human and Physical Landscapes of South-East Queensland

- **Graduate Student Committees:** Seven committees chaired or co-chaired; membership on 28 additional thesis or dissertation committees.
- **Other Advising:** Past mentor in Minority High School Student Research Apprentice Program, and past advisor for McNair Scholar Program; advisor for numerous undergraduate Geography majors as Interim Head of Geography Department.

PROFESSIONAL INTERNATIONAL EXPERIENCE

- **Australia (2006, 2014-Present):** Collaborative land use management research in South-East Queensland with partners at University of Sunshine Coast; guest lectures at U. Sunshine Coast and University of Queensland.
- **Guatemala (July 2012):** Participated in Lake Atitlán water quality research scoping activity with collaborators from the Universidad del Valle de Guatemala.
- **Russia (March 2006):** Guest lectured at Saratov State University and explored ecotourism spatial planning opportunities at Khvalynsky National Park.

PUBLICATIONS

Refereed Journal Articles

- Berendsen, M.E., **J.D. Hamerlinck**, and G.R. Webster. 2018. Digital story mapping to advance educational atlas design and enable student engagement. *ISPRS International Journal of Geo-Information*. 7(3): 25 (23 pp.).
- Hamerlinck, J.D.** 2015. Whither Goes the ‘maps’ course? Maintaining map use concepts, skills and appreciation in GIS&T curricula. *Cartography and Geographic Information Science* 42 (S1): S11-S17.
- Hamerlinck, J.D.** and S.N. Lieske. 2015. Siting carbon conversion energy facilities with spatial multi-criteria decision analysis. *Papers in Applied Geography* 1(2): 197-204.
- Lieske, S.N. and **J.D. Hamerlinck**. 2015. Integrating planning support systems and multicriteria evaluation for energy facility site suitability evaluation. *URISA Journal*. 26 (1) 13-24.
- Lieske, S.N. and **J.D. Hamerlinck**. 2013. Planning support systems applications in site planning. *Urban Design and Planning*, 166: 34-42.
- Hamerlinck, J.D.**; T.B. Wyckoff; J.R. Oakleaf; and P.L. Polzer. 2010. Cyberinfrastructure for collaborative geologic carbon sequestration research: a conceptual model, *Rocky Mountain Geology*, 45(2): 163-180.
- J.D. Hamerlinck** and S.N. Lieske. 2008. Modeling downtown parking requirements with planning support systems in Sheridan, Wyoming. *The Western Planner Journal*, 29(3): 4-7.
- Berelson, W.L., P.A. Caffrey, and **J.D. Hamerlinck**. 2004. Mapping hydrologic units for the National Watershed Boundary Dataset. *Journal of the American Water Resources Association*, 40(5): 1231-1246.
- Hoobler, B.M., G.F. Vance, **J.D. Hamerlinck**, L.C. Munn, and J.A. Hayward. 2003. Applications of land evaluation and site assessment (LESA) and a geographic information system in East Park County, Wyoming. *Journal of Soil and Water Conservation*, 58 (2): 105-112.
- Berendsen, M. E., **J.D. Hamerlinck** and L. Wayne. 2003. *Framework and strategies for integrating metadata concepts with geographic information science curricula*. *Journal of the Urban and Regional Information Systems Association*, 15(1): 37-46.
- Zhang, R., **J.D. Hamerlinck**, S.P. Gloss, and L. Munn. 1996. Determination of nonpoint-source pollution using GIS and numerical models. *Journal of Environmental Quality* 25 (3): 411-418.
- Gribb, W.J. and **J.D. Hamerlinck**. 1990. A micro-scale analysis of recreational facilities location: A case study of Grayrocks Reservoir, Wyoming. *Great Plains-Rocky Mountain Geographical Journal* 18 (December): 90-101.

Books

- Hamerlinck, J.D.**, G.R. Webster, and M.E. Berendsen, eds. 2014. *Wyoming Student Atlas: Exploring Our Geography*. Laramie, WY: University of Wyoming.

Refereed Book Chapters

- Hamerlinck, J.D.** 2020. Applying planning support science in rural environments. Chapter 33 in Geertman, S. and J. Stillwell, eds. *Handbook of Planning Support Science*. Edward Elgar Publishers: Cheltenham, UK: 524-537.
- Lieske, S.N., R.H. Coupal, **J.D. Hamerlinck**, D.M. McLeod, and A.M. Scofield. 2013. Planning support systems for fiscally sustainable planning. In: Geertman, S., F. Toppen and J. Stillwell, eds. *Planning Support Systems for Sustainable Urban Development*. Springer: Berlin: 127-147.
- Lieske, S.N.; S. Mullen; and **J.D. Hamerlinck**. 2009. Enhancing comprehensive planning with public engagement and planning support integration, Chapter 15 in Geertman, S. and J. Stillwell, eds. *Planning Support Systems: Best Practice and New Methods*. Springer: Berlin: 295-315.

