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EDUCATION

Degree: Ph.D., 2007, Natural Resources: Physical Hydrology, Environmental Biophysics
Institution: The University of Idaho, Moscow, Idaho, USA
Dissertation: Measuring and Modeling Hydrologic Response to Timber Harvest in a
Continental/Maritime Mountainous Environment
Advisor: Dr. Timothy E. Link

Degree: M.S., 2002, Biology: Forest Ecology and Mammalogy
Institution: California State University Fresno, Fresno, California, USA
Advisor: Dr. David L. Chesemore

Degree: B.S., 2000, Ecology
Institution: California State University Fresno, Fresno, California, USA
Advisor: Dr. David E. Grubbs

PROFESSIONAL EXPERIENCE

- 01/2016 – Present Director: Institute of Water Security and Science, West Virginia University,
Morgantown, West Virginia, USA.
- 01/2016 – Present Assistant Director: West Virginia Agricultural and Forestry Experimental Station.
Davis College of Agriculture, Natural Resources and Design, West Virginia
University, Morgantown, West Virginia, USA.
- 01/2016 – Present Professor of Hydrology, Division of Plant and Soil Sciences. Davis College of
Agriculture, Natural Resources and Design, West Virginia University, Morgantown,
West Virginia, USA.
- 08/2015 – Present Editorial Board Member: Sustainable Water Resources Management. Springer,
Springer Science and Business Media Publishers.
- 01/2014 – Present Team member of the Southeastern Regional Association (SERA-46) Land Grant
University (LGI) Gulf Hypoxia Multistate Regional Committee.
- 07/2013 – 09/2015 Superintendent: Baskett Wildlife, Research and Education Center. College of
Agriculture, Food and Natural Resources, University of Missouri, Columbia,
Missouri, USA.
- 06/2013 – 12/2015 Director: Center for Watershed Management and Water Quality. College of
Agriculture, Food and Natural Resources, University of Missouri, Columbia,
Missouri, USA.
- 06/2013 – 12/2015 Associate Professor of Forest Hydrology, Department of Forestry, School of Natural
Resources, University of Missouri, Columbia, Missouri, USA.

- 05/2013 – 12/2015 Director of Graduate Studies, School of Natural Resources, Water Resources Graduate Degree Emphasis Area, University of Missouri, Columbia, Missouri, USA.
- 11/2008 – Present Adjunct Professor, Department of Agriculture and Environmental Sciences, Lincoln University, Jefferson City, Missouri, USA.
- 08/2007 – 06/2013 Assistant Professor of Forest Hydrology, Department of Forestry, School of Natural Resources, University of Missouri, Columbia, Missouri, USA.
- 06/2003 – 7/2007 Ph.D. Candidate, Department of Forest Resources, College of Natural Resources, University of Idaho, Moscow, Idaho, USA.
- 07/2002 – 5/2003 Adjunct Professor of Biology, College of Science and Mathematics, Fresno City College, Fresno, California, USA.
- 05/2001 – 5/2003 Fish and Wildlife Scientist, United States Department of Agriculture, California Department of Fish and Game, San Joaquin Timberlands Division.
- 08/2000 – 8/2002 M.S. Student, Department of Biology, California State University Fresno, Fresno, California, USA.
- 08/1997 – 8/2000 B.S. Student, Department of Biology, California State University Fresno, Fresno, California, USA.
- 08/1991 – 4/1997 Upper Division Distribution and Warehouse Manager, Broadview Dairy, Spokane, Washington, USA.
- 08/1989 – 5/1992 A.A.S. Student, Spokane Falls Community College, Spokane, Washington, USA.

INTERNATIONAL EXPERIENCE

- 08/2015 – Present Collaborating Scientist and Course Writer, The World Bank, Monarch Media, and Moscow State University, Russia.
- 06/2015 – Present Collaborating Scientist, Swedish Agricultural University, Umea' Sweden.
- 06/2015 Visiting Scholar/Scientist, China Agricultural University, Beijing, China.
- 12/2012 – 06/2015 Collaborating Scientist, Max Planck Institute of Biogeochemistry, Jena, Germany.
- 12/2012 – 06/2015 Collaborating Scientist, Friedrich Schiller University, Jena, Germany.
- 11/2011 – Present Collaborating Scientist, Belgorod State University, Belgorod, Russia.

TEACHING EXPERIENCE

- 2014 – 2015 Instructor, Natural Resources 9490 – Ecohydrology: Contemporary Topics, University of Missouri.
- 2011 – 2015 Instructor, Natural Resources 3290 – Hydrologic Measurement Techniques, University of Missouri.
- 2011 – 2015 Instructor, Natural Resources 8290 – Hydrologic Measurement and Synthesis, University of Missouri.
- 2010 – 2015 Instructor, Forestry 4390/7390 (Online Courses) – Watershed Management and Water Quality, Department of Forestry, University of Missouri.
- 2009 – 2015 Instructor, Atmospheric Sciences 4520/7520 – Environmental Biophysics, Department of Soil, Environmental and Atmospheric Sciences, University of Missouri.

- 2008 – 2015 Instructor, Forestry 2540 – Forest Hydrology Field Studies, Department of Forestry, University of Missouri.
- 2008 – 2009 Instructor, Forestry 9087 – Graduate Seminar, Department of Forestry, University of Missouri.
- 2008 – Present Instructor, Forestry 8390 – Physical Hydrology, Department of Forestry, University of Missouri.
- 2007 – Present Instructor, Forestry 4390/7390 – Watershed Management and Water Quality, Department of Forestry, University of Missouri.
- 2005 – 2006 Instructor, Forestry 462 – Watershed Management, University of Idaho.
- 2002 – 2003 Instructor, Biology 1 – Principles of Biology, Biology 4 – Principles of Zoology, Biology 22 – Human Physiology, Fresno City College.
- 2000 – 2002 Graduate Teaching Assistant, Biological Science 130 – General Ecology, California State University Fresno.

HONORS AND AWARDS

- 2015 Invited Opponent for Ph.D. Dissertation defense at the Swedish University of Agricultural Sciences, Umeå, Department of Forest Ecology and Management. May 29th, 2015.
- 2015 Collaborator of the month award. College of Agriculture, Food and Natural Resources, University of Missouri. April 15th, 2015.
- 2015 MU Top Faculty Achievers Award by Chancellor R. Bowen Loftin, Tuesday March 3, 2015. By nomination.
- 2013 CAFNR Communications Fellow. A selective and comprehensive training program to communicate science effectively to differing audiences and advocate for CAFNR program areas.
- 2013 CAFNR International Programs. \$750 Honorarium for mentoring visiting scientists from Malawi, Africa during the fall 2013 Semester.
- 2013 2013 Missouri Chapter of the American Fisheries Society (MOAFS) Best Aquatic Student Poster Presentation, for Advisee: Sean Zeiger, for presentation at the 2013 Missouri Natural Resources Conference.
- 2012 2012 Outstanding Graduate Student Award, for Advisee: Pennan Chinnasamy (Ph.D. student), University of Missouri.
- 2011 Recognized for “who will be remembered in 100 years”. College of Agriculture, Food and Natural Resources, Collaborating for the Greater Good Celebration.
- 2011 Wakonse Fellow. Wakonse Conference on College Teaching, Camp Miniwanca, Lake Michigan.
- 2011 2010 Outstanding Paper Award. For advisee Edward Bulliner and his paper entitled, “Measuring and modeling stream temperature in a forested Ozark border stream: An energy balance approach. Summer 2011. American Geophysical Union.
- 2011 2011 Outstanding Graduate Student Award, for Advisee: Dandan Huang (M.S. student), University of Missouri.
- 2006 Awarded the first University of Idaho Doctoral Research Fellowship, 2006-2007, \$25,000.
- 2006 Awarded the Elva Anderson Snow Scholarship Award for academic achievement and leadership in snow hydrology research.

- 2005 Recognized for Exemplary Contributions as an Educator by California State University Fresno, and the Benjamin and Marion Kremen School of Education and Human Development.
- 2005 Graduate Research Excellence Award. Presented by the University of Idaho Graduate Student Association, and the Department of Forest Resources.

PUBLICATIONS IN REFEREED JOURNALS

- 1) Simpson, M., **J.A. Hubbart**, and N.I. Fox. 2016 (*in press*). Ground Truthed Performance of single- and Dual-Polarized Radar Rain Rates at Large Ranges. *Hydrological Processes*. DOI:
- 2) Simpson, M., and **J.A. Hubbart**. 2016 (*in press*). Spatial Trends of Precipitation Chemistry in the Central Plains Region of the United States. *Environmental Earth Sciences*. DOI:
- 3) Nichols, J., and **J.A. Hubbart**. 2016. Using Macroinvertebrate Assemblages and Multiple Stressors to Infer Urban Stream System Condition: A Case Study in the Central US. *Urban Ecosystems*. DOI: 10.1007/s11252-016-0534-4
- 4) Zeiger, S., and **J.A. Hubbart**. 2016. Quantifying Suspended Sediment Flux in a Mixed-Land-Use Urbanizing Watershed using a Nested-Scale Study Design. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2015.10.096
- 5) Kellner, E., and **J.A. Hubbart**. 2016. A Comparison of the Spatial Distribution of Vadose Zone Water in Forested and Agricultural Floodplains a Century after Harvest. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2015.10.080
- 6) Zeiger, S., and **J.A. Hubbart**. 2015. Quantifying Urban Stormwater Temperature Surges: A Central US Watershed Study. *Hydrology*. 2(4): 193-209; DOI: 10.3390/hydrology2040193
- 7) Zeiger, S., and **J.A. Hubbart**. 2015. Nested-Scale Nutrient Yields from a Mixed-Land-Use Urbanizing Watershed. *Hydrological Processes*. DOI: 10.1002/hyp.10716
- 8) Kellner, E., and **J.A. Hubbart**. 2015. Agricultural and Forested Land Use Impacts on Floodplain Shallow Groundwater Temperature Regime. *Hydrological Processes*. DOI: 10.1002/hyp.10645
- 9) Zeiger, S., **J.A. Hubbart**, S.H. Anderson, and M.C. Stambaugh. 2015. Measuring and Modeling Stream Water and Air Temperature Relationships in a Multiple Land Use Urban Watershed of the Central USA. *Hydrological Processes*. DOI: 10.1002/hyp.10617
- 10) Kellner, E., **J.A. Hubbart**, A. Ikem. 2015. A Comparison of Forest and Agricultural Shallow Groundwater Chemical Status a Century after Land Use Change. *Science of the Total Environment*. DOI: <http://dx.doi.org/10.1016/j.scitotenv.2015.05.052>. 529:82-90.
- 11) **Hubbart, J.A.**, T.E. Link, and J.A. Gravelle. 2015. Forest Canopy Reduction and Snowpack Dynamics in the Continental-Maritime Region of the U.S. *Forest Science*. DOI: <http://dx.doi.org/10.5849/forsci.14-025>
- 12) Zell, C., E. Kellner, and **J.A. Hubbart**. 2015. Land Use Impacts on Subsurface Floodplain Storage Capacity: A Midwest Case Study of Agricultural and Remnant Hardwood Forest Land Use Types. *Environmental Earth Sciences*. DOI: 10.1007/s12665-015-4700-4
- 13) Knapp, B.O., K. Stephan, and **J.A. Hubbart**. 2015. Structure and Composition of an Oak-Hickory Forest after 60 years of Repeated Prescribed Burning in Missouri, U.S.A. *Forest Ecology and Management*, 344: 95-109. DOI: <http://dx.doi.org/10.1016/j.foreco.2015.02.009>
- 14) Chinnasamy, P., and **J.A. Hubbart**. 2015. Stream and Shallow Groundwater Nutrient Concentrations in an Ozark Forested Riparian Zone of the Central USA. *Environmental Earth Sciences*. DOI: <http://dx.doi.org/10.1007/s12665-014-3880-7>

