

CURRICULUM VITAE

James E. Meacham
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EDUCATION

M.A., Geography, University of Oregon, Eugene, 1992.
B.S., Geography with honors, University of Oregon, 1984.

CERTIFICATION

ASPRS Certified Mapping Scientist, GIS/LIS (R 151 GS).
Human Subjects Training Certification, CITI Program
Social-Behavioral-Educational Researchers

RESEARCH and TEACHING INTERESTS

- Map and Atlas Design Research.
- Cartographic Design and Production Instruction.
- Geographic Information Science.

APPOINTMENTS

2011 – present: Senior Research Associate, Executive Director, InfoGraphics Lab, Department of Geography, University of Oregon
2004 – 2011: Senior Research Associate, Administrative and Research Director, InfoGraphics Lab, Department of Geography, University of Oregon
1997 – 2004: Research Associate, Administrative and Research Director, InfoGraphics Lab, Department of Geography, University of Oregon
1992 – 1997: Research Assistant, Lab Manager, InfoGraphics Lab, UO Department of Geography
1988 – 1992: Graduate Teaching Fellow, Managed Lab, InfoGraphics Lab, UO Department of Geography
1986 – 1988: Cartographer, Oregon Department of Transportation
1985 – 1986: Parks Planner, Oregon State Parks
1984 (Field Season): Survey Aide, Bureau of Land Management, Burns, OR, field season.
1984: Hydrology Research Intern, Willamette National Forest

INSTRUCTION

Advanced Cartography, GEOG 493/593

FIELD EXPERIENCE

Assisted in Mule Deer trapping and GPS collaring, Wyoming Migration Initiative, 2013 and 2014.
Cartographer/Field Geographer, Joint Mongolian-American-Russian Altai Expedition, northwest Mongolia, 2006, 2004, and 1997 field seasons.

PROFESSIONAL SERVICE

AAG President's Changing North American Continent Theme Committee 2019-20
American Society of Photogrammetry and Remote Sensing (ASPRS)
Past President, 2007 President, 2006 Vice President, 2005, Columbia River Region.

North American Cartographic Information Society (NACIS), member since 1989.
Past President, 2002-03, President, 2001-02, Vice President, 2000-01.
Program Chair, NACIS XXI Annual Meeting, Portland, 2001.
Board of Directors, 1997-99.
Cartographic Perspectives Journal, Cartographic Techniques Editor, 1997-2000.
FOSS4G, Map Gallery Judging Committee Member, Portland, Oregon, 2014.
Oregon Geographic Names Board, 2004 – present.
Oregon Geographic Information Council, 2007 – 2014.
UO GIS Advisory Committee, Chair: 1998-2008 (Founding member since 1992).
UO Geography IT Committee Chair, 2009 – 2014.
UO Geography Personnel Committee, 2015 – 2018.
UO Environment & Society Building User Group, Geography Representative, 2018-19

MEMBERSHIPS

Association of American Geographers (AAG)
AAG Cartography, GIS, and Mountain Specialty Groups.
North American Cartographic Information Society
Forever Yellowstone

AWARDS AND HONORS

2018 High Plains Book Award Finalist. Title: *Wild Migrations: Atlas of Wyoming Ungulates*.

2018 The Wildlife Society Edited Book Award. Title: *Wild Migrations: Atlas of Wyoming Ungulates*.

2018 Cartography and Geographic Information Society (CaGIS) 46th Annual Map Competition “Best in Show” and “Best Atlas” Awards. Title: *Wild Migrations: Atlas of Wyoming Ungulates*.

2014 AAG Mountain Geography Specialty Group, Denali Recent Accomplishment Award, Association of American Geographers. Title: *Atlas of Yellowstone*.

2013 Wyoming State Historical Society, First Place Award in the Publications Reference Category. Title: *Atlas of Yellowstone*.

2012 Cartography and Geographic Information Society (CaGIS) 40th Annual Map Competition “Best in Show” Award. Title: *Atlas of Yellowstone*.

2012 Association of American Publishers PROSE Award for Excellence in Physical Sciences & Mathematics and also the PROSE Award in the Earth Sciences category. Title: *Atlas of Yellowstone*.

2012 Esri Special Achievement in GIS award with State of Oregon Department of Administrative Services: Title: Development of “iRaptor” – A Mobile Common Operating Picture iPad application. (Ken Kato, PI)

2011 Esri Special Achievement in GIS award: Title: Developing mobile mapping/GIS applications that pushed the boundaries of integrating enterprise GIS with high quality cartographic design. (Ken Kato, PI)

2010, AAG Globe Book Award for Public Understanding of Geography. Association of American Geographers. (*Archaeology and Landscape in the Mongolian Altai: An Atlas*, with Esther Jacobson-Tepfer)

2010, Cartography and Geographic Information Society 38th Map Design Competition Book/Atlas category Honorable Mention. (*Archaeology and Landscape in the Mongolian Altai: An Atlas*, with Esther Jacobson-Tepfer and Alethea Steingisser)

2006, American Society of Photogrammetry and Remote Sensing “Region of the Year” for the Columbia River Region as Regional President.

2006, American Society of Landscape Architectures and the Council of Educators in Landscape Architecture Faculty Advisor “Award of Excellence in Research.”