Refereed Proceedings/Transactions

- Hamerlinck, J.D.** 2015. Naive (commonsense) geography and geobrowser usability after ten years of Google Earth. In: *Proceedings of the 9th International Symposium on Digital Earth* held in Halifax, Nova Scotia, Canada, October 5-9, 2015. IOP Conf. Ser.: Earth Environ. Sci. 34, 12013.
- Hamerlinck, J.D.** 2013. Case Study Analysis of Planning Support System Implementation in Local Comprehensive Planning. In: *Proceedings of CUPUM 2013 – 13th International Conference on Computers in Urban Planning and Urban Management*, Geertman, S., F. Toppen and J. Stillwell, eds. Utrecht, Netherlands, July 2 – 5, 2013. (online)
- Lieske S.N.; K. Lyons; **J.D. Hamerlinck**; and N. Vock. 2008. GIS-Based Evaluation of Rural Economic Opportunity in Hunchy, Queensland. In the peer reviewed *Proceedings of the Queensland Spatial Conference*. July 17-19, Surfer's Paradise, Qld., Australia. (CDROM)
- Shang, Z. and **J.D. Hamerlinck**. 2007. Using statistics and spatial data mining to study land cover in Wyoming: Can we predict vegetation types from environmental variables? In *Workshop Proceedings, Seventh IEEE International Conference on Data Mining held in Omaha, NE, October 2007*, edited by Anthony K.H. Tung and Qiuming Zhu. Los Alamitos, California: IEEE Computer Society Press: 661-666.
- Hamerlinck, J.D.** and J.R. Oakleaf. 1997. Utilizing geographic information systems technology in the Wyoming cumulative hydrologic impact assessment modeling process. In *Vision 2000 - An Environmental Commitment: Proceedings of the 14th Annual National Meeting of the American Society for Surface Mining and Reclamation held in Austin, Texas, May 1997*, edited by J.E. Brandt. Princeton, West Virginia: American Society for Surface Mining and Reclamation, 667-676.
- Hamerlinck, J.D.** 1997. WaterDivII GIS: Prototype toolbox for dynamic water planning in Wyoming. In *Proceedings, Wyoming Water '97 held in Casper, Wyoming, April 1997*, edited by C. Goertler, by the Wyoming Water Resources Center. Laramie, Wyoming: Wyoming Water Resources Center, 38-42.
- Oakleaf, J.R. and **J.D. Hamerlinck, J.D.** 1997. Integrating GIS technology into ground water and surface water modeling associated with Wyoming's cumulative hydrologic impact assessment process. In *Proceedings, Wyoming Water '97 held in Casper, Wyoming, April 1997*, edited by C. Goertler, by the Wyoming Water Resources Center. Laramie, Wyoming: Wyoming Water Resources Center, 25-33.

Non-Refereed Proceedings/Transactions (selected)

- Lieske, S.N. and **J.D. Hamerlinck**. 2013. Planning Support System-enabled Multi-scale Energy Facility Siting. In: *Proceedings, 2013 Association of European Schools of Planning-Association of Collegiate Schools of Planning (AESOP-ACSP) Joint Congress, Planning for Resilient Cities and Regions*, Dublin, July 2013.
- Hamerlinck, J.D.** 2010. *Planning Support System Implementation in Rural Local Planning*. In: Proceedings, Association of Collegiate Schools of Planning (ACSP) Annual Conference, Minneapolis, MN, October 2010.

- Oakleaf, J.R.; **J.D. Hamerlinck**; and D.A. Rush. 2005. *Integrating GIS for Decision Makers in Wyoming through Internet Services*. In: Proceedings, GeoTec Conference, Vancouver, British Columbia, Canada, February 2005.
- Lieske, S.N., **J.D. Hamerlinck**, D.M. Feeney, A. Frank, D.G. Hulme, M. Knapp, K. Mays, and S. Mullen. 2003. Aquifer protection and CommunityViz™ in Albany County, Wyoming. In *GIS Serving Our World: Proceedings of the 23rd Annual ESRI User Conference held in San Diego, California, July 2003*, by Environmental Systems Research Institute, Inc., Redlands, California: Environmental Systems Research Institute, Inc., CD-ROM Paper No. 347. 18 pp.
- Berelson, W.L., P.A. Caffrey, and **J.D. Hamerlinck**. 2001. Creating hydrologic unit boundaries for Wyoming: a semi-automated approach. In *Geography Creating Communities: Proceedings of the 21st Annual ESRI User Conference held in San Diego, California, July 2001*, by Environmental Systems Research Institute, Inc., Redlands, California: Environmental Systems Research Institute, Inc., CD-ROM Paper No. 707.
- Gribb, W.J., S. F. Robinson, and **J.D. Hamerlinck**. 2001. Applying ArcView Spatial Analyst software's ModelBuilder to habitat conservation planning. In *Geography Creating Communities: Proceedings of the 21st Annual ESRI User Conference held in San Diego, California, July 2001*, by Environmental Systems Research Institute, Inc., Redlands, California: Environmental Systems Research Institute, Inc., CD-ROM Paper No. 788.
- Johnson, J.H., **J. D. Hamerlinck**, and J.H. Gillham. 2001. An ArcView-based application for the management of noxious weed species in Wyoming. In *Geography Creating Communities: Proceedings of the 21st Annual ESRI User Conference held in San Diego, California, July 2001*, by Environmental Systems Research Institute, Inc., Redlands, California: Environmental Systems Research Institute, Inc., CD-ROM Paper No. 770.
- Scarrah, P.R. and **J.D. Hamerlinck**. 1998. Development of the Greater Yellowstone Area Data Clearinghouse. In *Geography Matters: Proceedings of the 18th Annual ESRI User Conference held in San Diego, California, July 1998*, by Environmental Systems Research Institute, Inc. Redlands, California: Environmental Systems Research Institute, Inc., CD-ROM Paper No. 220.
- Hamerlinck, J.D.** and K.S. Gallander. 1998. Applying NSDI framework principles in the Greater Yellowstone Area, USA. In *Pathways to Knowledge Integration: Proceedings of GIS '98/RT '98 held in Toronto, Canada, April 1998*, by Adams/GIS World. Fort Collins, Colorado: GIS World, Inc., 372-375.
- Berelson, W.L., J.R. Oakleaf, **J.D. Hamerlinck**, and S.P. Gloss. 1998. Good GUIs make good neighbors: conflict resolution in open space management. In *Pathways to Knowledge Integration: Proceedings of GIS '98/RT '98 held in Toronto, Canada, April 1998*, by Adams/GIS World. Fort Collins, Colorado: GIS World, Inc., 390-393.
- Arneson, C.S., **J.D. Hamerlinck**, and S.P. Gloss. 1997. Ground water protection issues: Proactive ground water resource management and the Wyoming ground water vulnerability mapping project. In *Proceedings of the Wyoming Water Law Conference held in Cheyenne, Wyoming*, 87-103. Denver, Colorado: CLE International.
- Reddy, K.J., C.S. Arneson, and **J.D. Hamerlinck**. 1997. Assessment of groundwater vulnerability ratings for nitrate and pesticides in intensively agricultural areas. In *Proceedings of the 4th International Conference on the Biogeochemistry of Trace Elements held at the University of California, Berkeley, California, June 1997*, edited by I.K. Iskandar, et al. Hanover, NH: U.S. Army Corps of Engineers Cold Regions Research and Engineering Laboratory, 603-604.