- 15) Chinnasamy, P., and **J.A. Hubbart**. 2014. Potential of MODFLOW to Model Hydrological Interactions in a Semikarst Floodplain of the Ozark Border Forest in the Central United States. *Earth Interactions*, 18, 1–24. DOI: <http://dx.doi.org/10.1175/EI-D-14-0015.1>
- 16) Kutta, E., and **J.A. Hubbart**. 2014. Improving Understanding of Microclimate Heterogeneity within a Contemporary Plant Growth Facility to Advance Climate Control and Plant Productivity. *Journal of Plant Sciences*, 2(5): 167-178.
- 17) Hooper, L.W., and **J.A. Hubbart**. 2014. Water Management in Kenya: Toward an Ethic of Sustainability. *Journal of Scientific Research and Reports*, 3(9): 1144-1152.
- 18) **Hubbart, J.A.**, E. Kellner, L. Hooper, A.R. Lupo, P.S. Market, P.E. Guinan, K. Stephan, N.I. Fox and B.M. Svoma. 2014. Localized Climate and Surface Energy Flux Alterations across an Urban Gradient in the Central U.S. *Energies*, 7: 1770-1791. doi:10.3390/en7031770
- 19) Lupo, A.R., I.I. Mokhov, Y.G. Chendev, M.G. Lebedeva, and **J.A. Hubbart**. 2014. Studying Summer Season Drought in Western Russia. *Advances in Meteorology*, 2014: 1-9. DOI:10.1155/2014/942027.
- 20) Sunde, M.G., H.S. He, B. Zou, **Hubbart, J.A.**, and A. Spicci. 2014. Imperviousness Change Analysis Tool (I-CAT) for simulating pixel-level urban growth. *Landscape and Urban Planning*, 124: 104-108.
- 21) Kellner, E., and **J.A. Hubbart**. 2014. Quantifying Urban Land-Use Impacts on Suspended Sediment Particle Size Class Distribution: A Method and Case Study. *Stormwater Journal*, 15(2):40-50.
- 22) Chinnasamy, P., and **J.A. Hubbart**. 2014. Measuring and Modeling Shallow Groundwater Flow between a Semi-Karst Border Stream and Ozark Forested Riparian Zone in the Central U.S. *Journal of Scientific Research and Reports*, 3(6): 844-865.
- 23) Du, E., T.E. Link, J.A. Gravelle, and **J.A. Hubbart**. 2013. Validation and Sensitivity Test of the Distributed Hydrology Soil Vegetation Model (DHSVM) in a Forested Mountain Watershed. *Hydrological Processes*. DOI: 10.1002/hyp.10110
- 24) **Hubbart, J.A.**, and C. Zell. 2013. Considering Streamflow Trend Analyses Uncertainty in Urbanizing Watersheds: A Case Study in the Central U.S. *Earth Interactions*, 17(5):1-28.
- 25) **Hubbart, J.A.**, Kellner, E., and G. Freeman. 2013. A Case Study Considering the Comparability of Mass and Volumetric Suspended Sediment Data. *Environmental Earth Sciences*. 10.1007/s12665-013-2788-y
- 26) Chinnasamy, P., **J.A. Hubbart**, and G. Agoramoorthy. 2013. Using Remote Sensing Data to Improve Groundwater Supply Estimations in Gujarat, India. *Earth Interactions*, 17:1-17.
- 27) **Hubbart J.A.**, G. Freeman and K. Beaven. 2013. Comparing Volumetric and Gravimetric Suspended Sediment Concentration Data from a Midwest Stream. *Stormwater Journal*, 14(5):36-41.
- 28) Zell, C., and **J.A. Hubbart** 2013. Interdisciplinary Linkages of Biophysical Processes and Resilience Theory: Pursuing Predictability. *Ecological Modelling*, 248:1-10.
- 29) **Hubbart, J.A.**, and E. Kellner. 2013. Bryophyte Mass to Stem Length Ratio: a Potential Metric for Eco-Physiological Response to Land Use. *Open Journal of Ecology*, 3(1):1-10. 10.4236/oje.2013.31001.
- 30) Bulliner, E., and **J.A. Hubbart**. 2012. An Improved Hemispherical Photography Model for Stream Surface Shortwave Radiation Estimations in a Central U.S. Hardwood Forest. *Hydrological Processes*, DOI: 10.1002/hyp.9524.
- 31) Zell, C.C., and **J.A. Hubbart**. 2012. An Evaluation of Light Intensity Functions in Determining Shaded Reference Stream Metabolism. *Journal of Environmental Management*, 97:69-77.

- 32) **Hubbart, J.A.** 2012. Elemental Hair Analysis of the California Ground Squirrel (*Otospermophilus beecheyi*): An Investigation of Age Class, Gender, Seasons and Habitats. *Journal of Biology and Life Sciences*, 3(1):20-34.
- 33) **Hubbart, J.A.** 2012. The California Ground Squirrel (*Spermophilus beecheyi*): Characterizing an Adaptive Fossorial Vertebrate for Improved Science-Based Management Decisions. *Journal of Biology and Life Sciences*, 3(1):1-12.
- 34) **Hubbart, J.A.** 2012. Using Sediment Particle Size Class Analysis to Better Understand Urban Land-Use Effects. *International Journal of Applied Science and Technology*, 2(1):12-27.
- 35) Jachowski, D.S. and **J.A. Hubbart.** 2012. Seasonal Variation in Pelage Coloration of California Ground Squirrels (*Otospermophilus beecheyi*) in Areas of Differing Land Use. *Journal of Biology and Life Sciences*, 3(1):13-19.
- 36) **Hubbart, J.A.** 2012. Hair Analysis as an Environmental Health Bioindicator: A Case-Study using Pelage of the California Ground Squirrel. *The International Journal of Applied Science and Technology*, 2(3):277-294.
- 37) **Hubbart, J.A.** 2011. An Inexpensive Alternative Solar Radiation Shield for Ambient Air Temperature Micro-Sensors. *Journal of Natural and Environmental Sciences*, 2(2):9-14.
- 38) **Hubbart, J.A.**, R-M. Muzika, D. Huang, and A. Robinson. 2011. Bottomland Hardwood Forest Influence on Soil Water Consumption in an Urban Floodplain. *The Watershed Science Bulletin*, 3:34-43.
- 39) **Hubbart, J.A.** 2011. Origins of Quantitative Hydrology: Pierre Perrault, Edme Mariotte, and Edmund Halley. Special edition, *Water Resources Impact*, 13(6):15-17.
- 40) **Hubbart, J.A.**, T. Link, and William J. Elliot. 2011. Implementation Strategies to Improve WEPP Snowmelt Simulations in Mountainous Terrain. *The American Society of Agricultural and Biological Engineers*, 54(4):1333-1345.
- 41) **Hubbart, J.A.** 2011. Urban Floodplain Management: Understanding Consumptive Water-Use Potential in Urban Forested Floodplains. *Stormwater Journal*, 12(6):56-63.
- 42) Jones, J.R., and **J.A. Hubbart.** 2011. Empirical estimation of non-algal light attenuation in Missouri reservoirs using deviation from the maximum observed value in the Secchi-Chlorophyll relationship. *Lake and Reservoir Management*, 27:1-5.
- 43) **Hubbart, J.A.**, D.S. Jachowski, and D.A. Eads. 2011. Seasonal and Among-Site Variation in the Occurrence and Abundance of Fleas on California Ground Squirrels (*Otospermophilus beecheyi*). *Journal of Vector Ecology*, 36(1):117-123.
- 44) **Hubbart, J.A.** 2011. Current Understanding of the Alaska Marmot (*Marmota broweri*): A Sensitive Species in a Changing Environment. *Journal of Biology and Life Sciences*, 2(2):6-13.
- 45) Smith, T., and **J.A. Hubbart.** 2011. Low Impact Development: New Tricks for Older Communities in the Central U.S. *Erosion Control Journal*, 18(2):52-58.
- 46) **Hubbart, J.A.**, and N.A. Gebo. 2010. Quantifying the Effects of Land-Use and Erosion by Particle Size Class Analysis in the Central U.S. *Erosion Control Journal*, 17(7):43-49.
- 47) **Hubbart, J.A.** 2010. Water Resources Education: Preparing the Next Generation of Water Resource Professionals. Special edition, *Water Resources Impact*, 12(6):13-15.
- 48) **Hubbart, J.A.**, and G.W. Freeman. 2010. Sediment Laser Diffraction: A New Approach to an Old Problem in the Central U.S. *Stormwater Journal*, 11(7):36-44.

- 49) **Hubbart, J.A.**, J. Holmes, and G. Bowman. 2010. TMDLs: Improving Stakeholder Acceptance with Science-Based Allocations. *The Watershed Science Bulletin*, 01:19-24.
- 50) Kochendorfer, J., and **J.A. Hubbart**. 2010. The Relative Roles of Climate and Rural Land-Use Changes in Streamflow Trends in the Upper Mississippi River Basin. *The American Meteorological Society, Journal of Earth Interactions*, 14(20):1-12.
- 51) Koeniger, P., **J.A. Hubbart**, T.E. Link, and J.D. Marshall. 2008. Isotopic Variation of Snowcover and Streamflow in Response to Changes in Canopy Structure in a Snow-Dominated Mountain Catchment. *Hydrological Processes*, 22(4):557-566.
- 52) **Hubbart, J.A.**, K.L. Kavanagh, R. Pangle, T.E. Link, and A. Schotzko. 2007. Cold air drainage and modeled nocturnal leaf water potential in complex forested terrain. *Tree Physiology*, 27:631-639.
- 53) **Hubbart, J.A.**, T.E. Link, J.A. Gravelle, and W.J. Elliot. 2007. Timber Harvest Impacts on water Yield in the Continental/Maritime Hydroclimatic Region of the U.S. In: Special Issue on Headwater Forest Streams, *Forest Science*, 53(2):169-180.
- 54) Karwan, D.L., J.A. Gravelle, and **J.A. Hubbart**. 2007. Effects of Timber Harvest on Suspended Sediment Loads in Mica Creek, Idaho. In: Special Issue on Headwater Forest Streams, *Forest Science*, 53(2):181-188.
- 55) **Hubbart, J.A.**, T.E. Link, C. Campbell, and D. Cobos. 2005. An evaluation of a low-cost temperature measurement system. *Hydrologic Processes*, 19:1517-1523.
- 56) **Hubbart, J.A.** 2002. Economical Tripod Mount. *California Fish and Game Journal* 88(3):142-144.

PUBLICATIONS: BOOKS

- 1) Hubbart, J. 2012. 2012. *Contributor: New Research Opportunities in the Earth Sciences*. Committee on New Research Opportunities in the Earth Sciences at the National Science Foundation, National Research Council (NRC), 117 pages. ISBN: 978-0-309-21924-2

PUBLICATIONS IN SUBMISSION TO REFEREED JOURNALS

I currently have 15 articles in various stages of submission.