2003, International Cartographic Association, “Award for Excellence in Cartography,” 21st International Cartographic Conference, Durban, South Africa. (*Atlas of Oregon, CD-ROM*, with Erik Steiner)

2003, American Congress on Surveying and Mapping (ACSM), "Best in Show" and “Best of Category: Book and Atlas Division” (*Atlas of Oregon, CD-ROM*, with Erik Steiner).

2002, Officer of Administration Recognition Award, University of Oregon.

2002, American Congress on Surveying and Mapping (ACSM), "Best in Show" and “Best of Category: Book and Atlas Division” (*Atlas of Oregon, 2nd Edition*, with W. Loy, S. Allan, and A. Buckley).

2002, Benjamin Franklin Award, Category: Education/Teaching/Academic. Publishers Marketing Association. (*Atlas of Oregon, 2nd Edition*, with William Loy, Stuart Allan, and Aileen Buckley).

2001 Northwest ESRI Users Conference, Sun Valley, ID. First Prize - Poster Presentation: *Oregon Department of Transportation County GIS Mapping Pilot Project: Wasco County*, (with Mike Engelmann and Eugene Carpentier).

1999, Environmental Systems Research Institute (ESRI) International Users Conference Awards: "Best of Show" and "Best Software Integration." *Mapping the University of Oregon Campus: Integration of GIS, Map Publishing, Facilities Mapping, and Architectural Design*.

PUBLICATIONS AND CREATIVE WORKS

Books, Atlases, Chapters, Maps, Exhibits, Reports, and Film Documentaries

Nickerson, G., J. Merson, M. Kauffman, J. Meacham, and A. Steingisser, *World Record Deer Migration Visualized in 3D for the First Time*, Film, on-line. Wyoming Migration Initiative, 2019.

Marcus, W. Andrew, James E. Meacham, Ann W. Rodman, Alethea Y. Steingisser, and Justin Menke. *Atlas of Yellowstone, Second Edition*. (in-production).

McCool Daniel, Thomas Minckley, and Jason Robison, *Vision and Place: John Wesley Powell and Reimagination of the Colorado River Basin*. (maps with P. W. Limpsathian) UC Press (forth coming).

Meacham, James E., Alethea Y. Steingisser, Joanna R. Merson, “Cartography at the University of Oregon InfoGraphics Lab” chapter in Buckley, Aileen R. (2019) Editorial: 2019 US National Report to the ICA. *Cartography and Geographic Information Science*, 46:3, 195.

Kauffman, Matthew, James E. Meacham, Hall Sawyer, Alethea Steingisser, Bill Rudd, Emilene Ostlind. *Wild Migrations: Atlas of Wyoming's Ungulates*. Oregon State University Press, Corvallis, 2018.

Jacobson-Tepfer, Esther and James E. Meacham, *The Sacred Mountain Shiveet Khairkhan (Bayan Ölgii aimag, Mongolia) and the Centering of Cultural Indicators in the Age of Nomadic Pastoralism*, chapter in Fonstad, M.A (ed.). 2018. *Mountains: Physical, Human-Environmental, and Sociocultural Dynamics*. New York: Routledge. 322 pp.

Riis, Joe (contributed maps) *Yellowstone Migrations*, Braided River/Mountaineers Books, Seattle, 2017.

Cain, Eric, Producer, Oregon Public Broadcasting: Oregon Experience “Broken Treaties” documentary film. 2017. (Provided maps and cartographic consulting).

Miley, Emily, James Meacham, and Lauren Hendricks, 2017. *Cartographic Visualization of Parks, Trails, and Recreation Centers in Albany, Oregon*. University of Oregon Sustainable City Year Reports 2016-17.

Gavin, Daniel, James E. Meacham, Alethea Steingisser, and Lauren Hendricks, 2016, Prototype Atlas of the Olympic Peninsula (UO CAS Kick-start grant for page development).

Middleton, Arthur, Joe Riis, and James Prosek (contributed maps and geospatial support) *Invisible Boundaries: Exploring Yellowstone's Great Animal Migrations* Exhibit at National Geographic Society, Washington DC and Buffalo Center of the West, Cody WY, 2016

Yunker, Jason, (contributed as cartographic editor), *9:43 A Reference Guide: Nine Tribes of Oregon and 43 Residency-by-Aboriginal-Rights Tribes*, University of Oregon, 2016

Meacham, James E., "Atlases, Mountains, and Yellowstone" invited chapter in *Mountain Cartography: 16 Years ICA Commission on Mountain Cartography*, International Cartographic Association, 2015.

Lobben, Kathleen Amy, and James E. Meacham, "Cartographic Textbooks in the Twentieth Century." Chapter in Mark Monmonier, editor, *The History of Cartography Volume Six: Cartography in the Twentieth Century*. The University of Chicago Press. 2015.

Nurse, Earl, CNN, The Art of Movement (Documentary film): "Technology reveals secrets of majestic big-game migration." Provided maps for film (served as Cartographic Editor). Feb. 18, 2015.

Cain, Eric, Producer, Oregon Public Broadcasting: Oregon Experience "Astoria" documentary film. Feb. 6, 2015. (Provided maps and cartographic consulting).