Technical Reports (selected)

- Baldwin, C. and **J.D. Hamerlinck**. 2018. *Noosa Shire Hinterland Rural Enterprise Plan Research Study Final Report*. Sippy Downs, QLD: University of the Sunshine Coast. 51 pp.
- Hamerlinck, J.D.** and T.B. Wyckoff. 2017. *Integrated Resource Management Analyst – Oregon: Phase One / Phase Two Needs Assessment*. Laramie, Wyoming: Wyoming Geographic Information Science Center. 19 pp.

- Hodza, P., **J.D. Hamerlinck**, S.G. Lanning, and P.L. Polzer. 2014. *Wyoming Statewide Geospatial Data Clearinghouse Enterprise Architecture Design Document*. WyGIS Report No. 2014-002. Laramie, WY: Wyoming Geographic Information Science Center, University of Wyoming. 17 pp.
- Hodza, P. and **J.D. Hamerlinck**. 2014. *Wyoming Geospatial Stakeholders Workshop Report*. WyGIS Report No. 2014-001. Laramie, WY: Wyoming Geographic Information Science Center, University of Wyoming. 7 pp.
- Wyckoff, T.B. and **J.D. Hamerlinck**. 2012. *Protected Areas Database (PAD-US) State Data Steward Project for Wyoming*. Wyoming Geographic Information Science Center, University of Wyoming: Laramie, WY. 6 pp.
- Idaho National Laboratory (**J.D. Hamerlinck**, contributing author). 2012. *Energy Development Opportunities for Wyoming*, Report INL/EXT-12-26732. Published by the Idaho National Laboratory, in collaboration with the Wyoming Business Council, the University of Wyoming and NGNP Industry Alliance, Limited. Idaho Falls, ID, November 2012.
- Berendsen, M.A., S.G. Lanning, and **J.D. Hamerlinck**. 2010. *Developing NSDI Framework Data: ANSI Framework Data Content Standards Guidance Document*. Washington, DC: Federal Geographic Data Committee. 128 pp.
- Hulme, D., C. Anderson, K. Parady, **J.D. Hamerlinck**, S. Lieske, and I. Burke. 2009. *Wyoming's State of the Space: A Comprehensive Review of Land Use Trends in Wyoming*. William D. Ruckelshaus Institute of Environment and Natural Resources, University of Wyoming: Laramie, WY. 70 pp.
- Rodemaker, E.J., **J.D. Hamerlinck**, J.R. Oakleaf, and Z. Shang. 2009. *Wyoming Governor's Sage-Grouse Conservation Initiative: Habitat Mapping Project, Final Report – Data Gathering, Integration, Dissemination, and Maintenance*. Wyoming Geographic Information Science Center, University of Wyoming: Laramie, WY. 154 pp.
- Hamerlinck, J.D.**, Ed. 2007. *State of Wyoming Strategic Plan for Statewide Geographic Information Systems Coordination, revised*. Wyoming Office of the Chief Information Officer: Cheyenne, WY. 29 pp.
- Kipfer, T., A. Jones, A., R. Lee, P. Rich, K. Updegraff, and **J.D. Hamerlinck**. 2006. *Big Sky Geographic Information System (GIS) / Carbon Atlas Plan*. Big Sky Carbon Sequestration Partnership, Montana State University: Bozeman, MT. 16 pp.
- Lee, N.A., **J.D. Hamerlinck**, S.G. Lanning, and T.M. Sprague. 2005. *Final Technical Report: Region-Wide Ecological Driver Geospatial Data Collection Project*. Aquatic, Riparian, and Wetland Ecological Assessments, Species Conservation Project, USDA Forest Service, Rocky Mountain Region: Golden, CO. 16 pp.
- Ruckelshaus Institute of Environment and Natural Resources (**J.D. Hamerlinck** as contributing author). 2005. *Water Production from Coalbed Methane Development in Wyoming: A Summary of Quantity, Quality and Management Options*. Ruckelshaus Institute of Environment and Natural Resources, University of Wyoming: Laramie, WY, 2005. 64 pp.
- Hamerlinck, J.D.** and P. Crist. 2004. *VISTA Decision Support System White Paper: Conceptual Planning Process Integration and Opportunities for Ties to Existing Planning Support System Tools*. NatureServe: Washington, DC.
- Lieske, S.N., S. Mullen, M. Knapp, and **J.D. Hamerlinck**. 2003. *Wyoming CommunityViz™ Partnership Phase I Pilot: Aquifer Protection and CommunityViz™ in Albany County, Wyoming* (final report). Laramie, WY: University of Wyoming. 46 pp.
- Hamerlinck, J.D.**; D. Staley; and D. Winters. 2003. Ecosystem Delineation and Information Management Framework, Chapter Two In: Winters et al. *Conceptual Framework and Protocols for Conducting Broad Scale Aquatic, Riparian and Wetland Ecological Assessments*. USDA Forest Service, Rocky Mountain Region: Golden, CO: 20-35.
- Kohley, T.W., R.C. Warner, M.E. Anderson, and **J.D. Hamerlinck**. 2002. *Research and Development of a GIS-Based Data Management and Model Integration Tool for Coal Mine Permitting and Reclamation in Wyoming: Final Project Report*. Laramie, WY: University of Wyoming Abandoned Coal Mine Lands Research Program. 48 pp.
- Hamerlinck, J.D.**, M.E. Anderson, J.H. Johnson, K.T. Peacock, and G.E. Jones. 1999. *Methodology for the design and development of a GIS-Based spatial decision support system for assessing the hydrologic impacts of*

coal mining and mine land reclamation in Wyoming. Laramie, Wyoming: Spatial Data and Visualization Center, University of Wyoming. SDVC Report 99-01