NON-REFEREED PUBLICATIONS

- 1) Hubbart, J.A. 2015. Hinkson Creek Watershed. Theses and Publications from the Interdisciplinary Hydrology Laboratory (IHL), 2010 – 2015. Hinkson Creek Collaborative Adaptive Management publication.
- 2) Knapp, B.O., K. Stephan, and J.A. Hubbart. 2015. Structure and Composition of an Oak-Hickory Forest after over 60 Years of Repeated Prescribed Burning in Missouri, USA. The Oak Woodlands and Forests Fire Consortium. Research Brief, written by D. Vaughn.
- 3) Broz, R., and J.A. Hubbart. 2014. Creating a Conduit for Water Resources and Water Quality Expertise: The CAFNR Water Center. *Confluence*, 2(1).
- 4) Lupo, A.R., I.I. Mokhov, Y.G. Chendev, M.G. Lebedeva, and **J.A. Hubbart**. 2012. Forecasting Summer Season Drought in Western Russia. *Proceedings: American Meteorological Society, 25th Conference on Weather Analysis and Forecasting, 21st Conference on Numerical Weather Prediction, and 46th Canadian Meteorological and Oceanographical Society (CMOS) Congress 2012, 29 May–1 June 2012, Montreal, Quebec, Canada.*

- 5) **Hubbart, J.A.** (Lead Author); Peter Hughes, C Michael Hogan (Topic Editor) "Environmental Biophysics". In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). First published in the Encyclopedia of Earth April 28, 2010; Last revised Date October 14, 2011; Retrieved November 27, 2011 <http://www.eoearth.org/article/Environmental_Biophysics?topic=49585>
- 6) Hogan, C. M. (Lead Author); **Hubbart, J.A.** (Contributing Author); Milton Beychok (Topic Editor) "Meteorology". In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). First published in the Encyclopedia of Earth May 19, 2010; Last revised Date October 29, 2011; Retrieved November 27, 2011 <<http://www.eoearth.org/article/Meteorology?topic=49479>>
- 7) Schulz, J.H., and **J.A. Hubbart**. 2009. New Research Program in Hinkson Creek Watershed. Missouri Department of Conservation, Stream Newsletter.
- 8) **Hubbart, J.A.** and J.R. Jones. 2009. Flooding and Inland Waters. In: The Encyclopedia of Inland Waters. (Gene E. Likens, Editor). Oxford: Elsevier, 3:88-91. *Re-published in: Biogeochemistry of Inland Waters*, pp 644-647 *and River Ecosystem Ecology: A Global Perspective*, pp76-79.
- 9) **Hubbart, J.A.** (Lead Author); J. Kundell (Topic Editor) . "History of hydrology". In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). First published in the Encyclopedia of Earth February 11, 2008; Last revised Date February 11, 2008; Retrieved October 27, 2010 <http://www.eoearth.org/article/History_of_hydrology>
- 10) **Hubbart, J.A.** (Lead Author); M. Pidwirny (Contributing Author); A.K. Panikkar (Topic Editor). "Hydrologic cycle". In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). First published in the Encyclopedia of Earth March 6, 2010; Last revised Date March 6, 2010; Retrieved October 27, 2010 <http://www.eoearth.org/article/Hydrologic_cycle>
- 11) **Hubbart, J.A.** (Lead Author); J. Kundell (Topic Editor). "Hydrological problems". In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). First published in the Encyclopedia of Earth August 24, 2006; Last revised Date August 24, 2006; Retrieved October 27, 2010 <http://www.eoearth.org/article/Hydrological_problems>
- 12) **Hubbart, J.A.** (Lead Author); E. Tollner (Topic Editor). "Perspectives of hydrology". In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). First published in the Encyclopedia of Earth September 12, 2007; Last revised Date September 12, 2007; Retrieved October 27, 2010 <http://www.eoearth.org/article/Perspectives_of_hydrology>
- 13) **Hubbart, J.A.** (Lead Author); M. Matlock (Topic Editor). "Society and water resources". In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). First published in the Encyclopedia of Earth March 27, 2009; Last revised Date March 27, 2009; Retrieved October 27, 2010 <http://www.eoearth.org/article/Society_and_water_resources>
- 14) Medalye, J., **J.A. Hubbart** (Lead Author); J. Kundell (Topic Editor). "Water resources". In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). First published in the Encyclopedia of Earth September 2, 2008; Last revised Date September 2, 2008; Retrieved October 27, 2010 <http://www.eoearth.org/article/Water_resources>

- 15) **Hubbart, J.A.** (Lead Author); M. Matlock (Topic Editor). "Forest harvest and water yield". In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). First published in the Encyclopedia of Earth October 6, 2009; Last revised Date October 6, 2009; Retrieved October 27, 2010
<http://www.eoearth.org/article/Forest_harvest_and_water_yield>
- 16) **Hubbart, J.A.** (Lead Author); M. Matlock (Topic Editor). "Variables affecting water yield". In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). First published in the Encyclopedia of Earth October 6, 2006; Last revised Date October 6, 2006; Retrieved October 27, 2010
<http://www.eoearth.org/article/Variables_affecting_water_yield>
- 17) Burba, C. (Lead Author); **J.A. Hubbart**, M. Pidwirny (Contributing Author); J.S. Weis, D.R. Taub (Topic Editor). "Evapotranspiration". In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). First published in the Encyclopedia of Earth August 3, 2010; Last revised Date August 3, 2010; Retrieved October 27, 2010 <<http://www.eoearth.org/article/Evapotranspiration>>
- 18) **Hubbart, J.A.** 2005. The Hydrologic Cycle, Water Resources, and Society. In The Encyclopedia of Water. John Wiley and Sons Publishing, Ostrander, OH, USA.
- 19) **Hubbart, J.A.** 2005. Hydrologic History, Problems and Perspectives. In The Encyclopedia of Water. John Wiley and Sons Publishing, Ostrander, OH, USA.
- 20) **Hubbart, J.A.** 2004. Leishmaniasis. In Magill's Medical Guide, Third Revised Edition. Salem Press, Pasadena, California, USA.
- 21) **Hubbart, J.A.** 2004. Kwashiorkor. In Magill's Medical Guide, Third Revised Edition. Salem Press, Pasadena, California, USA.
- 22) **Hubbart, J.A.** 2004. Chagas' disease. In Magill's Medical Guide, Third Revised Edition. Salem Press, Pasadena, California, USA.
- 23) **Hubbart, J.A.** 2004. Beriberi. In Magill's Medical Guide, Third Revised Edition. Salem Press, Pasadena, California, USA.
- 24) **Hubbart, J.A.** 2004. Periodontitis. In Magill's Medical Guide, Third Revised Edition. Salem Press, Pasadena, California, USA.
- 25) Tibstra, R.M., J. A. Pearson, and **J.A. Hubbart**. 2003. Aquatic Resource Assessment Unit Annual Report 2001. California Department of Fish and Game, San Joaquin Valley and Southern Sierra Region. 19 pp.
- 26) **Hubbart, J.A.** 2002. Current distribution of the Wolverine (*Gulo gulo*) in the Sierra Nevada study protocol. Study site establishment and initial assessment. Study design and protocols. Current research funded by the California Department of Fish and Game, region 4, Timberlands Conservation Program 2002.
- 27) **Hubbart, J.A.** 2002. Stanislaus National Park study protocol. Surveying for furbearers in Stanislaus National Forest utilizing camera stations. Study design and protocol constructed for California Department of Fish and Game employees. Current and ongoing research funded by the California Department of Fish and Game, region 4, Timberlands Conservation Program 2002.
- 28) **Hubbart, J.A.** 2001. White river watershed study protocol. Surveying for furbearers in the White river watershed utilizing camera stations. Study design and protocol constructed for California Department of Fish and Game employees. Current and ongoing research funded by the California Department of Fish and Game, region 4, Timberlands Conservation Program 2001.

- 29) **Hubbart, J.A.** 2001. Surveying for furbearers. A field manual for surveying furbearers in the Sierra Nevada. Constructed for California Department of Fish and Game employees. Study design and protocols. Current and ongoing research funded by the California Department of Fish and Game, region 4, Timberlands Conservation Program 2001.
- 30) **Hubbart, J.A.** 2001. Ants. Magill's Encyclopedia of Science: Animal Life. Salem Press, Inc. Hackensack NJ, USA.
- 31) **Hubbart, J.A.** 2001. Rabbits, Hares, and Pika's. Magill's Encyclopedia of Science: Animal Life. Salem Press, Inc. Hackensack NJ, USA.
- 32) **Hubbart, J.A.** 2001. Foxes. Magill's Encyclopedia of Science: Animal Life. Salem Press, Inc. Hackensack NJ, USA.
- 33) **Hubbart, J.A.** 2001. Mountains. Magill's Encyclopedia of Science: Animal Life. Salem Press, Inc. Hackensack NJ, USA.
- 34) **Hubbart, J.A.** 2001. The Fauna of the Arctic. Magill's Encyclopedia of Science: Animal Life. Hackensack NJ, USA. Salem Press, Inc.
- 35) **Hubbart, J. A.** 2001. The Fauna of the Antarctic. Magill's Encyclopedia of Science: Animal Life. Hackensack NJ, USA. Salem Press, Inc.

PUBLISHED CONFERENCE PROCEEDINGS

- 1) **Hubbart, J.A.** 2016. The New WVU Institute of Water Security and Science: Purposes and Directions. 2016 West Virginia Mine Drainage Task Force Symposium. March 29-30, 2016. Morgantown, West Virginia. (Oral)
- 2) Lupo, A.R*, I.I. Mokhov, Y.G. Chendev, M.G. Lebedeva, and **J.A. Hubbart.** 2012. Forecasting Summer Season Drought in Western Russia. American Meteorological Society, 25th Conference on Weather Analysis and Forecasting, 21st Conference on Numerical Weather Prediction, and 46th Canadian Meteorological and Oceanographical Society (CMOS) Congress 2012, 29 May–1 June 2012, Montreal, Quebec, Canada. (Oral)
- 3) Stephan, K*, and **J.A. Hubbart.** 2012. Vegetation Structure and Soil Water Content after 60 years of Repeated Prescribed Burning in the Missouri Ozarks. Proceedings of the 4th Fire in Eastern Oaks Conference. U.S. Forest Service, GTR-NRS-P-102. (Oral)

PRESENTATIONS AND SEMINARS

Session Convener, Moderator

- 4) **Hubbart, J.A.** April 16th, 2015. Symposium Organizer and Convener. 1st Annual Symposium of the Center for Watershed Management and Water Resources. Symposium Title: Water for Agriculture: Challenges for this Century.
- 5) **Hubbart, J.A.** September 30th, 2014. Convener. 3rd meeting of the College of Agriculture, Food and Natural Resources, Center for Watershed Management and Water Quality.
- 6) **Hubbart, J.A.** April 24th, 2014. Convener. 2nd meeting of the College of Agriculture, Food and Natural Resources, Center for Watershed Management and Water Quality.
- 7) **Hubbart, J.A.** March 18th, 2014. Convener. 1st meeting of the College of Agriculture, Food and Natural Resources, Center for Watershed Management and Water Quality.

- 8) **Hubbart, J.A.** March 25-27, 2013. Special Session Convener. Multiple Land-Use Watersheds: Hydrology, Water Quality, and Biological Health I and II. American Water Resources Association Spring Specialty Conference: Agricultural Hydrology and Water Quality II.
- 9) **Hubbart, J.A.** March 25-27, 2013. Special Session Convener. Multiple Land-Use Watersheds: Hydrology, Water Quality, and Biological Health I and II. American Water Resources Association Spring Specialty Conference: Agricultural Hydrology and Water Quality II.
- 10) **Hubbart, J.A.** May 30, 2011. Book review session leader / convener (How of Happiness, by Sonya Lyubomirsky). Wakonse Conference on College Teaching, Camp Miniwanca, Lake Michigan, May 26-31, 2011.
- 11) **Hubbart, J.A.** April 21, 2011. Moderator. Linkages among Midwest Watersheds, Land-use Practices, and Gulf of Mexico Vitality. 2011 Missouri Life Sciences Week, April 18-23, 2011.