Gorman, James, New York Times, Science Times: "For Mule Deer, an Incredible 150-Mile Migration." Provided source map (served as Cartographic Editor) "Tracking a Migration." Feb. 2, 2015.

Meacham, James E. (P.I., Cartographic Editor), *Bicycle Scenic Loop Map Series*, Oregon Parks and Recreation Department. 2014 - 2017

Meacham, James, E. (Curator), Alethea Y. Steingisser, and W. Andrew Marcus. *Atlas of Yellowstone* Museum Exhibit. University of Oregon Museum of Natural and Cultural History, 2014.

Riis, Joe, Producer and Director of Photography, 2014. Documentary film: "The Red Desert to Hoback Mule Deer Migration", Wyoming Migration Initiative, University of Wyoming, Laramie, WY. Part of National Geographic Short Film Showcase: "A Deer Migration You Have to See to Believe."

Riis, Joe, Photo (and Map) Exhibit: "The Red Desert to Hoback Mule Deer Migration" at the National Wildlife Art Museum, Jackson, Wyoming, 2014. Wyoming Migration Initiative (Served as Cartographic Editor).

Sawyer, H., M. Hayes, B. Rudd, and M. J. Kauffman. 2014. The Red Desert to Hoback Mule Deer Migration Assessment. (served as Cartographic Editor) Wyoming Migration Initiative, University of Wyoming, Laramie, WY.

Greater Yellowstone and Grand Teton Recreation Atlas and Guide, Benchmark Maps, 2014 (Contributing Editor).

Kato, Ken, Marc Schlossberg and James E. Meacham. *Development of Mobile Mapping Technology to Facilitate Dialog between Transportation Agencies and the Public*. 2013. *Final Report to Oregon Transportation Education Consortium (OTREC-TT-12-01)*.

Marcus, W. Andrew, James E. Meacham, Ann W. Rodman and Alethea Y. Steingisser, *Atlas of Yellowstone*. University of California Press, Berkeley, 2012.

- Meacham, James E. (P.I., Cartographic Editor), *Historic Columbia River Highway Bicycle Map Series*, 2013, Oregon Department of Transportation.
- Jacobson-Tepfer, Esther and James E. Meacham. Gary Tepfer (Photographer), *Archaeology and Landscape in the Mongolian Altai: An Atlas*, ESRI Press 2010.
- Meacham, James E. (P.I., Cartographic Editor), *Official Oregon Coastal Bicycle Map*, 2010, Oregon Department of Transportation.
- Meacham, James E. (P.I., Cartographic Editor), *Official Oregon State Bicycle Map*, 2009, Oregon Department of Transportation.
- Meacham, James E. (P.I., Cartographic Editor), *Official Oregon State Highway Map*, 1990-2002, 2009, Oregon Department of Transportation.
- Hardwick, Susan W., and James E. Meacham, 'Placing' the Refugee Diaspora in Suburban Portland, Oregon: Chapter in Singer, Audrey, Susan W. Hardwick, and Caroline Brettell, eds. 2008. *Twenty First Century Suburban Gateways: Immigrant Incorporation in Suburban America*. Washington, DC: The Brookings Institution.
- Jacobson-Tepfer, E., with the collaboration of V. Kubarev, D. Tseveendorj, G. Tepfer, and J. Meacham. *The Rock Art Complex of the Upper Tsagaan Gol*, Répertoire des Pétroglyphes d'Asie centrale, 2 vols. Paris: De Boccard. 2006.
- Oregon Watershed Enhancement Board, *The Oregon Plan for Salmon and Watersheds, 2001-2003, 2003-2005, 2005 -2007 Biennial Reports*, 2003, 2005, and 2007. (Cartography and GIS Director, with Ken Kato, Project Manager) State of Oregon, Salem.
- Meacham, James E., (Cartographic Editor), University of Oregon Map Series: *Parking and Transportation, Accessing the Campus, Emergency Call Boxes, and Bicycle Guide Map*. University of Oregon Department of Public Safety, 1993-2002.
- Meacham, James E. and Erik B. Steiner (editors), *Atlas of Oregon, CD-ROM version*, Eugene: University of Oregon Press, 2002.
- Loy, William G., Stuart Allan, Aileen R. Buckley and James E. Meacham, *Atlas of Oregon. Second Edition*, Eugene: University of Oregon Press, 2001.
- E. Jacobson and J. Meacham. 2001. "Methodological Considerations." Chapter in , *Répertoire des pétroglyphes d'Asie Central. Mongolie du Nord-Ouest: Tsagaan Salaa/Baga Oigor*. Mémoires de la Mission Archéologique Française en Asie Centrale. E. Jacobson, V. D. Kubarev, D. Tseveendorj. Paris, 2001.
- Kato, Kenneth, Blake Andrew and James E. Meacham (Principle Investigator). *The Oregon Rural Lands Database*. [36-CDROM set with manual]. Oregon Department of Conservation and Development, Salem and University of Oregon, Eugene, 2001.
- Meacham, James E. "Web-based Atlas of Lane County, Oregon," 1999, Department of Geography, University of Oregon, [on-line] <http://geography.uoregon.edu/infographics/lcweb/lcindex.htm>.
- Loy, William, G., Michael Holcomb, James E. Meacham, Gary Searl, *ExplOregon: A Geographic Tour of Oregon*, [CD-ROM], 1995, University of Oregon, Eugene.
- May, Mande, George Beltran, and James E. Meacham (Cartographer), *University of Oregon Atlas of Trees*, 1996, University of Oregon Books, Eugene, 126 pp.