Kohley, T.W., **J.D. Hamerlinck**, M.E. Herdendorf, P. Crist, and S.P. Gloss. 1998. *The Wyoming BioInformation Node: A state-level implementation of the National Biological Information Infrastructure*. Laramie, Wyoming: Spatial Data and Visualization Center, University of Wyoming. SDVC Report 98-02

Hamerlinck, J.D. and C.S. Arneson, eds. 1998. *Wyoming ground water vulnerability assessment handbook*, Vol. II, *Assessing ground-water vulnerability to pesticides*. Laramie, Wyoming: Spatial Data and Visualization Center, University of Wyoming. SDVC Report 98-01-2

Hamerlinck, J.D. and C.S. Arneson, eds. 1998. *Wyoming ground water vulnerability assessment handbook*, Vol. I, *Background, model development, and aquifer sensitivity analysis*. Laramie, Wyoming: Spatial Data and Visualization Center, University of Wyoming. SDVC Report 98-01-1

Encyclopedia Entries

Hamerlinck, J. D. 2020. U.S. National Spatial Data Infrastructure. *The Geographic Information Science & Technology Body of Knowledge* (2nd Quarter 2020 Edition), John P. Wilson (ed.).

Hamerlinck, J.D. 2010. GIS in land use management, *In: Encyclopedia of Geography*, B. Warf, editor. SAGE Publications: Thousand Oaks, CA: 1302-1305.

Hamerlinck, J.D. 2008. Framework data, *In: Encyclopedia of Geographic Information Science*, K.K. Kemp, editor. SAGE Publications: Thousand Oaks, CA: 151-154.

Reviews

Hamerlinck, J.D. 2009. Review of *New Geographies of the American West: Land Use and the Changing Patterns of Place*, by William R. Travis. *Journal of the American Planning Association*, 75 (1): 92-93.

Hamerlinck, J.D. 2000. Review of *GIS Solutions in Natural Resource Management: Balancing the Technical-Political Equation*, Stan Morain, Editor, *In Geospatial Solutions*, October 2000: 50-51.

Hamerlinck, J.D. 1988. Review of *The urbanization of America*, 2d ed., by Z.L. Miller and P.M. Melvin, *In Bulletin: Association of North Dakota Geographers* 38: 81.

Other Publications (selected)

Gribb, W.J. and **J.D. Hamerlinck**. 2018. *The Legal Basis of Planning in Wyoming*. Ruckelshaus Institute publication series on local government land-use planning in Wyoming, CES Publication B-1323. University of Wyoming Ruckelshaus Institute: Laramie, WY. 12 pp.

Hamerlinck, J.D. and W.J. Gribb. 2016. *Local Government Land Use Planning in Wyoming: Purpose, Process and Benefits*. Ruckelshaus Institute publication series on local government land-use planning in Wyoming, CES Publication B-1292. University of Wyoming Ruckelshaus Institute: Laramie, WY. 12 pp.

Schmidt, L.O.; L. Phillips and **J.D. Hamerlinck**. 2015. University of Wyoming E-Research Strategic Agenda 2015. Laramie, WY: University Libraries, University of Wyoming. 18 pp.

Hamerlinck, J.D., S.N. Lieske, and W.J. Gribb. 2013. *Understanding Wyoming's Land Resources: Land-Use Patterns and Development Trends*, Ruckelshaus Institute publication series on local government land-use planning in Wyoming, CES Publication B-1244. University of Wyoming Ruckelshaus Institute: Laramie, WY. 16 pp.

Lieske, S.N.; M. Ashby; J. Corso; M. Matsen; and **J.D. Hamerlinck**. 2007. *Geospatial technologies and scenario planning for interchange development in Cheyenne, Wyoming*. METROS Quarterly, Spring/Summer 2007: 8.

Hamerlinck J.D.; D.G. Hulme; S.N. Lieske; and M. Randolph M. 2004. *Using Planning Support Software in Rural Land Use Planning*. Information Technology Division of the American Planning Association, Infotext #80.

Hamerlinck, J.D., D.G. Hulme, S.N. Lieske, and M. Randolph. 2004. The Wyoming CommunityViz™ Partnership. *Reflections*, an annual publication of the University of Wyoming Agricultural Experiment Station, 28-30.

RESEARCH FUNDING

As Principal Investigator (selected)