Invited Presentations (lead author presenting)

- 1) **Hubbart, J.A.** 2016. The New WVU Institute of Water Security and Science: Purposes and Directions. 2016 West Virginia Mine Drainage Task Force Symposium. March 29-30, 2016. Morgantown, West Virginia.
- 2) **Hubbart, J.A.** 2016. The WVU Institute of Water Security and Science: Mission and Vision. Society of Environmental Professionals. Davis College of Agriculture, Natural Resources and Design. West Virginia University, March 2, 2016.
- 3) **Hubbart, J.A.** 2015. Ecosystem CO₂ and H₂O Flux: The Missouri AmeriFlux Site, Application for Quantifying Crop Productivity and Water Use. High-efficient Water Use in Agriculture, Project (111 Plan) Workshop. Water and Food Security under Changing Environments. China Agricultural University, Beijing, China, June 1 – 7, 2015.
- 4) **Hubbart, J.A.** 2015. Ameriflux: The Missouri Site; 10-yr of Ecosystem CO₂ and H₂O Flux and a Greater Westward Influence of Drought in the Eastern Deciduous Forest. Swedish University of Agricultural Sciences, Umeå, Sweden, May 27th, 2015.
- 5) Power, R., **Hubbart, J.A.**, Gumbert, A., Berger, W. and M. Schmitt. May 19, 2015. Hypoxia Task Force and LGU SERA-46 Priorities for Collaborative Work. Land-Grant University Southern Region Extension and Research Activities Committee 46 (SERA-46) May 18-20, 2015, Columbus, Ohio.
- 6) Schmitt, M., Power, R., **Hubbart, J.A.** Berger, W. May 19, 2015. Land-Grant University Faculty Perspectives on Gulf Hypoxia. Land-Grant University Southern Region Extension and Research Activities Committee 46 (SERA-46) May 18-20, 2015, Columbus, Ohio.
- 7) Power, R., and **Hubbart, J.A.** May 19, 2015. What is SERA-46. Land-Grant University Southern Region Extension and Research Activities Committee 46 (SERA-46) May 18-20, 2015, Columbus, Ohio.
- 8) **Hubbart, J.A.** May 19, 2015. Mixed-Land-Use Hydrology, Pollutant Transport and Loading: The IHL. Land-Grant University Southern Region Extension and Research Activities Committee 46 (SERA-46) May 18-20, 2015, Columbus, Ohio.
- 9) **Hubbart, J.A.** April 14, 2015. A Watershed Case Study – Hinkson Creek to the Gulf. Missouri River Relief, Rocheport, Missouri.
- 10) **Hubbart, J.A.** February 13, 2015. College of Agriculture, Food, and Natural Resources Center for Watershed Management and Water Quality. Breaking Down Silos: The Role of Partnership in Watershed Planning. 2015 Watershed Workshop. University of Missouri Extension, February 13-14, 2015.

- 11) **Hubbart, J.A.** and L. Hooper. October 29, 2014. Highlights of the Hinkson Creek Physical Habitat Assessment in the Upper Reaches, E. O’Rear Road to the Headwaters. Hinkson Creek Watershed Collaborative Adaptive Management Science Team meeting.
- 12) **Hubbart, J.A.** October 1, 2014. Creating a Conduit for Water Resources and Water Quality Expertise: The CAFNR Water Center. Extension Beyond Borders: Strengthening Networks for More Effective Water Resource Management. North Central Region Water Network Annual Conference.
- 13) **Hubbart, J.A.** and E. Kellner. April 11, 2014. Urban Water Quality: Suspended Sediment Regimes and University Leadership. Oral presentation, University S&T, Department of Civil, Architectural & Environmental Engineering.
- 14) Hooper, L., and **J.A. Hubbart**. April 4, 2014. Physical Habitat Assessment of Hinkson Creek, Boone County, Missouri. A presentation to Our Wild Nature group, Columbia, Missouri.
- 15) Hooper, L., and **J.A. Hubbart**. March 27, 2014. Interim Report on the Status of Physical Habitat Assessment of Hinkson Creek, Boone County, Missouri. Hinkson Creek Watershed Collaborative Adaptive Management Stakeholders Committee meeting.
- 16) **Hubbart, J.A.** March 14, 2014. The CAFNR Center for Watershed Management and Water Quality. CAFNR presentation during biannual faculty meeting, University of Missouri, Missouri, USA.
- 17) **Hubbart, J.A.** and K. Smarr. January 13, 2014. Empowering Faculty to be Brand Advocates. Power Up CASE VI Conference, Kansas, Missouri, USA.
- 18) **Hubbart, J.A.** November 6, 2013. Native Willows and Floodplain Forests for Stormwater Management. Grow Native; 2013 Professional Member Conference of the Missouri Prairie Foundation. Oral presentation and field-site tour.
- 19) **Hubbart, J.A.** April 23, 2013. Science, Politics and Society. An Informal Discussion with the MU Student Chapter of the Soil and Water Conservation Society, University of Missouri, Columbia, MO.
- 20) **Hubbart, J.A.** February 25, 2013. Panel to discuss “Hydrology and the Impact of Drought” with visiting scientists and administration from the Missouri Department of Natural Resources, University of Missouri, Columbia, MO.
- 21) **Hubbart, J.A.** February 20, 2013. University of Missouri Fish and Wildlife Freshman Interest Group (FIG) presentation on research as a career. University of Missouri, Columbia, MO.
- 22) **Hubbart, J.A.** January 9, 2013. Floodplain Forests: Flood Attenuation, Landscape Connections and Energy Solutions. 4th Annual Agroforestry Symposium. University of Missouri, Columbia, MO.
- 23) **Hubbart, J.A.** January 7, 2013. Native Willows and Floodplain Forests: Stormwater Management and Energy Solutions. National Green Centre Convention, by the Western Nursery & Landscape Association. St. Louis Convention Center. St. Louis, MO.
- 24) **Hubbart, J.A.*.** 2012. Hydrological Processes, Suspended Sediment and Chemical Loading in a Multiple Land-Use Watershed of the Central USA. Max Planck Institute of Biogeochemistry, Jena, Germany, December 18th, 2012. (Oral)
- 25) Nichols, J., and **J.A. Hubbart**. September 28, 2012. Macroinvertebrate Assemblages in a Multi-Use Impacted Stream of the Midwest: Water Quality, Woody Roots and Physical Habitat. Missouri Department of Conservation, Central Regional Office, Columbia, MO.
- 26) **Hubbart, J.A.** September 16, 2012. A Water Ethic: Sustainability. Presentation to incoming freshman about water sustainability. Sustainable Peers Reaching Out. University of Missouri Environmental Leadership Office. University of Missouri, Columbia, MO.

- 27) **Hubbart, J.A.** September 7, 2012. Contemporary Forest Hydrology: The Nexus of Wildland and Built Environments. Missouri Department of Conservation, Central Regional Office, Columbia, MO.
- 28) **Hubbart, J.A.** August 1, 2012. Hinkson Creek: Collaborative Adaptive Management. Hinkson Collaborative Adaptive Management (CAM) Stakeholders Meeting Presentation. Boone County Commission Building, Columbia, MO.
- 29) **Hubbart, J.A.** July 11, 2012. Prairie Fork Conservation Area: An Overview of Current Projects Objectives and Goals. Presentation for the University of Missouri Conservation Honors Program, University of Missouri, Columbia, MO.
- 30) **Hubbart, J.A.** July 10, 2012. Hinkson Creek: Collaborative Adaptive Management. Hinkson Collaborative Adaptive Management (CAM) Science and Advisory Team Presentation. University of Missouri, Columbia, MO.
- 31) **Hubbart, J.A.** June 1, 2012. Trees for Stormwater Runoff Best Management Practices in Urban Watersheds. University of Missouri, Botanic Garden Advisory Council.
- 32) **Hubbart, J.A.** May 16, 2012. Hinkson Creek Watershed: Science-Based Understanding for Adaptive Management. Hinkson Collaborative Adaptive Management (CAM) Science Team Presentation.
- 33) **Hubbart, J.A.** March 28, 2012. University of Missouri, Environmental Affairs and Sustainability Committee, special presentation, "University of Missouri, EASC: Organization and Planning".
- 34) **Hubbart, J.A.** October 14, 2011. Invited guest speaker by Dr. Clark Gantzer for Environmental Science 1100. I met the class at one of my experimental watershed gauge sites (Broadway Ave) to talk about urban land use hydrology and water quality and technologies for monitoring.
- 35) **Hubbart, J.A.** August 19, 2011. Current Research in Hinkson Creek Watershed: MU Interdisciplinary Hydrology Laboratory Status Report. A presentation to the Hinkson Creek Adaptive Management Science Team (University of Missouri, Missouri Dept. of Natural Resources, Boone County).
- 36) **Hubbart, J.A.** August 16, 2011. Hinkson Creek Watershed: Providing Science-Based Leadership For Adaptive Management. A presentation to the Missouri Department of Natural Resources, 319 grant review.
- 37) **Hubbart, J.A.** April 28, 2011. The University of Missouri: Preparing the Next Generation of Water Resource Professionals. Presentation for Environmental Protection Agency, Dr. Karl Brooks (EPA Region 7 Administrator) representing the UM College of Agriculture, Food and Natural Resources.
- 38) **Hubbart, J.A.** April 25, 2011. Hinkson Creek Watershed: Providing Science-Based Leadership for Adaptive Management. Presentation to Boone County, and City of Columbia Mayor, and Administrators, Boone County Building, Columbia, MO.
- 39) **Hubbart, J.A.** April 4, 2011. Human Disturbance and Urban Ecosystem Health: Can There Be Both? Invited Speaker, Discussions on Science and Public Policy (GH1070). University of Missouri, Department of Psychology.
- 40) **Hubbart, J.A.**, and G. Freeman. March 29th, 2011. Suspended Sediment Trends in a Multiple Landuse Watershed. In. Pathways to Rehabilitation: Identifying Causes of Stream Impairment Due to Multiple Stresses, USGS CERC Workshop, Columbia, MO.
- 41) **Hubbart, J.A.** March 24, 2011. Improving Urban Floodplain Management: Implications for Stormwater Mitigation. Presentation to University of Missouri, Environmental Health and Safety, Sustain Mizzou, technology transfer, and fostering continued research partnerships.

- 42) **Hubbart, J.A.** March 9, 2011. A TMDL for the Hinkson Creek Watershed: Volume Based Flow Reductions. Guest speaker for Limnology Course (Dr. Jack Jones), University of Missouri, Department of Fisheries and Wildlife Sciences.
- 43) Schulz, J.H. and **J.A. Hubbart**. August 30, 2010. A Vision for a Watershed Management and Research Program: Linking Physical Processes, Ecology, and People in the Hinkson Creek Watershed. Department of Forestry, University of Missouri, Columbia, MO.
- 44) **Hubbart, J.A.** July 15, 2010. Prairie Fork Conservation Area: An Overview of Current Projects Objectives and Goals. Presentation for the University of Missouri Conservation Honors Program, University of Missouri, Columbia, MO.
- 45) **Hubbart, J.A.** April 20, 2010. Hinkson Creek Watershed: An Overview of Current Projects. Presentation for Water Quality Coordinating Committee of Missouri Department of Natural Resources. USGS Columbia Environmental Research Center, Columbia, MO.
- 46) **Hubbart, J.A.** March 6, 2010. Improving Understanding of Dynamic Urban Hydrologic Processes and Water Quality in the Central U.S. Presentation to the 2010 Boone County Stream Team Summit, Columbia, MO.
- 47) Schulz, J.H., and **J.A. Hubbart**. February 12, 2010. Hinkson Creek: Linking Physical Processes, Ecology, and People: A vision for a watershed management and research program. Invited presentation to the Geotechnical & GeoEnvironmental Engineering Seminar, Dept. of Civil and Environmental Engineering, University of Missouri, Columbia, MO.
- 48) **Hubbart, J.A.**, and Heers, Jesse. December 1, 2009. Campbell Scientific Training. An Introduction to LoggerNet 4.0 and the CR1000 Datalogger. A half-day Campbell Scientific training session hosted by the University of Missouri, School of Natural Resources.
- 49) **Hubbart, J.A.** November 30, 2009. Interdisciplinary Hydrologic Science: Towards Improved Understanding of Urban Hydrologic Processes and TMDL Allocations. Department of Civil and Environmental Engineering, Environmental Group, and Environmental Compliance Students, University of Missouri, Columbia, MO.
- 50) **Hubbart, J.A.** October 28, 2009. Sustain Mizzou: The Land Trust Concept, Greenbelt Land Trust of Missouri. Stewart Hall Auditorium, University of Missouri, Columbia, MO.
- 51) **Hubbart, J.A.** November 4, 2009. The US Geological Survey, CERC. Urban Ecosystems: Alterations to Peakflow, Microclimate and the Natural Environment, Future Directions. USGS, Columbia, MO.
- 52) **Hubbart, J.A.** November 12, 2008. Land Use Impacts on Hydrologic Processes and Water Quality. A seminar presented during the Environmental Science Club for Water Quality and Conversation Week, School of Natural Resources, University of Missouri, Columbia, MO.
- 53) **Hubbart, J.A.** September 16, 2008. The Effects of Management on Hydrologic Processes in Rocky Mountain and Ozark Mountain Watersheds. The College of Agricultural & Natural Sciences, Lincoln University, Jefferson City, MO.
- 54) **Hubbart, J.A.** and K. Stephan. July 29, 2008. Effects of Forest Harvest and Wildfire on Hydrologic Processes and Nitrogen Dynamics in Rocky Mountain and Ozark Mountain Watersheds. Friedrich-Schiller University, Institute for Ecology, Jena, Germany.
- 55) **Hubbart, J.A.** April 19, 2008. The Impacts of Development on Water Quality: What Effects Do Different Land Uses Have On Water Quality and How Does Human Activity Affect the Delivery of Water to Streams. The Lakes of Missouri Volunteer Program.