Meacham, James E., David Cutting, and Nancy Leeper (Cartographers), "Geology and Mineral Resources Map of the Elbow Quadrangle, Malheur County, Oregon," 1992, Oregon Department of Geology and Mineral Industries, GMS-62, Geological Map Series.

Meacham, James E., *The Technological Transition to Electronic Map Publication*, 1992, Unpublished Master's Thesis, Department of Geography, University of Oregon.

Meacham, James E. (Director), *Atlas of Lane County, Oregon*, 1990, Lane County, Eugene. 78 pp.

Meacham, James E., *Columbia County Map Series*, Oregon Department of Transportation, 1987.

Articles, and Reviews

Meacham, James E., (Book Review) *Mapping the Four Corners: Narrating the Hayden Survey of 1875. Robert S. McPherson and Susan Neel. (Norman: University of Oklahoma Press 2016. New Mexico Historical Review Volume 93, Number 1, Winter 2018.*

Davis, Emily Jane, Jesse Abrams, Katherine Wollstein, James E. Meacham, Alethea Steingisser, and Lee K. Cerveny, *Rangeland Fire Protection Associations: An Alternative Model of Wildfire Response*. Ecosystem Workforce Program, Briefing Paper Number 78, Fall 2017, University of Oregon (in review)

Johnson, L., B. Wandera, N. Jensen, R. Banerjee. "Competing expectations in an index-based livestock insurance project" *Revised and resubmitted to Journal of Development Studies*. (contributed cartography)

Jacobson-Tepfer, Esther and James E. Meacham, *The Sacred Mountain Shiveet Khairkhan (Bayan Ölgii aimag, Mongolia) and the Centering of Cultural Indicators in the Age of Nomadic Pastoralism*, Annals of the American Association of Geographers, Special Issue: Mountain, Volume 107, Number 2, March 2017.

Jacobson-Tepfer, Esther and James E. Meacham, "Place Names in the Mongolian Altai: Cultural Shifts and Sensibilities," Historical Geography, "Digital Historical Geography", Guest Editor: Margaret Wickens Pearce. Volume 40, 2012.

Marcus, W. Andrew, James E. Meacham, Ann Rodman, and Alethea Steingisser, "Atlas of Yellowstone – Preliminary Work", *Visual Fields, Cartographic Perspectives*, Number 57, Spring 2007, pp. 86-87.

Strandhagen, Erik, Marcus, W. Andrew, and Meacham, James E. "Views of the rivers: representing streamflow of the greater Yellowstone ecosystem." Cartographic Perspectives, Number 55, Fall 2006, pp. 54-59.

Hardwick, Susan W., J. E. Meacham, "Heterolocalism, Networks of Ethnicity, and Refugee Communities in the Pacific Northwest: The Portland Story", Professional Geographer, 57(4) 2005, pp. 539-557.

Meacham, James E. and Stuart Allan, "State Atlas Design", Cartographic Perspectives, Number 44, Winter 2003, pp. 44-52.

Buckley, Aileen R., James E. Meacham, and Erik B. Steiner, 2003. "Creating a State Atlas as an Integrated set of Resources: Book, CD-ROM and Website", *ICC Proceedings*, Durban, South Africa

Meacham, James E., "Rediscovering Cartography" Cartographic Perspectives, Number 40, Fall 2001.

Meacham, James E., and Andrea Ball, "UO Campus Mapping Program: Integrating CAD, GIS, and Map Publishing" Cartographic Perspectives, with, Number 34, Fall 1999.

Meacham, James E., "University Cartography Labs", note, "The State of Academic Cartography" Brewer and McMaster, (editors), 1999 U.S. National Report to the International Cartographic Association. Cartography and Geographic Information Science, Vol. 26, No. 3, July 1999.

Jacobson, Esther and James E. Meacham, "When Stones Speak: Mapping and Mongolian Surface Archaeology," with, GeoInfo Systems, February 1998, pp. 15-22.

Meacham, James E., (Book Review) *Atlas of Oregon Wildlife: Distribution, Habitat, and Natural History*, Csuti, Blair, et. al., 1998 Cartographic Perspectives, Number 29, Winter 1998.

Meacham, James E., "Automated Large-format Geological Map Production," Cartographic Perspectives, Number 20, Winter 1995.

Jacobson, Esther, James E. Meacham and David Cutting, "Applying GIS to the Archaeology of the Altay Mountains," 1994, GeoInfo Systems, March 1994, pp. 32-45.

Meacham, James E., "Using GNIS at the Oregon Department of Transportation," (with others) 1988, American Congress on Surveying and Mapping Technical Papers, (ACSM-ASPRS Fall Convention). Washington: ACSM, pp. 4-12.