- 2018 – 2020 *Natural Resource and Energy Explorer Stewardship*. PI: J.D. Hamerlinck; Co-PI: T.B. Wyckoff. Wyoming Business Council funding, \$121,000.
- 2018 *Exploring Multifunctional Rural Landscapes in Australia: Noosa Hinterlands, Darling Downs, and New England Tableland*. PI: J.D. Hamerlinck. University of Wyoming Center for Global Studies Faculty Research Grant funding, \$5,000.
- 2016 – 2021 *Integrated Resource Management Analyst Wyoming 2.0*. PI: J.D. Hamerlinck; Co-PI: T.B. Wyckoff. USDA Natural Resources Conservation Service funding, \$137,000.
- 2014-2018 *Natural Resource and Energy Explorer*. PI: J.D. Hamerlinck. Co-PI: P. Hodza. State of Wyoming Office of the Governor and Wyoming Business Council funding, \$181,433.
- 2013-2015 *Development of a Statewide Geospatial Data Clearinghouse*. PI: J.D. Hamerlinck. Co-PI: P. Hodza. State of Wyoming Office of the Chief Information Officer, Enterprise Technology Services funding, \$300,000.
- 2012-2013 *SuiteWater II*. PI: J.D. Hamerlinck. Co-PIs: T.B. Wyckoff and P.L. Polzer. Wyoming Association of Conservation Districts funding, \$29,465.
- 2012-2013 *Crucial Habitat Assessment Tool Work Group Support*. PI: J.D. Hamerlinck. Western Governors' Association funding, \$46,058.
- 2012 *Energy Development Opportunities for Wyoming – Site Suitability Analysis*. PI: J.D. Hamerlinck. Idaho National Laboratory funding, \$12,000.
- 2011-2014 *Density and Disturbance Calculation Tool – Software Application Development and Support*. PI: J.D. Hamerlinck. Wyoming Game and Fish Department funding, \$160,000.
- 2011-2012 *Wyoming Update for US-PAD (Protected Areas Database)*. PI: J.D. Hamerlinck; Co-PI: T.B. Wyckoff. USGS National Gap Analysis Program funding, \$21,405.
- 2010-2011 *Redesigning Map Use and Analysis: Laboratory Development and Information Literacy Integration*. PI: J.D. Hamerlinck; Wyoming NASA Space Grant Faculty Education Enhancement Grant funding, \$9,804.
- 2008-2009 *Cyberinfrastructure Development*. PI: J.D. Hamerlinck. Task 1.5 in Carbon Sequestration Monitoring Activities (PI: C. Frost). U.S. Department of Energy funding, \$79,017.
- 2007-2008 *GEOLEM: Improving the Integration of Geographic Information in Environmental Modeling – Metadata and Spatial Data Infrastructure Considerations*. PI: J.D. Hamerlinck. U.S. Geological Survey funding, \$19,500.
- 2005-2010 *National Spatial Data Infrastructure Framework Standards Materials Development and GIScience Curriculum Integration*. PI: J.D. Hamerlinck; Co-PI: S.D. Prager; S.G Lanning. USDI Federal Geographic Data Committee funding, \$255,000.
- 2005-2006 *Big Sky Carbon Sequestration Regional Partnership - GIS Program Support (University of Wyoming, Phase I and II)*. PI: J.D. Hamerlinck. Department of Energy / Montana State University sub-award, \$50,000.
- 2004-2010 *NRCS GIS Partnership Agreement*. PI: J.D. Hamerlinck; CoPI: J.R. Oakleaf. USDA Natural Resource Conservation Service funding, \$50,000
- 2003-2004 *GMUG-San Juan National Forest Aquatic Resource Assessment I and II*. PI: J.D. Hamerlinck. U.S. Forest Service funding, \$151,500.
- 2002-2003 *Wyoming Natural Resources Data Clearinghouse/OGC Web Mapping Service Implementation*. PI: Hamerlinck, J.D. CoPIs: M.E. Berendsen and J.R. Oakleaf. Federal Geographic Data Committee FY 2002 Cooperative Agreements Program funding, \$19,968.
- 2002-2003 *Wyoming CommunityViz Partnership, Phase I – Albany County Pilot Project*. PI: Hamerlinck, J.D. CoPI: D. Hulme. Wyoming Business Council and Wyoming Community Foundation funding, \$60,000.

- 2001-2004 *Bighorn National Forest Aquatic Resource Assessment*. PI: Hamerlinck, J.D. U.S. Forest Service funding, \$128,061.
- 2001-2002 *Development of an Interactive Geologic, Hydrologic, and Water Quality Database, Northern Powder River Basin, Wyoming*. PI: Hamerlinck, J.D. CoPIs: J.H. Johnson and W.A. Reiners. Wyoming State Geologic Survey funding, \$80,000.
- 2000-2002 *Development of a Desktop GIS Application in Support of Erosion Potential Modeling in the Powder River Basin, Wyoming*. PI: Hamerlinck, J.D. CoPIs: J.H. Johnson and G.V. Wilkerson. Wyoming Water Development Commission Coal Bed Methane Research Projects funding, \$19,982.
- 2000-2001 *BLM Master Title Plat Development*. PI: Hamerlinck, J.D. USDI Bureau of Land Management funding, \$33,000.
- 2000-2001 *Wyoming Sourcewater Assessment Program: Global Positioning System-Based Mapping of Public Water System Facilities in Wyoming III*. PI: Hamerlinck, J.D. CoPI: J.H. Johnson. Wyoming Department of Environmental Quality funding, \$33,000.
- 2000-2001 *Coal Bed Methane Reservoir Management GIS Database*. PI: Hamerlinck, J.D. CoPIs: J.H. Johnson. USDI Bureau of Land Management funding, \$31,000.
- 1999-2000 *Wyoming Sourcewater Assessment Program: Wellhead Protection Area Delineation Digitization*. PI: Hamerlinck, J.D. CoPI: H.P. Heasler. Wyoming Department of Environmental Quality funding, \$12,818.
- 1999-2001 *Delineation of 5th and 6th Level Watersheds in Wyoming*. PI: Hamerlinck, J.D. CoPI: H.P. Heasler. Wyoming Department of Environmental Quality and USDI Bureau of Land Management funding, \$233,218.
- 1999-2000 *Prototype Development of a Spatial Decision Support System for Weeds Management*. PI: Hamerlinck, J.D. CoPI: H.P. Heasler. USDI Bureau of Land Management funding, \$25,000.
- 1999-2000 *Development of an FGDC-Compliant NSDI Data Clearinghouse for the Bureau of Land Management in Wyoming*. PI: Hamerlinck, J.D. CoPI: H.P. Heasler. USDI Bureau of Land Management funding, \$25,000.
- 1999-2000 *Wyoming Sourcewater Assessment Program: Global Positioning System-Based Mapping of Public Water System Facilities in Wyoming II*. PI: Hamerlinck, J.D. CoPI: H.P. Heasler. Wyoming Department of Environmental Quality funding, \$31,128.
- 1999-2000 *Developing an Enhanced Framework for Visualization and Distribution of Digital Spatial Water Resources Data in Wyoming*. PI: Hamerlinck, J.D. CoPIs: C.S. Arneson and H.P. Heasler. US Geological Survey Water Resources Research Institute Program funding, \$37,448.
- 1998-1999 *Opportunity and Foundation for a Multi-Agency Planning Effort in Kelly, Wyoming*. PI: Hamerlinck, J.D. CoPI: K. S. Gallander. Grand Teton National Park and Teton County, Wyoming funding, \$5,235.
- 1997-1998 *Greater Yellowstone Area National Spatial Data Infrastructure Initiative: County Outreach Program*. PI: Hamerlinck, J.D. Federal Geographic Data Committee and USDI National Park Service funding, \$25,540.
- 1997-1998 *Greater Yellowstone Area National Spatial Data Infrastructure Initiative: Kelly, WY Framework Demonstration Project*. PI: Hamerlinck, J.D. Federal Geographic Data Committee and USDI National Park Service funding, \$9,960.
- 1996-1998 *Greater Yellowstone Area National Spatial Data Infrastructure Initiative: Snake River Corridor Geospatial Data Node*. PI: Hamerlinck, J.D. CoPI: T.W. Kohley. Federal Geographic Data Committee and USDI National Park Service funding, \$35,000.
- 1996-1998 *Wyoming Open Lands GIS Collaboration*. PI: Hamerlinck, J.D. CoPIs: J.R. Oakleaf, and S.P. Gloss. Wyoming Open Lands Project funding, \$5,000.