- 56) **Hubbart, J.A.** January 10, 2007. Measuring and Modeling Hydrologic Responses to Timber Harvest in a Continental/Maritime Mountainous Environment. A Synthesis of Current Results and Future Directions of Research at the Mica Creek Experimental Watershed. UICWF Mica Creek working group meeting,
- 57) Link, T.E., T. Cundy, J. Gravelle, **J.A. Hubbart**, D. Karwan, and J. Broglio. September 28, 2006. Findings From the Mica Creek Test of the Idaho Forest Practices Rules. The National Council for Air and Stream Improvement (NCASI), West Coast Regional Meeting, Portland, OR.
- 58) **Hubbart, J.A.** March 28, 2006. Measuring and Modeling Hydrologic Responses to Timber Harvest in a Continental/Maritime Mountainous Environment. A Synthesis of Current Results and Future Directions of Research at the Mica Creek Experimental Watershed. UICWF Mica Creek working group meeting, Lewiston, ID.
- 59) **Hubbart, J.A.** March 7-8, 2006. Forest Harvesting Impacts on the Hydrologic Yield of a Mountainous Watershed in the Continental/Maritime Hydroclimatic Region. Oral Presentation for: the 23rd Annual Inland Empire Forest Engineering Conference – Moscow, ID,
- 60) **Hubbart, J.A.**, T.E. Link, J.A. Gravelle, and W.J. Elliot. January 20, 2006. Timber Harvest Impacts on the Hydrologic Yield of the Mica Creek Watershed. Oral presentation delivered at: Cumulative effects of contemporary timber harvest practices in a continental/maritime mountainous watershed: A synthesis of current results from the Mica Creek Study. Potlatch Corporation, Clarkston, WA.

Conferences (= presenting author)*

- 1) Simpson, M*., **J.A. Hubbart**, and N. Fox. 2015. Impacts of Spatial and Temporal Variability on Radar Rainfall Estimation as a Function of Distance. Annual NSF EPSCoR Meeting, June 2, 2015.
- 2) **J.A. Hubbart***, S.G. Pallardy, and L. Gu. 2015. A Greater Westward Influence of Drought in the Eastern Deciduous Forest. The 2015 Environmental System Science (EES) Investigators Meeting. Bolger Center, Potomac MD, April 28-29. (Poster)
- 3) Halley, A.W*., **J.A. Hubbart**, S.G. Pallardy, and L. Gu. 2015. Monitoring Oak-Hickory Forest Mortality with Biological Inventories in Central Missouri. The 2015 Environmental System Science (EES) Investigators Meeting. Bolger Center, Potomac MD, April 28-29. (Poster)
- 4) **J.A. Hubbart***, S.G. Pallardy, and L. Gu. 2015. A Greater Westward Influence of Drought in the Eastern Deciduous Forest. AmeriFlux Principle Investigators meeting, Omni Shoreham Hotel, Washington D.C. January 29th – 30th. (Poster)
- 5) Halley, A.W*., **J.A. Hubbart**, S.G. Pallardy, and L. Gu. 2015. Monitoring Oak-Hickory Forest Mortality with Biological Inventories in Central Missouri. AmeriFlux Principle Investigators meeting, Omni Shoreham Hotel, Washington D.C. January 29th – 30th. (Poster)
- 6) **J.A. Hubbart***, S.G. Pallardy, and L. Gu. 2015. A Greater Westward Influence of Drought in the Eastern Deciduous Forest. 5th North American Carbon Program (NACP) Principle Investigators meeting, Washington D.C. January 26th – 28th. (Poster)
- 7) Halley, A.W*., **J.A. Hubbart**, S.G. Pallardy, and L. Gu. 2015. Monitoring Oak-Hickory Forest Mortality with Biological Inventories in Central Missouri. 5th North American Carbon Program (NACP) Principle Investigators meeting, Washington D.C. January 26th – 28th. (Poster)
- 8) Zeiger, S*., **J.A. Hubbart**, and R. O’Hearn. 2015. Nutrient Export in an Urbanizing Agricultural Watershed of the Lower Missouri River Basin, U.S.A. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Oral)

- 9) Hooper, L*, **J.A. Hubbart**. 2015. A Stream Physical Habitat Assessment in an Urbanizing Watershed of the Central U.S.A. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)
- 10) Hogan, M*, **J.A. Hubbart**. 2015. Improving Mechanistic Understanding of the Role of Woody Roots in Erosion Prevention and Stream Bank Stabilization. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)
- 11) **J.A. Hubbart***, S.G. Pallardy, and L. Gu. 2015. A Greater Westward Influence of Drought in the Eastern Deciduous Forest. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)
- 12) Halley, A.W*, **J.A. Hubbart**, S.G. Pallardy, and L. Gu. 2015. Monitoring Oak-Hickory Forest Mortality with Biological Inventories in Central Missouri. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)
- 13) Beaven, K*, **J.A. Hubbart**, and K. Stephan. 2015. Investigating Soil Carbon, Nitrogen and Respiration across an Urban to Forested Gradient in Mid-Missouri. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)
- 14) Skornia, E.E*, J. Piercefield, A. Andrei, and **J.A. Hubbart**. 2015. The Effects of the Urban Gradient on Avian Population. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)
- 15) **Hubbart, J.A***, S. Zeiger, and L. Hooper. 2014. Understanding the Chloride Regime of a Midwest Mixed-Land-Use Watershed. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 14-207, 2014. (Poster)
- 16) Hooper, L*, **J.A. Hubbart**, G.W. Hosmer, and M.L. Hogan. 2014. Characterizing Physical Habitat of a Mixed-Land Use Stream of the Central U.S. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 14-207, 2014. (Poster)
- 17) Kellner, E*, and **J.A. Hubbart**. 2014. Rural Land Use Impacts on Floodplain Shallow Groundwater Temperature. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 14-207, 2014. (Poster)
- 18) Zeiger, S*, and **J.A. Hubbart**. 2014. Monitoring Stream Nutrient Concentration Trends in a Mixed-Land-Use Watershed. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 14-207, 2014. (Poster)
- 19) **Hubbart, J.A***, T.E. Link, J. Gravelle, W.J. Elliott, and E. Du. 2014. Effects of Contemporary Harvest Practices on Water Yield and Snowpack Dynamics in the Continental-Maritime Region of the USA. 24th IUFRO World Congress, Salt Lake City, USA., October 5th – 11th 2014. (Oral).
- 20) **Hubbart, J.A***, C. Zell, E. Kellner, and L. Hooper. 2014. Floodplain Forest Restoration: Rethinking Management Legacies for Flood Mitigation and Consumptive Water Use in Flood Prone Lands. 24th IUFRO World Congress, Salt Lake City, USA., October 5th – 11th 2014. (Oral).
- 21) Link, T*, J. Gravelle, **J.A. Hubbart**, D. Karwan, and E. Du. 2014. The Mica Creek Project: A Comprehensive Assessment of Environmental Effects of Contemporary Harvest Practices in the Interior Pacific Northwest, USA. 24th IUFRO World Congress, Salt Lake City, USA., October 5th – 11th 2014. (Poster).

- 22) Ghazanfarpour, N*, **J.A. Hubbard**, and C.J. Gantzer. 2014. Mapping Soil Erosion Risk in a Mountainous Catchment of Iran using a Field Indicator Method. 69th International Annual Conference of the Soil and Water Conservation Society. July 27-30, Lombard, Illinois, USA. (Poster)
- 23) McCann, L*, R. Broz., B. Allen, **J.A. Hubbard**, S. Anderson, and K. Shannon. 2014. Factors Affecting Adoption of Nutrient Management Practices by Farmers and Homeowners. 69th International Annual Conference of the Soil and Water Conservation Society. July 27-30, Lombard, Illinois, USA. (Poster)
- 24) Sunde, M.G*, H.S. He, **J.A. Hubbard**, and A. Spicci. 2014. Predicting Streamflow Response to Increased Imperviousness in an Urban Watershed using an Integrated Modeling Approach. Annual Convention of the Ecological Society of America (ESA), August 10-15, Sacramento, California, USA. (Oral)
- 25) Keane Tamara*, A. Ikem, J. Garth, **J.A. Hubbard**, and J. Barker. 2014. Improving the understanding of floodplain biogeochemical process in central U. S. urbanizing watershed. Lincoln University Student Research Symposium, Founders Hall, Jefferson City, Missouri. (Poster)
- 26) Sunde, M.G*, H.S. He., **J.A. Hubbard**, and A. Spicci. 2014. Predicting Streamflow Response to Increased Imperviousness in an Urban Watershed using an Integrated Modeling Approach. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 5th – 7th. (Poster)
- 27) Zeiger, S*, **J.A. Hubbard**, and R. O’Hearn. 2014. Monitoring Stream Nutrient Concentration Trends in a Mixed-Land-Use Watershed. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 5th – 7th. (Poster)
- 28) Zeiger, S*, and **J.A. Hubbard**. 2014. Improving Understanding of Land-Use Impacts on Water and Air Temperature Relationships in a Multi-Use Watershed of the Central U.S. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 5th – 7th. (Oral)
- 29) Kellner, E*, **J.A. Hubbard**, and A. Ikem. 2014. Agricultural Land Use Impacts on Floodplain Shallow Groundwater Chemistry in a Multi-Use Watershed of the Central U.S. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 5th – 7th. (Oral)
- 30) Kellner, E*, **J.A. Hubbard**, and G. Ward. 2014. University of Missouri Stormwater Quality Monitoring Project. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 5th – 7th. (Poster)
- 31) **Hubbart, J.A***, C.M. Carson, K. Beaven, and K. Stephan. 2014. Urban Forests: Mitigating the Urban Heat Island and Climate Change. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 5th – 7th. (Poster)
- 32) Hooper, L*, **J.A. Hubbard**, P. Blanchard, J. Engeln, and D. Michaelson. 2014. Characterizing Physical Habitat of a Mixed Land-Use Stream in the Central U.S. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 5th – 7th. (Poster)
- 33) Beaven, K.R*, C.M. Carson, **J.A. Hubbard**, and K. Stephan. 2014. Investigating Soil Characteristics across a Land-Use Gradient in Central Missouri. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 5th – 7th. (Poster)
- 34) McCann, L*, R. Broz., B. Allen, **J.A. Hubbard**, S. Anderson, and K. Shannon. 2013. Factors Affecting Adoption of Nutrient Management Practices by Farmers and Homeowners. 68th International Annual Conference of the Soil and Water Conservation Society. July 21-24, Reno, Nevada, USA. (Oral)