Selected Professional Papers, Panels, and Presentations

Marcus, W. Andrew, James E. Meacham, Alethea Y. Steingisser, Justin T. Menke, P. William Limpsathian, and Ann W. Rodman, "Atlas of Yellowstone, 2nd Edition, Celebrating 150 Years: 1872–2022," Poster, International Cartographic Association Conference, Toyko, 2019.

Meacham, James, E., "Mapping the Wildness of Yellowstone," Lunch Presentation, International Centre for Integrated Mountain Development, Kathmandu, Nepal, March 28, 2019.

Meacham, James, E. and Joanna Merson, Cartographic Design Workshop, International Centre for Integrated Mountain Development, Kathmandu, Nepal, March 27-28, 2019.

Meacham, James E., "Mapping the Wildness of Yellowstone." Obsidian Lodge, Eugene OR. Sept.17, 2019.

Meacham, James E., "Mapping the Wildness of Yellowstone." University of Oregon Quack Chat, Eugene Oregon. February 6, 2019.

Matthew Kauffman, James E. Meacham, Hall Sawyer, Alethea Steingisser, William J. Rudd, and Emilene Ostlind. "Wild Migrations: Atlas of Wyoming's Ungulates, Book Tour, Laramie, Cheyenne, Pinedale, and Jackson Wyoming, October 31 – November 4, 2018.

Matthew Kauffman, James E. Meacham, Hall Sawyer, Alethea Steingisser, William J. Rudd, and Emilene Ostlind. "Wild Migrations: What we learned from compiling the Atlas of Wyoming's Ungulates. Greater Yellowstone Ecosystem Biennial Science Conference, Big Sky MT, 2018.

Meacham, James, E., Alethea Y. Steingisser, and Josie L. Imrie, *Wild Migrations: A Comprehensive Atlas Visualizing the Science and Conservation of Ungulate Migration Corridors*. 2018, American Association of Geographers Annual Meeting, New Orleans

Merson, J., Rosenberg, D., Elan, B., Meacham, J., "Interactive development on the Historical 1700's Priestley Timeline: A New Chart of History". Presented at Portland Cartography Symposium, 2018, Portland OR.

Meacham, James, E., Alex Tait and Jeff Howarth, (invited session organized by Marty Schnure) "Maps for Advocacy Panel Session" Society for Conservation GIS annual conference, Monterey, California, 2017.

Meacham, James, E., "Visualizing the Complexities of Wildlife Migration: Greater Yellowstone Ecosystem Ungulates" Oregon Museum of Science and Industry Science Pub Talk Series, Eugene Oregon, 2017.

Meacham, James, E., (Invited Presentation for Geography Awareness Week) "Atlas Mapping and the Atlas of Wildlife Migration: Wyoming Ungulates" National Geographic Society, Washington D.C., 2016.

Meacham, James, E., "Visualizing the Complexities of Wildlife Migration: Greater Yellowstone Ecosystem Ungulates" Huxley College Speaker Series, Western Washington University, 2016.

Meacham, James E., Alethea Y. Steingisser, Hall Sawyer, Emilene Ostlind, William Rudd, and Matthew J Kauffman. "Designing Wildlife Migration Maps" part of the special session *Mapping Yellowstone* North American Cartographic Information Society, Colorado Springs, Colorado, 2016.

Meacham, James E., Alethea Y. Steingisser, Hall Sawyer, Emilene Ostlind, William Rudd, and Matthew J Kauffman. "The Atlas of Wildlife Migration: Visualizing the Complexities of Ungulate Migration in Wyoming" *13th Biennial Scientific Conference of the Greater Yellowstone Ecosystem*. Jackson, Wyoming, 2016.

Meacham, James, E. (Commencement Presentation) "Geography, Life, Editing", Department of Geography, University of Oregon, June 13, 2016

Meacham, James, E., "Representing the Complexities of Wildlife Migration in Western Wyoming", International Cartographic Association 10th Mtn Cartography Workshop, Berchtesgaden, Germany, 2016

Meacham, James, E, W. Andrew Marcus and Alethea Y. Steingisser (invited paper in special session: *America's Best Idea? The National Park Service 1916-2016*. "Yellowstone, Not Jellystone: The *Atlas of Yellowstone* Takes Readers Beyond the Caricature in a Deeper Exploration of the Nature and Value of America's First National Park" 2016, AAG Annual Meeting, San Francisco, CA

Meacham, James, E. (Invited Panelist and Presenter) "Collaborative Design, Storylines, and Representing Wildlife Migration" Data, Stories and Geography Session, Data Storytelling Workshop, School of Journalism and Communication, University of Oregon, George S. Turnbull Portland Center, 2016

Meacham, James, E. (Invited Keynote) "Going Deep: Representing the Complexities of Wildlife Migration", Portland Cartography Symposium, Portland State University, 2015

Meacham, James, E. (Invited panelist). The Art & Science of Teaching Cartography - Panel Discussion, Portland Cartography Symposium, Portland State University, 2015

Meacham, James, E. (Invited Paper) "Keeping Blunders at Bay and Off Your Map", Invited Presentation, URISA, Central Coast GIS Users Group Cartography Symposium, Newport, OR, 2015.

Steingisser, Alethea Y. and James. E. Meacham. "Redesigning Atlas Maps for Social Media", Presentation, 2015, Practical Cartography Day, Annual Meeting of the North American Cartographic Information Society, Minneapolis, MN.