- 1996-1998 *Development of a GIS-Based Decision Support System for CHIA/PHC Mine Hydrology Modeling.* PI: Hamerlinck, J.D. CoPIs: J.R. Oakleaf, T.J. Anderson, and K. Peacock. Wyoming Abandoned Coal Mine Land Research Program funding, \$119,839.
- 1997-1998 *A Spatial Decision Support System and Database Development for Wetland Management and Mitigation Banking in Wyoming.* PI: Hamerlinck, J.D. CoPIs: J.R. Oakleaf, and C. Goertler. Wyoming Water Resources Center State Grants-in-Aid funding, \$23,155.
- 1995-1996 *Global Positioning System-Based Mapping of Public Water System Facilities in Wyoming.* PI: Hamerlinck, J.D. CoPI: J.R. Oakleaf. Wyoming Department of Environmental Quality/Water Quality Division funding, \$53,000.
- 1996-1999 *Assessing Vulnerability of Aquifers in Wyoming to Contamination, Phase IV: Statewide Intermediate-Scale Vulnerability Mapping using a Geographic Information System.* PI: Hamerlinck, J.D. CoPI: C.S. Arneson and others. Wyoming Department of Environmental Quality/Water Quality Division and USEPA funding, \$187,913.
- 1995-1997 *Wyoming Initiative: CHIA/GIS Integration.* PI: Hamerlinck, J.D. CoPI: J.R. Oakleaf. Wyoming Department of Environmental Quality/Land Quality Division and USDI Office of Surface Mining funding, \$15,823.
- 1995-1998 *Snake River Basin Water Resources Geographic Information System.* PI: Hamerlinck, J.D. CoPI: T.W. Kohley. Wyoming Water Resources Center State Grants-in-Aid funding, \$57,525.

As Co-Principal Investigator (selected)

- 2017-2020 *Exploring Links between STEM Success and Spatial Skills: Undergraduate GIS Courses and a Spatial Turn of Mind.* PI: N.S. Newcombe; Co-PIs: J.D. Hamerlinck, P. Hodza, and M. Minear. US National Science Foundation funding, \$1,481,139.
- 2013-2015 *Developing a Database and Web Viewing Tool for Ungulate Migrations in Wyoming.* PI: M. Kauffman. Co-PIs: B. Rudd, S. Albeke, and J.D. Hamerlinck. Wyoming Department of Transportation, Programming Research Unit funding, \$263,516.
- 2013-2015 *WyoBio Web Portal.* PI: S.E. Albeke; Co-PIs: T.B. Wyckoff, J.D. Hamerlinck. University of Wyoming Biodiversity Institute funding, \$200,000.
- 2010-2013 *Wyoming Interagency Spatial Database and Online Management Tools for Wildlife.* PI: J.R. Oakleaf; Co-PI: J.D. Hamerlinck. US Department of Energy, Western Governors Association, and Wyoming Game and Fish Department funding, \$150,000.
- 2010-2012 *Research and Development of a GIS-Based Wildlife Resource Management and Mitigation Decision Support System Tool.* PI: J.R. Oakleaf; Co-PI: J.D. Hamerlinck. University of Wyoming School of Energy Resources Matching Grant Program funding, \$76,476.
- 2008-2009 *Wyoming Governor's Sage Grouse Initiative, Statewide Sagebrush Mapping.* PI: E. Rodemaker; Co-PI: J.R. Oakleaf, Z. Shang, and J.D. Hamerlinck. Wyoming Game & Fish funding, \$560,000.
- 2007-2013 *Wyoming Travel & Tourism GIS.* PI: J.R. Oakleaf; CoPI: J.D. Hamerlinck. Wyoming Business Council funding, 211,000.
- 2007 *Albany County Comprehensive Plan.* PI: H. Bergman; D.G. Hulme; J.D. Hamerlinck. Albany County, Wyoming funding, \$35,000
- 2006-2008 *Wyoming Energy Resources Information Clearinghouse.* PI: D.G. Hulme; CoPIs: J.D. Hamerlinck; H. Bergman; J.R. Oakleaf. Department of Energy funding, \$481,000
- 2006-2007 FEMA Best Practices Grant: Flood Hazard Mapping / Map on Demand Management Support. PI: J.R. Oakleaf; CoPI: J.D. Hamerlinck. Wyoming Office of Homeland Security funding, \$49,852
- 2006-2007 *Cumulative Impacts Spatial Decision Support Enhancements.* PI: J.R. Oakleaf; CoPI: J.D. Hamerlinck. Wyoming Game & Fish Department funding, \$10,000
- 2006-2007 *Wyoming State Forestry Spatial Analysis Project.* PI: J.R. Oakleaf; CoPI: J.D. Hamerlinck. Office of State Lands and Investments funding, \$41,220