- 35) Hullinger, M*., and **J.A. Hubbart**. 2013. Linkages between Rainfall, Soil Erosion, Runoff and Sediment Transport: A Mizzou Advantage Undergraduate Research Team Project. Day Forum, April 30th, 2013. (Poster)
- 36) Hullinger, M*., and **J.A. Hubbart**. 2013. Linkages between Rainfall, Soil Erosion, Runoff and Sediment Transport: A Mizzou Advantage Undergraduate Research Team Project. Spring Undergraduate Research and Creative Achievements Forum to be held the afternoon of Tuesday, April 23, 2013. (Poster)
- 37) Ikem, A*., and **J.A. Hubbart**. 2013. Improving the Understanding of Floodplain Biogeochemical Processes in a Central U.S. Urbanizing Watershed. 17th Biennial Research Symposium. 1890 Resaerch: Sowing Seeds of Change for the Global Community. Jacksonville Florida, April 6-10, 2013. (Poster)
- 38) Kellner, E*., and **J.A. Hubbart**. 2013. Agricultural Land Use Impacts on Floodplain Shallow Groundwater Temperatures. American Water Resources Association's Spring Specialty Conference, Agricultural Hydrology and Water Quality II, St. Louis, MO, March 25-27, 2013. (Oral)
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- 131) **Hubbart***, J.A., and T.E. Link. 2005. Air Temperature Lapse Rate Dynamics in a Snow-Dominated Mountainous Watershed. 2005 Graduate Student Association Convention, Moscow ID, April 7, 2005. (Poster)
- 132) **Hubbart***, J.A., and T.E. Link. 2004. Air Temperature Lapse Rate Dynamics in a Snow-Dominated Mountainous Watershed. In: Abstracts with Programs. AGU – San Francisco, CA, December 13-17, 2004. (Poster)
- 133) Link*, T.E., J.A. Gravelle, **J.A. Hubbard**, A. Warnsing, E. Du, J. Boll, E. Brooks, and T. Cundy. 2004. The Mica Creek Experimental Watershed: An Outdoor Laboratory for the Investigation of Hydrologic Processes in a Continental/Maritime Mountainous Environment. In: Abstracts with Programs. AGU – San Francisco, CA, December 13-17, 2004. (Poster)

OUTREACH ACTIVITIES

- 1) Mizzou Central at the Mo State Fair. Booth Staffer at the Missouri State Fair, representing the College of Agriculture Food and Natural Resources and the University of Missouri, August 13th, 2013.
- 2) Student speed networking event “Exploring Different Professions in Water Resources”. The Spring American Water Resources Association (AWRA) specialty conference in St. Louis, MO, Tuesday March 26th, 2013.
- 3) Exploring Different Professions in Water Resources (For Student Attendees). Meeting with students interested in water resources professions. The American Water Resources 2013 Spring Specialty Conference, Agriculture, Hydrology and Water Quality II. Tuesday, March 26th, 12:00-1:30pm.
- 4) MU Researchers Address Climate Issues. Feature on KOMU Channel 8 News, by Nick Thompson, January 9th, 2013.

- 5) University of Missouri Stormwater Mast Plan. Featured article: MU Researchers Study Stormwater Controls at Hinkson Bottoms. November 2012.
- 6) Mizzou Central at the Mo State Fair. Booth Staffer at the Missouri State Fair, representing the College of Agriculture Food and Natural Resources and the University of Missouri, August 16th, 2012.
- 7) Sustainable Agriculture Research & Education Project, “Sustainability of a Short-Rotation Woody Biofuel System Compared to Grass Biofuel and Grain Cropping Systems’ Advisory Board meeting, March 27, 2012.
- 8) KFRU Radio talk show with David Lile. Talk show discussing local water issues, the Anatomy of a Stream video, and Hinkson Creek water quality issues. Oct 20, 2011.
- 9) Anatomy of a Stream. Invited guest interviewee for a video produced by the City of Columbia discussing streamflow, riparian areas, riparian forests, riparian management and water quality. Web Link: http://gocolumbiamo.granicus.com/MediaPlayer.php?view_id=3&clip_id=506. Oct 10, 2011.
- 10) School of Natural Resources Advisory Council committee meeting. Tour of Hinkson Creek Study site #4 and the Floodplain Study site. Discussion of related undergraduate and graduate student studies and educational experience opportunities.
- 11) Faculty Are People Too. September 15th, 2011. Meeting for Fall semester School of Natural Resources undergraduate orientations.
- 12) MU Pollution Studies Could Benefit Waterways Across the Nation. Feature in the Chancellor Brady Deaton’s annual presentation to the MU Board of Curators. March 11, 2011.
- 13) Introduction to Streamgauging, Monday, January 24, 2011. Co-presentation with Mr. Terry Colgan, Sutron Corporation. MU School of Natural Resources, Department of Forestry Seminar.
- 14) Lincoln University Research Outreach. August 20, 2010. Current Research in the Hinkson Creek Watershed Conducted by the Interdisciplinary Hydrology Laboratory. A presentation to Lincoln University researchers to invite collaborative research.
- 15) Missouri River Relief, Missouri River cleanup event, September 19, 2009. Missouri River Relief, P.O. Box 463, Columbia, MO 65205. Participant in half-day trash pick-up.
- 16) Forestry and Humans: Connecting the Dots, A Biophysical Connection. October 5, 2007. A presentation to the Student Success Center, Arts & Science and Business Advisors Committee of the University of Missouri.
- 17) Impact of Forest Management on the Water Cycle. Summer 2006. A presentation at the meeting of the Pacific Northwest Regional Water Program. A partnership of USDA CSREES & Land Grant Colleges and Universities.
- 18) North Idaho, New Mexico, Mica Creek Experimental Watershed Tour. Oral presentation of research findings to date, and future studies/directions – Mica Creek, Idaho, June 29, 2006.
- 19) Investigating cumulative effects of timber harvest at Mica Creek Experimental Watershed, a multidisciplinary approach. July 7, 2005. On site presentation of current studies to the Association of Natural Resource Professionals (ANREP), Mica Creek Experimental Watershed.

POPULAR PRESS

- 1) Missouri River Fans Foresee a New Day for the Big Muddy. The Kansas City Star, May 9th, 2015. By Keith Myers.

- 2) Getting their Feet Wet: Inaugural Symposium Addresses Water Resources Issues. College of Agriculture, Food and Natural Resources News, April 13th, 2015. By Michelle Hall.
- 3) Water Symposium Focuses on Conservation. Columbia Daily Tribute, Saturday, April 4th, 2015.
- 4) Boone County Commissioner Challenges DNR's Hinkson Findings. Columbia Daily Tribune, Wednesday, February 4, 2015. By Jodie Jackson Jr.
- 5) What is SERA-46?. In: North Central Region Water Network: Extension-Led, Community-Driven Outreach and Education. January 2015 Newsletter.
- 6) Mississippi River Basin Conservation Network. The University of Missouri Center for Watershed Management and Water Quality. *In: Confluence, Conservation News and Ideas in the Mississippi and Ohio River Corridors*, January 2015. By Jason A. Hubbart.
- 7) Water Pollution a Serious Health Threat in Missouri. Columbia Tribune, June 24 2014. By Chris Sheppard.
- 8) MU to Try and Improve Water Quality of Mississippi River. KBIA 91.3, Science and Technology Article, June 10, 2014. By Lina Young.
- 9) Joining the Force. University of Missouri joining the Gulf of Mexico Hypoxia Task Force. CAFNR news, May 30th, 2014. By Madison Knapp.
- 10) Hinkson Creek on 'Rock Salt Affecting Water Sources and Wildlife. KOMU Channel 8 News. Television Interview, April 4th, 2014. Produced by Andie Lowenstein.
- 11) Left Over Road Salt Affecting Water Sources. KOMU Channel 8 News. Television Interview, March 11th, 2014. Produced by Andie Lowenstein.
- 12) Hinkson Creek on 'Impaired Water' List. KOMU Channel 8 News. Television Interview, November 7th, 2013. Produced by Crystall Cho.
- 13) MU plans 6 methods of attack for stormwater runoff. The Columbia Missourian, September 10, 2013. Written by T.J. Thomson.
- 14) Reforestation Seen as Solution for Hinkson Creek. The Columbia Missourian. December 18, 2012. Written by Gwendolyn Girsdansky.
- 15) Letter to the Editor: Response to article by Kristen Powers (April 3, 2012). The University of Missouri. The Maneater, April 10, 2012.
- 16) Calming the Storm (water): Are willows key to restoring flood plains damaged by runoff?. CAFNRnews article, April 9, 2012.
- 17) Restoring Flood Plains, Creating Cash Crop, Growing Biomass are Goals of New MU Study. University of Missouri News Bureau, April 9, 2012. Story by Christian Basi.
- 18) MU Researchers Plant Willow Trees in a Floodplain Management Study. The Columbia Missourian, March 22, 2012. Written by Ratko Radojicic.
- 19) MU Tree Project Might Help Hinkson. Columbia Daily Tribune, March 22, 2012. Written by Janese Silvey.
- 20) MU Researchers to Plant 777 Trees to Begin Study on Storm Water Management: University of Missouri: Media Advisory: MU News Bureau, March 19, 2012, Christian Basi.
- 21) Sierra Club critics slow Hinkson Creek Action. Columbia Daily Tribune, January 31, 2012. Written by Andrew Denney.

- 22) Feature faculty in the September 2011 Forestry Alumni Newsletter. Department of Forestry, University of Missouri, Fall 2011.
- 23) Research on Hinkson Creek Pollution Ongoing. Columbia Daily Tribune, April 26 2011. Written by Jodie Jackson, Jr.
- 24) EPA-ordered Hinkson cleanup off to slow start, Time keeps ticking. Columbia Business Times, April 1, 2011, Columbia, Missouri.
- 25) Stream Measures. In Planning: The monthly publication of the American Planning Association. March 2011, Pp 30-31.
- 26) ABC 17 News This Week with Ryan Tate. MU researcher (Jason Hubbard, Ph.D.) reports on ongoing studies in the watershed and relationship to recent TMDL. Sunday, Channel 17 ABC News, February 27th 2011.
- 27) TMDL's: Improving Stakeholder Acceptance with Science-Based Allocations. Reprinted with permission, in February 2011, Missouri chapter of the American Public Works Association, monthly newsletter, Pp, 4-8.
- 28) MU (University of Missouri) Researchers Test Water Quality in Hinkson Creek. February 17th, 2011. Under the Microscope: National Public Radio (NPR).
- 29) TMDLs: Improving Stakeholder Acceptance with Science-Based Allocations. Missouri Chapter of the American Public Works Association, February 2011.
- 30) Cleaning up Hinkson Creek. February 7th, 2011. National Public Radio (NPR).
- 31) The Columbia Missourian. July 2, 2010. Locally Grown: Managing Stormwater Important for Individuals in the City of Columbia. Article by Michael Burden.
- 32) National Public Radio (NPR), March 26, 2010. Interview pertaining to watershed project in the Hinkson Creek Watershed.
- 33) The Columbia Missourian. September 10, 2009. Quantifying Creek's Quality. Article by Brenden Neville pertaining to water quality research in Hinkson Creek and the City of Columbia.
- 34) Green Horizons Newsletter. October 2009. It's All Connected. Article showcasing Interdisciplinary Hydrology Laboratory Research. Article author, Michelle Hall, MU Center for Agroforestry, 13(4).
- 35) The Forestry Source. July 2009. Missouri Develops BMPs for Biomass Harvesting. Article discussing role of J.A. Hubbard in MO BMP recommendations. Published by the Society of American Foresters.
- 36) MDC Stream Newsletter. Summer 2009. New Research Program in Hinkson Creek Watershed. J.H. Schulz and J.A. Hubbard.
- 37) EPA Awards \$1.7 Million to Improve Midwestern Wetlands. December 4, 2008. Article announcing Federal grant award to J.A. Hubbard. NBC News Washington, Kansas City, Kansas.
- 38) MU researcher receives \$399,995 EPA wetlands grant. December 9, 2008. College of Agriculture, Food and Natural Resources. Research Article by Curt Wohleber, UM.
- 39) Mica Creek, Idaho. The Trust for Public Land, Conserving Land for People (www.tpl.org). Spring 2006 edition. Land and People 18(1):16.
- 40) Mica Creek measures up: "UI was awarded \$13.5 million in grants to expand research in the forests of northern Idaho." Moscow-Pullman Daily News, July 24, 2004.
- 41) Clear-cut cooperation: "Potlatch teams with university scientists for study near Santa; data should help both better understand effects of timber harvest." Moscow-Pullman Daily News, July 24, 2004.