Lauren C. Tierney, James E. Meacham, Alethea Y. Steingisser, and Riley D. Champine, "Cartographic Design and the Representation of Wildlife Migration" (Poster Presentation) 2015, American Association of Geographers Annual Meeting, Chicago, IL

Meacham, James, E. (Invited panelist). Atlases and Time: A Panel Discussion on the Treatment of Time in Atlases, 2014, North American Cartographic Information Society, Pittsburgh, PA

Tierney, Lauren C., James E. Meacham, Alethea Y. Steingisser and Emily L. Nyholm. Challenges in Representing Spatio-Temporal Wildlife Migration Data, 2014. North American Cartographic Information Society, Pittsburgh, PA

Meacham, James, E., "Thematic Map Design and the Atlas of Yellowstone" International Cartographic Association Mountain Cartography Workshop, Banff, Canada, 2014.

Meacham, James, E., and Alethea Y. Steingisser: "Preliminary Work, Atlas of Wildlife Migration: Wyoming's Ungulates" 2013, North American Cartographic Information Society, Greenville, South Carolina.

Marcus, W. Andrew, James E. Meacham, Ann Rodman, and Alethea Y. Steingisser. "Visualizing Complex Science for a Broad Audience. Creating the Atlas of Yellowstone" 2012, *Greater Yellowstone in Transition Linking Science and Decision Making*, 11th Biennial Scientific Conference on the Greater Yellowstone Ecosystem, Yellowstone National Park, Wyoming.

Meacham, James, E., and Alex Tait (organizers and presenters): Doorstop or the Ne Plus Ultra of Cartography: A Panel Discussion on the Atlas: Past, Present and Future, 2012, North American Cartographic Information Society, Portland, OR

Meacham, James, E., and Esther Jacobson-Tepfer, 2011, "Archaeology and Landscape in the Mongolian Altai: Atlas and Interactive Website" American Association of Geographers Annual Meeting, Seattle, WA

Meacham, James, E., "The Mongolian Altai Inventory: Archaeology and the Landscape," 2009, URISA-ASPRS GIS in Action Conference, Portland, OR. (invited keynote lunch presentation)

Kato, Ken, and James E. Meacham, "Cartographic Design: Principles and Applications," 2009, URISA-ASPRS GIS in Action Conference, Portland, OR. (invited presentation)

Meacham, James E., "Dr. Joseph Schafer: Oregon Geographic Names Board Charter Member", (invited presentation) 2008, Centennial Meeting of Oregon Board of Geographic Names, Corvallis, Oregon.

Meacham, James E., "20 Years of Cartographic Transition and Innovation at the UO InfoGraphics Lab, 1988 – 2008." 2008, Presentation, Annual Meeting of the North American Cartographic Information Society, Missoula, Montana.

Strandhagen, Erik R., W. Andrew Marcus and James E. Meacham, 2006, "Views of the Rivers: Visualizing Temporal Detail in Multi-Decadal Records of Regulated and Non-Regulated Streamflows." 37th International Binghamton Geomorphology Symposium on the Human Role in Changing Fluvial Systems, Columbia, SC.

Meacham, James E., Alethea Y. Steingisser, W. Andrew Marcus, and Ann Rodman, 2006, "From Glaciers to Geysers: The Creation of the Atlas of Yellowstone" Presentation, 26th Annual Meeting of the North American Cartographic Information Society, Madison, Wisconsin.

Meacham, James E. and Esther Jacobson-Tepfer, Cartographic and Geographic Visualization Techniques in the Study of Prehistory in the Mongolian Altai Mountains. 2005, Association of American Geographers 101th Annual Meeting Abstract Volume. Washington.

Jacobson-Tepfer, Esther and James E. Meacham. Mapping as an Analytical Tool in the Study of Mongolian Altai Prehistory. 2005. Society for American Archaeology 70th Annual Meeting, Salt Lake City, UT.

Meacham, James E. and Nick Kohler. Using Remote Sensing, GIS, and GPS technologies in the Study of Prehistory in the Mongolian Altai Mountains. ASPRS-Columbia River Region and ASPRS-Puget Sound Region Technical Information Exchange. 2004 Vancouver, Washington.

Meacham, James E. and Kato, Kenneth, "Cartographic Expression." (invited presentation) 2004, GIS-in-Action Conference. ASPRS and Urban and Regional Information Systems Association (URISA), Portland, Oregon.

Kato, Kenneth, and James E. Meacham "Using Atlas Techniques to Present the Oregon Salmon Recovery Effort." 2003, Association of American Geographers 99th Annual Meeting Abstract Volume. Washington.

Theodoropoulos, Christine, and Meacham, James E., et. al, "Using Rapid Screening Methods and GIS Models to Identify Seismic Hazards and Risk on a University Campus" 2001. Poster presentation at the 2001 Earthquake Engineering Research Institute Annual Meeting, "Dealing with Issues of Acceptable Risk," Monterey, California.

Meacham, James E., "Atlas of Oregon 2001: Atlas Design and Production" (Invited Paper), 2000 Northwest ESRI Conference, Skamania, WA.