- 2005-2008 *Analysis of the Impacts of Wyoming Water Development Commission Regional Water System Projects.* PI: H. Bergman; CoPIs: D.G. Hulme; D.M. McLeod; R. Coupal; J.D. Hamerlinck. Wyoming Water Development Commission funding, \$150,000
- 2005-2007 Flood Hazard Mapping / Map on Demand Management Support. PI: J.R. Oakleaf; CoPI: J.D. Hamerlinck. Wyoming Office of Homeland Security funding, \$211,260
- 2002-2004 *Design and Development of an Interagency Coal-Bed Methane Information Clearinghouse in Wyoming, Phase I.* PI: Bergman, H. L. CoPIs: W.A. Reiners, D. J. Hulme, and J.D. Hamerlinck. USDI Bureau of Land Management funding, \$80,000.
- 2002-2003 *Evaluation of Effects of Land Application of Coal Bed Methane produced water on Powder River Basin Soils, Powder River Basin, Wyoming and Montana.* PI: Vance, G.F. CoPIs: L.C. Munn, R. Zhang, J.D. Hamerlinck, and B.K. Schladweiler. USDI Bureau of Land Management funding, \$143,500.
- 2001-2002 *National Hydrography Dataset Creation and Attribution, Pinedale Resource Area.* PI: Caffrey, P.A. CoPIs: W.L. Berelson and J.D. Hamerlinck. USDI Bureau of Land Management funding, \$92,000.
- 2001-2002 *Statewide Groundwater Protection Strategy, Phase II.* PI: Bedessem, M.E. CoPI: J.H. Johnson and J.D. Hamerlinck. Wyoming Department of Environmental Quality funding, \$41,741.
- 2001 *Watershed Boundary Dataset Acceleration and NHD Integration Pilot.* PI: W.L. Berelson CoPIs: P A. Caffrey and J.D. Hamerlinck. USDI Bureau of Land Management funding, \$26,405.
- 2000-2004 *Phytoremediation of Petroleum Contaminated Soil on the BP-Amoco Tank Farm.* PI: Stahl, P.D. CoPIs: K.J. Reddy, J.D. Rodgers, D.W. Johnson, M.E. Bedessem, J.H. Johnson, J.D. Hamerlinck, and B.L. Perryman. BP-Amoco funding, \$527,892.
- 2000-2002 *Development of a Decision Support System and Databases for Agrochemical Management.* PI: Zhang, R. CoPIs: J.D. Hamerlinck, S. Mishra, L.C. Munn, and G.F. Vance. Wyoming Agricultural Experiment Station Competitive Grant Program funding, \$45,000.
- 2000-2002 *Development of Improved Digital Elevation Models for Burger Draw and Deadhorse Creek, Powder River Basin, Wyoming.* PI: Wilkerson, G.V. CoPIs: L.S. Clampitt and J.D. Hamerlinck. Wyoming Water Development Commission Coal Bed Methane Research Projects funding, \$4,575.
- 1999-2001 *Research and Development of a GIS-Based Data Management and Model Integration Tool for Coal Mine Permitting and Reclamation in Wyoming.* PI: Kohley, T.W. CoPIs: J.D. Hamerlinck, R.C. Warner, P.J. Schwab, G.E. Jones, and L.E. Vicklund. Wyoming Abandoned Coal Mine Land Research Program funding, \$149,917.
- 1997-2000 *Wyoming Agricultural and Land-Resource Management: GIS and LESAs Applications for Developing New Agricultural Commodities and Land Uses.* PI: Vance, G.F. CoPIs: J.D. Hamerlinck, E.R. Hunt, L. Munn, and J.A. Young. Wyoming Agricultural Experiment Station Competitive Grant Program funding, \$60,000.
- 1997-1998 *Mapping Drought in Wyoming Using the Standard Precipitation Index and the Surface Water Supply Index.* PI: Arneson, C.S. CoPIs: J.D. Hamerlinck, V.R. Hasfurther, and J.G. Hiller. Wyoming Water Resources Center State Grants-in-Aid funding, \$14,042.
- 1996-1998 *Development of an NBII Wyoming BioInformation Node.* PI: Kohley, T.W. CoPIs: J.D. Hamerlinck, P.J. Crist and M.D. Jennings. U.S. Geological Survey, Biological Resources Division funding, \$77,000 (\$37,000 to UW; \$30,000 to National GAP).
- 1994-1995 *Development of a Spatial Decision Support Tool for Watershed Managers using Distribution and Conservation Status Data for the Colorado River Cutthroat Trout.* PI: Needham, S. CoPI: J.D. Hamerlinck, T.W. Kohley. USDA Forest Service Region II Fish Habitat Relationships Program funding, \$12,540.
- 1994-1995 *Assessing Vulnerability of Aquifers in Wyoming to Contamination, Phase III: Vulnerability Mapping for Natrona, Campbell, Sweetwater and Uinta Counties Using a Geographic*

PROFESSIONAL PRESENTATIONS (partial list from last 10 years)