GRANTS

- 08/2016 **Hubbart, J.A.** Technical Director: Appalachian Freshwater Initiative (AFI). Sub-Award in: Gravitational Wave Astronomy and the Appalachian Freshwater Initiative (Waves of the Future: Capacity Building for the Rising Tide of STEM in West Virginia (EPSCoR). National Science Foundation, EPSCoR grant, \$20 Million. AFI Sub-Award \$5.3 Million.
- 09/2015 **Hubbart, J.A.** Investigating Environmental Flows of Mixed-Land-Use Watersheds in Missouri. A Collaborative Adaptive Management Project Funded by the University of Missouri, City of Columbia, and Boone County \$200,000.00 (Shared Credit – 100%).
- 05/2015 **Hubbart, J.A.** National Atmospheric Deposition Program. United States Geological Survey. \$39,938 (Shared Credit – 100%).
- 03/2015 **Hubbart, J.A.** The Missouri Ozark Ameriflux Project. UT-Battelle, Oak Ridge National Laboratory and the U.S. Department of Energy. Annual Subcontract Modification 19, \$113,373 (Shared Credit – 100%)
- 09/2014 **Hubbart, J.A.** Understanding Precipitation Heterogeneity in Mixed-Land-Use Watersheds. *Sub-Award in:* The Missouri Transect: Climate, Plants, and Community. National Science Foundation, EPSCoR grant, \$20 Million. \$317,371.00 (Shared Credit – 100%).
- 07/2014 **Hubbart, J.A.** University of Missouri Stormwater Quality Monitoring Program. Funded by the University of Missouri Campus Facilities, \$26,000.00. (Shared Credit – 100%).
- 06/2014 **Hubbart, J.A.** Combined Flow and Suspended Sediment analyses in Hinkson Creek, Central Missouri, USA. A Collaborative Adaptive Management project, funded by Boone County, the City of Columbia, and the University of Missouri, \$280,358.00 (Shared Credit – 100%).
- 06/2014 **Hubbart, J.A.** The Missouri Ozark Ameriflux Project. UT-Battelle, Oak Ridge National Laboratory and the U.S. Department of Energy. \$160,000 (Shared Credit – 100%)
- 04/2014 **Hubbart, J.A.**, and J. Burken. University of Missouri Academic Affairs, Inter-Campus Course Sharing Grant, \$8000.00. (Shared Credit – 50%)
- 04/2014 **Hubbart, J.A.** College of Agriculture, Food and Natural Resources, CAFNR International Programs International Travel Grant, \$3000.00. (Shared Credit – 100%).
- 03/2014 **Hubbart, J.A.** University of Missouri, Student Fee Capital Improvement Grant: A Utility Task Vehicle for the Baskett Wildlife Recreation and Education Center, \$20,000.00. (Shared Credit – 100%).
- 02/2014 **Hubbart, J.A.** International Research and Teaching Travel Grant. MU School of Natural Resources, Department of Forestry Research Incentive Funding, \$2500.00. (Shared Credit – 100%).
- 01/2014 **Hubbart, J.A.** National Atmospheric Deposition Program (NADP) grant update for monitoring of collection station number M005 and M003, \$7989.00. (Shared Credit – 100%).
- 01/2014 **Hubbart, J.A.** Enhancing Water Security with an MU Interdisciplinary Water Resources Network: The CAFNR Center for Watershed Management and Water Quality. Mizzou Advantage Faculty Development Award, \$1500.00. (Shared Credit – 100%).
- 03/2013 **Hubbart, J.A.** Increase in Water Quality through the Study of Longitudinal Variations in Physical Habitat. A Collaborative Adaptive Management project, funded by Boone County, the City of Columbia, and the University of Missouri, \$66,000. (Shared Credit – 100%).
- 02/2013 **Hubbart, J.A.** University of Missouri Stormwater Quality Monitoring Program. Funded by the University of Missouri Campus Facilities, \$65,604.80. (Shared Credit – 100%).
- 10/2012 McCann, L., B. Broz, B. Allen, **J.A. Hubbart**, S. Anderson, and K. Shannon. Factors Affecting Adoption of Nutrient Management Practices by Farmers and Homeowners. National Integrated Water Quality Program, National Institute of Food and Agriculture (NIFA) Grant, \$414,000. (Shared Credit – 17%).

- 06/2012 Fox, N., **J.A. Hubbard**, A. Thompson, and M. Urban. Linkages Between Rainfall, Runoff and Sediment Transport. Mizzou Advantage Undergraduate Research Team, \$3690. (Shared Credit – 25%).
- 06/2012 Ikem, A., and **J.A. Hubbard**. Groundwater Flux of Nitrogen, Phosphorus and Organic Carbon Concentrations in a Hinkson Creek Floodplain: Geochemistry of Forest and Agricultural Microcosms. United States Department of Agriculture, National Institute of Food and Agriculture, Evans-Allen, \$316,500. (Shared Credit – 50%)
- 04/2012 Stephan, K, and **J.A. Hubbard**. Improving Quantitative Understanding of Urban Forest Carbon Sequestration and Climate Mitigation. USDA, National Institute of Food and Agriculture, McIntire-Stennis. \$140,000 (Shared Credit – 50%)
- 08/2011 He, H., **J.A. Hubbard**, and J. Schulz. A Coupled Predictive Model to Characterize Effects of Urban Sprawl on Water Regimes and Diffuse Pollution in Multi-Use Urban Watersheds, Missouri Department of Conservation, \$103,262. (Shared Credit – 50%)
- 03/2011 Stelzer, H., Kitchen, N., and **Hubbart, J.A.** Sustainability of a Short-Rotation Woody Biofuel System Compared to Grass Biofuel and Grain Cropping Systems, USDA North Central Region, Sustainable Agriculture, Research and Education Grant, \$198,321. (Shared Credit – 33%)
- 03/2010 **Hubbart, J.A.** Quantifying Hydrologic Processes in a Central U.S. Prairie Ecosystem Undergoing Active Restoration. Prairie Fork Conservation Trust, Missouri Department of Conservation, \$20,000. (Shared Credit – 100%)
- 05/2010 Jose, S., F. Aguilar, L. Godsey, M. Gold, **J.A. Hubbard**, D. Larsen, R. Miles, P. Motavalli and R. Udawatta. Developing an Interdisciplinary Online Graduate Program in Agroforestry. University of Missouri, grant to develop on-line courses. \$20,000. (Shared Credit – 9%)
- 04/2010 **Hubbart, J.A.** Quantifying Hydrologic Processes in a Central U.S. Prairie Ecosystem Undergoing Active Restoration. Prairie Fork Conservation Trust, Missouri Department of Conservation, \$25,000. (Shared Credit – 100%)
- 01/2010 **Hubbart, J.A.** In-Stream Sediment Partitioning: Investigating Diffuse Overland and Hydrogeomorphological Erosion Contributions to Suspended Sediment and Water Quality. Agricultural Research Service, University of Missouri School of Natural Resources, Center for Agroforestry, and Agricultural Research Service, \$47,695. (Shared Credit – 100%)
- 08/2009 **Hubbart, J.A.** Characterizing Floodplain Hydrogeomorphology of an Urban Stream in Support of Restoration of Bottomland Hardwood Forests. United States Environmental Protection Agency, Wetland Program Development Grant, Project Number: EPA-R7-WWPD-09-002, \$319,911. (Shared Credit – 100%)
- 08/2009 Muzika, R-M., F. Aguilar, **J.A. Hubbard**, D. Larson, B. Cutter, R. Guyette, H.E. Stelzer, and C-H. Lin. Integrating Disciplinary Diversity in Graduate Students for Forest Resource Management Decision Support. 2009 CSREES, U.S. Department of Agriculture, Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowships Grants Program, \$245,000. (Shared Credit – 12.5%)
- 06/2009 Motavalli, P., **J.A. Hubbard**, P. Guinan, J. Jones, K. Goyne, C. Tanner, R. Obernuefemann, E. Tewes, T. Stokely. Innovative Methods to Enhance Student Experiential Learning on Water Quality Monitoring in a Campus Environment. Water Quality: University of Missouri, Interdisciplinary Innovation Grant, \$25,000. (Shared Credit – 25%)
- 07/2009 **Hubbart, J.A.** and J. Schulz. Hinkson Creek Watershed: Understanding Hydrologic Processes and Diffuse Nutrients in a Large Multi-Use Urban Watershed. Missouri

- Department of Conservation, Community Conservation Initiative Grant, \$459,316. (Shared Credit – 100%)
- 04/2009 **Hubbart, J.A.** Quantifying Hydrologic Processes in a Central U.S. Prairie Ecosystem Undergoing Active Restoration, Prairie Fork Conservation Trust, Missouri Department of Conservation, \$21,600. (Shared Credit – 100%)
- 01/2009 **Hubbart, J.A.** Quantifying Hydrologic Processes in a Central U.S. Prairie Ecosystem Undergoing Active Restoration, Prairie Fork Conservation Area, Missouri Department of Conservation, \$14,000. (Shared Credit – 100%)
- 08/2008 **Hubbart, J.A.** Evaluating the Role of Riparian Buffers in Modulating Stream Temperature and Nutrient Fluctuation. United States Environmental Protection Agency, Wetland Program Development Grant, Project Number: EPA-R7-WWPD-08-004, \$560,000. (Shared Credit – 100%)
- 06/2008 **Hubbart, J.A.** Hinkson Creek Watershed: Monitoring Hydrology and Diffuse Pollution in an Urban Environment. Missouri Department of Natural Resources, Project Number: G08-NPS-17, \$634,000. (Shared Credit – 100%)
- 04/2008 **Hubbart, J.A.** The Impact of Cold Air Drainage on Hydrologic Processes in Central Missouri. Richard Wallace Research Incentive Grant Award, \$3,956. (Shared Credit – 100%)
- 04/2008 **Hubbart, J.A.** University of Missouri, School of Natural Resources mini-grant for development of distance education courses, \$5,000. (Shared Credit – 100%)
- 03/2008 **Hubbart, J.A.** Quantifying Hydrologic Processes in a Central U.S. Prairie Ecosystem Undergoing Active Restoration, Missouri Department of Conservation, \$12,950. (Shared Credit – 100%)
- 03/2008 **Hubbart, J.A.** Forest Hydrology Field Studies (Forestry 2540), Department of Forestry Field Instruction Instrument Grant, \$24,000. (Shared Credit – 100%)
- 11/2007 **Hubbart, J.A.** University of Missouri Ag Alumni Association, Alumni Board of Directors, grant, \$500. (Shared Credit – 100%)

POST-DOCTORAL AND GRADUATE STUDENT ADVISING

Current Post-Doctoral Associates

- 1) Ramsey E. Kellner, Ph.D., Combined Flow and Suspended Sediment analyses in Hinkson Creek, Central Missouri, USA. Fully funded position: January 2016 – December 2019.

Current Graduate Students

- 1) Sean Zeiger, Ph.D., Water Resources. Measuring and Modeling Nutrients and Suspended Sediment Loading in a Multi-Use Watershed of the Central USA. Matriculated August 2014, anticipated graduation July 2016.
- 2) Michael Sunde, Ph.D., Forestry. Effects of Urbanization on Runoff and Water Quality in a Multi-Use Urban Watershed. Co-Advised with Dr. Hong He. Matriculated January 2012, anticipated graduation, December 2016.
- 3) Soumaila Gadji, M.S., Water Resources. Measuring and Modeling Suspended Sediment Concentration in the Developed Environment. Matriculated August 2014, anticipated graduation, July 2017.

- 4) Evan Kutta, Ph.D., Atmospheric Sciences. General Circulation Statistics Using Two Reanalysis Datasets. Matriculated August 2015, anticipated graduation, May 2017.