Engelmann, Michael, Eugene Carpentier and James E. Meacham (Principle Investigator), *Oregon Department of Transportation County GIS Mapping Pilot Project: Wasco County*, Report to ODOT and Oregon Transportation Framework Committee, June 2001.

Meacham, James E., "Cartography and Qualitative Research Methodology for Mongolian Altay Rock Art Study." 20th Annual Meeting of the North American Cartographic Information Society Program, Knoxville, TN, 2000.

Meacham, James E., and Esther Jacobson, "Understanding the Past in the Mongolian Altay: Prehistory and Geographic Analysis and Visualization", 2000, Association of American Geographers 96th Annual Meeting Abstract Volume. Washington: 481.

Kato, Kenneth, and James E. Meacham, "Cartography/GIS Serves Regional Land Use Planning and the Public Participation Process; Clatsop Plains, Oregon," 2000, Association of American Geographers 96th Annual Meeting Abstract Volume. Washington: 372.

Meacham, James E., "*Lane County Atlas*: Publication and Web Delivery of GIS Database", 1999, Presentation, Association of American Geographers 95th Annual Meeting Abstracts. Washington.

Meacham, James E., "*1999 Atlas of Lane County, Oregon*: A Student Created Project for Print and Web Publication.", 1998, Poster Presentation, Eighteenth Annual Meeting of the North American Cartographic Information Society, Milwaukee, Wisconsin.

Meacham, James E., "Mapping the Ancient Altay, northwest Mongolia", 1998, Association of American Geographers 94th Annual Meeting Abstracts. Washington.

Meacham, James E., "The UO InfoGraphics Lab Experiment: An organic approach to cartographic research facility development ", 1997, Presentation, Seventeenth Annual Meeting of the North American Cartographic Information Society, Lexington, Kentucky.

Meacham, James E., "ExplOregon: A Multimedia Product for Geographic Instruction," 1996, Association of American Geographers 92nd Annual Meeting Abstracts. Washington:1996.

Meacham, James E., "Mapping the Campus", 1996, Presentation, Sixteenth Annual Meeting of the North American Cartographic Information Society, San Antonio, Texas.

Meacham, James E., "Using MicroStation to Solve Large-Format Map Publication Problems", 1995, Association of American Geographers 91st Annual Meeting Abstracts. Washington:205.

Meacham, James E., "Modernizing the *Official Highway Map of Oregon*," 1993, American Congress on Surveying and Mapping Technical Papers. Washington:ACSM, pp. 302-13.

Meacham, James E., "The Electronic Publication of the *Official Highway Map of Oregon*," 1993, Association of American Geographers 89th Annual Meeting Abstracts. Washington:160.

Meacham, James E., "Geographic Names Information System Application in State Highway Map Production," 1992, Association of American Geographers 88th Annual Meeting Abstracts. Washington:158.

Meacham, James E., "The Development of an Automated County Base Mapping Procedure at the Oregon Department of Transportation," 1989, Proceedings of the Oregon Academy of Science.

SELECTED GRANTS/CONTRACTS

2019, Cartographic Development Support – Greater Yellowstone Migrations, UC Berkeley, \$39,000.

2019, Mapping Big Game Migration Colorado Corridors, USGS, \$40,000.

2019, Cartographic Visualization support of Wyoming Migration Initiative Research and Outreach, University of Wyoming, \$46,000.

2018, *Oregon Tsunami "Beat the Wave" Map Template Design*. Oregon Department of Geology and Mineral Industries, \$20,000.

2012-18, *Atlas of Wildlife Migration: Wyoming's Ungulates*. USGS Wyoming Cooperative Fish and Wildlife Research Unit at the University of Wyoming. ~\$600K.

2015-2017, USDOJ-BLM, Fire-Adapted Communities on the Range, \$46,792 (w/UO ISE total: \$195,448)

2015, National Institute for Transportation, Crowdsourcing the Collection of Transportation Behavior Data (C. Bone, PI). \$136,635

2013-2016, Oregon Parks and Recreation Department, Design and Production of Bikeways Maps. \$34,000.

2013, Oregon Department of Transportation, Historic Columbia River Highway Bicycle Map Update, \$13,300.

2012, Transatlantic Academy Report Maps, Transatlantic Academy, \$7,500.

2011-2012, State of Oregon Department of Administrative Services, Mobile iPad Application – iRaptor, Co-PI with Ken Kato, \$75,000.

2011-2012, City of Eugene, Mobile Citizen Reporting Application, Co-PI with PI K. Kato, \$25,000.

2008-2011, Stanford University, Spatial History Laboratory Geodatabase Hosting., \$70,000.

1993-2011, Oregon Department of Transportation, grant for research work on the Restructure and Redesign of City Transportation Maps, and GIS Framework Development, \$24,750, \$49,500, \$100,000, \$98,000, \$169,670, \$185,000, \$185,000, \$300,000, \$300,000 and \$350,000.

2007 National Endowment for the Humanities Reference Material Grants, 2007 – 2009, Project Title: "Archaeology and the Landscape in Mongolia's High Altai: Inventory and Documentation" \$315,000, (with Esther Jacobson-Tepfer, PI).

2004 - 2009, "Oregon North Coast ESU Salmon Recovery Plan 2004 Report Development", Oregon Watershed Enhancement Board. \$65,000, \$40,000, and \$40,000.