- 2019 *Wyoming Natural Resource and Energy Explorer Planning Support System*. U.S. State Department Gilman Scholars Program U.S. Future Leaders Seminar on Energy and Natural Resources, University of Wyoming, Laramie, WY, September 5, 2019. (Joint presentation with T.B. Wyckoff)
- 2019 *Signs of the Landscape: Art as Protest, Protest as Art*. Annual Meeting of the American Association of Geographers, Washington, DC, April 5, 2019. (Joint presentation with C. Baldwin.)
- 2018 *Sage-Grouse Conservation Planning and Policy Implementation with Integrated Planning Support Technologies*. Sustainability Research Centre, University of the Sunshine Coast, Sippy Downs, QLD Australia, April 18, 2018. (Invited)
- 2017 *Wyoming Natural Resource and Energy Explorer Planning Support System*. Governor Matt Mead Cabinet presentation. Cheyenne, WY, December 13, 2017. (Joint presentation with T.B. Wyckoff)
- 2017 *Considering Spatial Data Infrastructures in Planning Support System Implementation*. Annual Meeting of the Association of American Geographers, Boston, MA, April 9, 2017.
- 2016 *Sage-Grouse Conservation Planning and Policy Implementation with Integrated Planning Support Technologies*. American Collegiate Schools of Planning Annual Conference. Portland, OR, November 3, 2016.
- 2016 *Geodesign and Planning Support Systems for Transportation Corridor Development*. Geodesign Summit 2016. Redlands, CA, January 28, 2016.
- 2015 *Naive (Commonsense) Geography and Geobrowser Usability after Ten Years of Google Earth*. 9th International Symposium on Digital Earth, Halifax, Nova Scotia, Canada, October 6, 2015.
- 2015 *Spatial Data Infrastructures and Planning Support System Implementation*. (poster) 14th International Conference on Computers in Urban Planning and Urban Management, Boston, MA, July 8, 2015.
- 2015 *The Wyoming GeoHub and Natural Resource & Energy Explorer Application*. State of Wyoming Energy & Natural Resources Policy Team Meeting. Cheyenne, WY, April 29, 2015.
- 2014 *Big Data and the Average Planner: Large Structured Thematic datasets and Planning Support Systems in MultiScale, Multi-Jurisdictional Planning*. American Collegiate Schools of Planning Annual Conference. Philadelphia, October 30, 2014.
- 2014 *Siting Carbon Conversion Energy Facilities with Spatial Multi-Criteria Decision Analysis*. 37th Applied Geography Conference. Atlanta, GA, October 16, 2014.
- 2014 *The Western Governors' Crucial Habitat Assessment Tool: Informing Land-Use Decision Making and Conservation Planning with Better Wildlife Value Information*. Western Planner / Utah APA 2014 Conference, Salt Lake City, UT, October 2, 2014. (Joint presentation with C. Bailey)
- 2014 *The Western Governors' Crucial Habitat Assessment Tool: Assessing Crucial Habitat with Hybrid, Multi-Scale Geospatial Data and Technology*. GeCo in the Rockies, Grand Junction, CO, September 25, 2014.
- 2014 *New Geospatial Resources for Wyoming Planners*. Wyoming Planners Association Fall Conference. Pinedale, WY. September 18, 2014.
- 2014 *From No Data to Big Data: Building Wyoming's Statewide Spatial Data Infrastructure*. Keynote address at the Wyoming Geospatial Organization 3rd Annual Conference, Lander, WY, August 20, 2014. (invited)
- 2014 *Web GIS and Cross-Jurisdictional Conservation Planning in the Western United States*. Sustainability Research Center, University of the Sunshine Coast, Sippy Downs, QLD Australia, March 25, 2014. (invited)
- 2013 *The Western Governors' Crucial Habitat Assessment Tool: Mapping Fish & Wildlife Across the West*. National State Geographic Information Council Annual Conference. Kansas City, MO, October 28, 2013. (Joint presentation with M. Turner)

- 2013 *Case Study Analysis of Planning Support System Implementation in Local Comprehensive Planning.* CUPUM 2013 – 13th International Conference on Computers in Urban Planning and Urban Management. Utrecht, Netherlands, July 4, 2013.
- 2012 *The Wyoming Interagency Spatial Database & Online Management System: Building ‘Wisdom’ to Support Wildlife Decision Making Via Web-Based GIS Technology.* Wyoming Landscape Conservation Initiative Science Meeting, Rock Springs, WY. May 16, 2012.
- 2012 *Wyoming Interagency Spatial Database & Online Management System Environmental Assessment Support Tool (WISDOM-EAST).* Pre-workshop webinar, Workshop on GIS-Based Tools for Renewable Energy Development. Western Governors’ Association and American Wind-Wildlife Institute, January 12, 2012. (invited)
- 2011 *Wyoming Interagency Spatial Database and Online Management (WISDOM) System Demonstration.* Wyoming Governors Planning Office, Cheyenne, WY, November 23, 2011. (invited)
- 2011 *Decision Support System Adoption and Use Issues.* Presented at the Spatial Decision Support System Workshop, sponsored by the University of Redlands’ Redlands Institute and the US Army Engineer Research and Development Center’s Construction Engineering Research Laboratory, Champaign, IL, October 18, 2011. (invited)
- 2011 *CommunityViz Planning Support System Implementation in Rural Local Comprehensive Planning.* Presented at the ESRI International User Conference, San Diego, CA, July 21, 2011. (invited)

UNIVERSITY SERVICE (selected)

- 2020 Member, UW 2040 Subcommittee, Budget Reduction Working Group, University of Wyoming
- 2020 Member, COVID-19 Response Testing and Tracing Working Group, University of Wyoming
- 2019-Present Member, Research Planning Committee, Grand Challenges Initiative, University of Wyoming
- 2019-Present Member, Biodiversity Task Force, University of Wyoming
- 2019 Chair, Master of Planning Graduate Degree Program Task Force, University of Wyoming
- 2017 Chair, Spatial Science Initiative Task Force, University of Wyoming
- 2017 Chair, Off-Cycle Raise Working Group, University of Wyoming
- 2011-2012 Member, Visualization Committee, School of Energy Resources, University of Wyoming
- 2010 Member, Scientific Computing Task Force, Office of Research and Economic Development, University of Wyoming
- 2008-2011 Member, Tenure and Promotion Committee, College of Arts & Sciences, University of Wyoming
- 2008-2009 Member, Siting Committee, General Electric High Plains Gasification – Advanced Technology Center, University of Wyoming
- 2005-2008 Member, NEON Working Group, University of Wyoming
- 2005 Member, UW READ Task Force
- 2000-2001 Member, Earth Systems Science Committee, University of Wyoming
- 1999 Member, Research Scientist Term and Promotion Committee, University of Wyoming

PROFESSIONAL MEMBERSHIPS (current)

- American Planning Association
- Association of American Geographers
- Association of Collegiate Schools of Planning
- University Consortium for Geographic Information Science
- Urban and Regional Information Systems Association
- Western Planners Association
- Wyoming Geospatial Organization
- Wyoming Planners Association

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