Former Graduate Students (Advisor)

- 1) Elizabeth Spiegel, M.S., Natural Resources, Water Resources. Estimating Above and Below Ground Vegetation Biomass and Carbon Storage across an Intra-Urban Land-Use Gradient in Mid-Missouri. Matriculated August 2014, graduation December 2015.
- 2) Katlin Beaven. M.S., Natural Resources, Forestry. Thesis: Investigating Soil Carbon, Nitrogen, and Respiration across an Intra-Urban Gradient in Mid-Missouri. Matriculated January 2014, graduation December 2015.
- 3) Gregory Hosmer. M.S., Natural Resources, Water Resources. Reconstructing Prairie/Savanna in the Ozark Border Natural Division of Missouri, United States. Matriculated January 2014, graduation December 2015.
- 4) Ramsey E. Kellner, Ph.D., Water Resources. The Long-Term Impacts of Forest Removal on Floodplain Subsurface Hydrology. Matriculated August 2013, graduation December 2015.
- 5) Lynne Hooper, M.S., Natural Resources, Water Resources. A Stream Physical Habitat Assessment in an Urbanizing Watershed of the Central U.S.A. Matriculated January 2013, graduation July 2015.
- 6) Mathew A. Struckhoff, M.S., Natural Resources, Forestry Emphasis. The Land Capability Potential Index: A Decision Support Tool for the Management of Missouri River Floodplain Habitat. Matriculated January 2010, graduation, May 2015.
- 7) Sean Zeiger, M.S. Natural Resources, Forestry Emphasis. Investigating Water and Air Temperature Relationships in a Multi-Use Urbanizing Watershed of the Central U.S. Matriculated August 2011, graduation, May 2013.
- 8) Evan Kutta, M.S. Natural Resources, Water Resources Emphasis. Quantifying Microclimate Heterogeneity within a Contemporary Plant Growth Facility. Matriculated May, 2012, graduation December 2013.
- 9) Keith Brown, M.S. Natural Resources, Water Resources Emphasis. Quantifying Bottomland Hardwood Forest and Agricultural Grassland Evapotranspiration in Floodplain Reaches of a Mid Missouri Stream. Matriculated May 2011, graduation, December 2013.
- 10) Ramsey E. Kellner, M.S. Forestry. Quantifying Urban Stormwater Suspended Sediment Particle Size Class Distribution in the Central U.S. Matriculated January 2012, graduation May 2013.
- 11) Pennan Chinnasamy, Ph.D. Student Forestry. Quantifying HydroBiogeochemical Flux between an Intermittent Mid-Missouri Stream and a Forested Wetland/Floodplain. Matriculated August 2009, graduation December 2012.
- 12) John R. Nichols, M.S. Forestry. Land Use Impacts on Aquatic Invertebrate Assemblages in a Dynamic Urbanizing Watershed of the Central U.S. Matriculated January 2011, graduation, December 2012.
- 13) Dandan Huang, M.S., Forestry. Quantifying Floodplain Stream Bank Erosion and Deposition Rates in a Central U.S. Urban Watershed. Graduated May 2012. Recipient: 2011 University of Missouri, Graduate Student of the Year Award.
- 14) Chris C. Zell, M.A., Natural Resources. Land-Use Effects on Water Resources and Water Quality in an Urbanizing Watershed of the Mid-West. Graduated May 2012.
- 15) Edward A. Bulliner, M.S., Forestry. Advisor. University of Missouri. Quantifying Riparian Canopy

Energy Attenuation and Stream Temperature Using an Energy Balance Approach. Graduated, May 2011. Recipient: 2010 AGU Outstanding Student Paper Award.

- 16) Dan P. Scollan, M.S., Forestry, University of Forestry. A Multi-Configuration Evaluation of the Soil and Water Assessment Tool (SWAT) in a Mixed-Use Watershed in the Central U.S.A. Graduated, May 2011.
- 17) Graham W. Freeman, M.S., Forestry, University of Missouri. Quantifying Suspended Sediment Loading in a Mid-Missouri Urban Watershed Using Laser Particle Diffraction. Graduated, May 2011.
- 18) Thomas A. Smith, M.S. Soils, Environmental and Atmospheric Sciences, University of Missouri. Evaluation of Development Impacts in Urban Environments and Improving Practices through Community Understanding. Graduated, May 2011.

GRADUATE STUDENT COMMITTEES

Current Graduate Student Committees

- 1) Micheal Simpson, Ph.D., Water Resources. Improving Quantitative Estimates of Precipitation Heterogeneity using Doppler Radar in Mixed-Land-Use Watersheds. Matriculated January 2015, anticipated graduation May 2018.

Current Laboratory Technicians

None at this time

Undergraduate Advisement

None at this time

PROFESSIONAL DEVELOPMENT

- 1) West Virginia University Advance Advocates Equity and Diversity Luncheon: WVU Erickson Alumni Center Ruby Grand Hall, February 23rd, 2016.
- 2) West Virginia State Auditor's Office Purchasing Card and Purchasing Ethics Training, January 5th, 2016.
- 3) University of Missouri, National Science Foundation, EpSCOR "all hands" meeting, February 27th, 2015.
- 4) University of Missouri, Online training courses: Harassment: What It Is and How to Stop It. December 10, 2014. Supported by MU Human Resources.
- 5) University of Missouri, Online training courses: Harassment: Mandated Reporter Training. December 10, 2014. Supported by MU Human Resources.
- 6) University of Missouri, Online Information Security Training Modules; 1) You are the target, 2) Social Engineering, 3) Email and Instant Messaging, and Mobile Devices. August 12, 2014. Supported by MU Campus Information Security.
- 7) College of Agriculture, Food and Natural Resources (CAFNR). Obtained funding and organized three Center for Watershed Management and Water Quality meetings in 2014 (3-28, 4-24, 9-16). Supported financially by Mizzou Advantage and CAFNR.

- 8) Water and Society Group. University of Missouri campus organization to improve scientific conveyance to the general public, 2013, 2014.
- 9) Civility, You, and Mizzou. Online Learning Module. Certified module completion, June 17, 2013 by the Chancellor's Diversity Initiative and Show Me Respect Campaign, University of Missouri.
- 10) Celebration of Teaching, University of Missouri Annual Conference on Teaching, May 2013.
- 11) The World Awaits: Fulbright Opportunities for MU Faculty. Tuesday, April 23, 2013. Application process training.
- 12) 2013 – Fellow: College of Agriculture, Food and Natural Resources (CAFNR) Communications Fellowship Program.
- 13) Celebration of Teaching, University of Missouri Annual Conference on Teaching, May 2012.
- 14) Celebration of Teaching, University of Missouri Annual Conference on Teaching, May 15-16th, 2011.
- 15) College of Agriculture, Food and Natural Resources (CAFNR) Promotion and Tenure Workshop, May 8, 2012. Christopher S. Bond Life Sciences Center, University of Missouri.
- 16) University of Missouri, Celebration of Teaching. Preconference workshop: eLearning Compass: The present and future of eLearning at Mizzou, May 15, 2012.
- 17) People Soft Training. College of Agriculture Food and Natural Resources, Time and Labor training using Oracle, Approvers training, August 5, 2011.
- 18) People Soft Training. College of Agriculture Food and Natural Resources, Time and Labor training using Oracle, Travelers training, August 1, 2011.
- 19) FERPA: Your Friend or Foe. FERPA training in the College of Agriculture Food and Natural Resources (CAFNR), June 3, 2011.
- 20) Preconference Workshop – Creativity in the Classroom, Celebration of Teaching Excellence, University of Missouri, Reynolds Alumni Center & Cornell Hall, May 17th, 2011.
- 21) Celebration of Teaching Excellence, University of Missouri, Reynolds Alumni Center & Cornell Hall May 17-18th, 2011.
- 22) College of Agriculture, Food and Natural Resources (CAFNR) Promotion and Tenure Workshop, May 16, 2011. Anheuser Busch Natural Resources Building.
- 23) Promotion & Tenure Workshops, Sponsored by the Office of the Provost, University of Missouri, Jesse Wrench Auditorium, May 4th, 2011.
- 24) Geosyntec Consultants, Stormwater Management Workshop and Roundtable. September 20, 2010. Principles of effective stormwater management and planning, Columbia, MO.
- 25) 2010 Educational Technologies at Missouri, Technology Conference. April 13-14, 2010. Columbia, MO.
- 26) University of Missouri, Campus Writing Program. April 2010. Lunch with the veterans, an opportunity to meet and train with veteran Writing Intensive faculty, for those attending workshops in 2009 and 2010. University of Missouri, Columbia, MO.
- 27) University of Missouri Environmental Health and Safety, Chemical Management for Working with Chemicals. January 25, 2010, Columbia, MO.
- 28) Mizzou Advance Partnerships for Adaptation, Implementation, and Dissemination: Gender Equity in STEM (Science, Technology, Engineering, Math) at the University of Missouri, Columbia. October

- 27, 2009. A Knock at the Door, An Interactive Theatre Project Funded by NSF Advance, Training for current and future CAFNR Search Committee Members.
- 29) Mizzou Advance Partnerships for Adaptation, Implementation, and Dissemination: Gender Equity in STEM at the University of Missouri, Columbia. March 3, 2009.
- 30) CAFNR Teaching Symposium, January 15, 2009. University of Missouri, Columbia, MO.
- 31) New Faculty Teaching Scholars Program (NFTS). 2008-2009. University of Missouri program dedicated to promoting the success of new faculty. University of Missouri, Columbia, MO.
- 32) Campus Writing Programs 45th Faculty Workshop. August 19-20, 2008. Sponsored by the University of Missouri, Campus Writing Program. University of Missouri, Columbia, MO.
- 33) Grantsmanship Workshop. February 19, 2008. Grant Proposal Peer Review, University of Missouri new faculty training series in grantmanship. University of Missouri, Columbia, MO.
- 34) Grantsmanship Workshop. March 4, 2008. Preparing an NSF Early Career Grant. University of Missouri new faculty training series in grantmanship. University of Missouri, Columbia, MO.
- 35) Grantsmanship Workshop. February 19, 2008. Proposal Processing and Grant Related Resources, University of Missouri new faculty training series in grantmanship. University of Missouri, Columbia, MO.
- 36) College of Agriculture Food and Natural Resources (CAFNR) Teaching Excellence Fall Workshop. August 7, 2007. Reynolds Alumni Center, University of Missouri, Columbia Missouri, MO.

PROFESSIONAL SERVICEWest Virginia University

01/2016 – Director Institute of Water Security and Science.

West Virginia*National*

10/2014 – Present Member of the Southeastern Regional Association (SERA-46) Land Grant University (LGI) Gulf Hypoxia Multistate Regional Committee.

International

06/2015 Invited Opponent for Ph.D. Dissertation defense at the Swedish University of Agricultural Sciences, Umeå, Department of Forest Ecology and Management. May 29th, 2015.

Editorial Positions

01/2009 – Present Associate Editor: The Encyclopedia of Earth

08/2015 – Present Editorial Board Member: Sustainable Water Resources Management. Springer, Springer Science and Business Media Publishers.

Journal Article and Grant Proposal Reviewer

Journal of Hydrology; Bioscience, Weather, Climate, and Society; Earth Interactions; Journal of Hydrologic Engineering; Environmental Earth Sciences; Water Resources Management; Atmospheric and Ocean Technology; Hydrological Processes; Sustainable Water Resources Management; Water Resources Management; The American Society of Agricultural and Biological Engineers; Agroforestry Systems; Journal of Sustainable Watershed Science and Management; John Wiley &

Sons, Publishers; The Journal of the American Water Resources Association; Ecohydrology; The Journal of Mountain Research and Development; Boreal Environment Research. Bentham Open Access Journals; Forest Science; The National Science Foundation; The Rustaveli (Georgian) National Science Foundation; Earthwatch Foundation.

Dossier External Evaluator/Reviewer

12/2014 West Virginia University: Research Dossier Peer Evaluation
5/2014 University of Missouri, School of Natural Resources, Peer Teaching Evaluation.

PROFESSIONAL AFFILIATIONS

2011 – Present United Nations Educational, Scientific and Cultural Organization (UNESCO)
2006 – 2014 The American Water Resources Association
2006 – Present The International Association of Hydrological Sciences
2005 – Present The Society of American Foresters
2003 – Present The American Geophysical Union
1999 – Present The Ecological Society of America