2002, "Oregon Salmon Recovery Plan 2002 Report Development", Oregon Watershed Enhancement Board. \$56,475.

2002 –2004, Refugee and Immigration Nodes and Networks in Western Oregon" the National Science Foundation, (with Susan Hardwick, PI)

2002, *Atlas of Oregon, Second Edition* CD-ROM Project, University of Oregon Press. (with William G. Loy and Aileen R. Buckley) \$125,000.

2002-03, "Visualizing, Analyzing and Exploring Our Environment Using Digital files from the Atlas of Oregon" (with Aileen R. Buckley, Susan Hardwick, and Cathleen Leue) \$25,000.

2001, Oregon Department of Transportation, research work on the development of Transportation GIS Framework Data for Wasco County, Oregon. \$24,000

1999 – 2001, *Atlas of Oregon, Second Edition* Project, University of Oregon Foundation. (with William G. Loy, Stuart Allan, and Aileen R. Buckley) \$250,000.

1999-2001, Oregon DLCD: Development of a Rural Lands Database, \$140,000.

1993-01, Jacobson, Esther, UO Department, Center for Asian and Pacific Studies, Applying GIS to the Archaeology of the Altay Mountains, \$33,400.

1999, Department of Land Conservation and Development: Preliminary Assessment of the Feasibility and Costs to Establish a Rural Lands Database, \$10,000.

1999, Oregon Department of Transportation, research on GIS Web site development, \$24,000.

1998-99, McKenzie River Watershed Council, GIS Analysis and Mapping Support.

1998-99, Department of Land Conservation and Development: Regional Problem Solving: Clatsop County, Clatsop Plains GIS Map Development, \$17,000 and \$10,000.

1998, Coquille Indian Tribe, GIS and Aerial Photo Mapping Project.

1998, Oregon Governor's Task Force on Growth/ECONorthwest, Final Report Mapping, \$5,000.

1998, Oregon Department of Parks and Recreation/State Historical Preservation Office, Standard Site Form and State Cultural Resource GIS Database Implementation Plan, \$21,000.

1997, American Association of Geographers, Otto Geppert Fund General Research Grant, *Altay Mapping Project*, \$1,000.

1997-98, Oregon Department of Forestry, GIS Fire Protection Mapping research, \$7,000.

1995, Connolly, Thomas J., State Museum of Anthropology, University of Oregon, "Documenting the Mosier Mounds Feature Complex, Wasco County, Oregon." \$ 6,600.

1993-94, Oregon Parks and Recreation Department, grant for "Sumpter Valley Placer Mining Interpretive Route: Site Inventory and Mapping," \$2,875.

1992, State of Oregon Department of Geology and Mineral Industries, Automated Large-format Geological Map Production Development, \$5,500.

1991, American Association of Geographers Cartography Specialty Group Master's Research Grant.

1991-1992, Oregon Department of Transportation, grant for continued research work on the *Official Oregon State Highway Map*, \$14,684.

1989-1991, Oregon Department of Transportation, grant for the research and development of digital maps for production of the *Official Oregon State Highway Map*, \$34,053.

PROVIDED RESEARCH SUPPORT

Tice, James and Erik Steiner, 2006, "Nolli Interactive Map Website:nolli.uoregon.edu."

Connolly, Thomas J., Mark A. Tveskov, Howard A. Gard, and David Cutting, 1997. "Mapping the Mosier Mounds: The Significance of Rock Feature Complexes on the Southern Columbia Plateau." Journal of Archaeological Science.

Jacobson, Esther, D. Tseveendorj, and Vladimar D. Kubarev, 1995, "Report on the Archaeological and Art Historical Research in Bayan- Ölgii Aimay, Mongolia." University of Oregon.

Connolly, T., M. Tveskov, 1995, "Documenting the Mosier Mounds Feature Complex, Wasco County, Oregon." State Museum of Anthropology, University of Oregon, Report 95-7.

Jacobson, Esther, D. Tseveendorj, and Vladimar D. Kubarev, 1994, "Report on the Archaeological and Art Historical Research in Bayan-Ölgii and Uvs Aimays, Mongolia." University of Oregon.

Ayres, William S., 1993, "Nan Madol Archaeological Fieldwork: Final Report." Pohpei, Federated States of Micronesia, 107 pp.

OTHER RELATED EXPERIENCE AND WORKSHOPS

Annual Practical Cartography Day Workshops, 2007 - 2017, North American Cartographic Information Society

Utilization / Integration of LIDAR for Mapping and GIS" ASPRS Workshop.
20th Annual Northwest GIS Users Conference, Sunriver, OR, 2005. (Facilitated and audited)

ESRI Workshop: Image Processing. 25th Annual ESRI User Conference, San Diego, CA, 2004.

ESRI Courses (Olympia, WA): Introduction to Arc/Info, Spring 1994, and Advanced Arc/Info, Winter 1995, Advanced ArcView, Fall 1998 and ArcGIS, Winter 2001.

GIS INTERN, US Geological Survey, Water Resources Division, Fall 1988.

INTERGRAPH TRAINING, Huntsville, Alabama, 1987. Coursework in WMS and Map Feature Coding.

October 11, 2019