

CURRICULUM VITAE

University of Idaho

NAME: Link, Timothy E.

DATE: January 11, 2015

RANK OR TITLE: Professor

DEPARTMENT: Forest, Rangeland, and Fire Sciences

OFFICE LOCATION AND CAMPUS ZIP: CNR 203B, 1133

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DATE OF FIRST EMPLOYMENT AT UI: November 26, 2001

DATE OF TENURE: February 10, 2007

DATE OF PRESENT RANK OR TITLE: July 1, 2013

EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Ph.D., Oregon State University, Corvallis, Oregon, 2001, Environmental Sciences/Water Resources

M.S., Oregon State University, Corvallis, Oregon, 1998, Geology

B.A., Hampshire College, Amherst, Massachusetts, 1991, Geology

EXPERIENCE:

Teaching, Extension and Research Appointments:

Professor of Forest Hydrology, Department of Forest, Rangeland, and Fire Sciences, University of Idaho, Moscow, Idaho, 2013-present

Associate Professor of Forest Hydrology, Department of Forest, Rangeland, and Fire Sciences, University of Idaho, Moscow, Idaho, 2007-2013.

Assistant Professor of Forest Hydrology, Department of Forest Resources, University of Idaho, Moscow, Idaho, 2001-2007.

Adjunct Faculty, Department of Civil Engineering, University of Idaho, 2003-present.

Adjunct Faculty, Department of Rangeland Ecology and Management, University of Idaho, 2003-present.

Courtesy Faculty, Department of Forest Science, Oregon State University, Corvallis, Oregon, 2002-present.

Graduate Research/Teaching Assistant, Oregon State University, Corvallis, Oregon, 1995-2001.

Consulting:

Corrie Yuckulic Law. Expert Witness. 2015.

Third World Center for Water Resource Management, Mexico City, Mexico, 2000-01.

Staff Geochemist, PTI Environmental Services, Boulder, Colorado, 1991-95.

TEACHING ACCOMPLISHMENTS:

Areas of Specialization:

Snow hydrology, Interactions of vegetation and hydrologic processes, Interactions of fire and hydrology, Microclimatology of riparian systems

Courses Taught:

RGSC 618 – New Mexico State Univ., Interdisciplinary Modeling: Water-Related Issues and Changing Climate, with L. Saito and A. Fernald, 3 cr., Summer 2012

FOR 501 – Cross-Disciplinary Research Seminar, 1 cr., Spring 2012

FOR 462 – Watershed Science & Management, 3 cr., Fall 2003, 2004, 2006-2012, 2014
Courses Taught (cont.):

WR 501 – Water Resource Seminar, 1 cr. Fall 2010 – 2012
 FOR 504 – Streamflow Generation Processes, 1 cr., Spring 2011
 NRES 730 – Univ. NV-Reno, Interdisciplinary Modeling: Water-Related Issues and Changing Climate, with L. Saito and A. Fernald, 3 cr., Summer 2010
 FOR 516 – Current Literature on the Hydrologic Effects of Forest Management, 1 cr., Spring 2009, 2011
 FOR 515 – Physical Hydrology, 3 cr., Fall 2005, 2007, 2009, 2011, 2015
 FOR 463 – Hydrologic Measurement Techniques, 1 cr., Fall 2003-2006, 2009-2010
 WR 504 – Interdisciplinary Water Resources Projects, 3 cr, Spring 2009
 WR 504 – Water, Salmon, and Society Field Course, 2 cr., Fall 2008
 FOR 462 – Watershed Science & Management (**online**), 3 cr., Fall 2004-2008
 FOR 504 – Snow-Vegetation Interactions, 1 cr., Spring 2008
 FOR 504 – IGERT Immersion Course (as co-instructor), 1 cr. field course, (Summer 2010 & 2011)
 FOR 504 – Cumulative Watershed Processes 1 cr., Spring 2007
 FOR 504 – Advanced Watershed Science & Management, 3 cr., Fall 2004
 FOR 504 – Hydrologic Effects of Forest Management, 1 cr., Spring 2004
 FOR 504 – Physical Hydrology, 3 cr., Fall 2003
 FOR 404 – Fundamental Hydrologic Measurement Techniques, 1 cr., Fall 2002
 FOR 462 – Watershed Management, 2 cr., Spring & Fall 2002
 FOR 504 – Forest Hydrology, 3 cr., Fall 2002
 FOR 404 – Hydrologic Measurement Techniques, 1 cr., Fall 2002

Students Advised:

Graduate Students Advised to Completion of Degree, Major Professor:

Sage Bryden, M. S., Water Resources, November 2013
 Wade Tinkham, Ph. D., Natural Resources, May 2013 (Co-advised with Dr. Alistair Smith)
 Andy Knight, M. S., Environmental Sciences, May 2012
 Enhao Du, Ph.D., Environmental Sciences, October 2010
 Diana Carson, M.S., Forest Resources, September 2010
 Hongyu Huang, M.S., Forest Resources, August 2010 (Co-advised with Dr. Alistair Smith)
 Joel Clark, M.S., Forest Resources, June 2010
 Eric Herchmer, M.S., Forest Resources, May 2010
 Robert Lawler, M.S., Forest Resources, February 2010.
 Michele Reba, Ph.D., Civil Engineering, December 2008
 Jason Hubbard, Ph.D., Natural Resources, June 2007
 Gary Chauvin, M.S. Environmental Sciences, December 2006
 Andrew Warnsing, M.S., Forest Resources, August 2006
 Ashley Covert, M.S. Forest Resources, December 2003

Graduate Students in Progress, Major Professor:

John Gravelle, Ph. D., Environmental Sciences
 P. Zion Klos, Ph. D., Environmental Sciences
 Ryan Niemeyer, Ph. D., Water Resources

Graduate Students Advised to Completion of Degree, Committee Member:

Hallie Rajkovich, M. S., Water Resources, May 2014
 Abigail Lute, M. S., Water Resources, May 2014
 Mariana Dobre, Ph. D., Biosystems Engineering, Washington State University, July 2013
 Joshua Hail, M. S., Landscape Architecture, May 2013
 Ryan Toohey, Ph.D., Environmental Sciences, July 2012
 Jaelyn Hancock, M.S., Water Resources, April 2012
 Chet Hagen, M.S., Water Resources, May 2011

Shaniko Nichol-Driskill, M. S., Natural Resources, April 2011

Graduate Students Advised to Completion of Degree, Committee Member (cont.):

Chris Welcker, Ph.D., Civil Engineering, April 2011
 Peter Gäg, M.S., Forest Resources, May 2009
 Joey Machala, M.S., Water Resources, May 2009
 Aaren Fiedler, M.S. Hydrology, March 2009
 Mike Falkowski, Ph.D., Natural Resources, June 2008
 Robert Pangle, Ph.D., Natural Resources, May 2008
 Chad Opatz, M.S., Hydrology, October 2007
 Anne-Marie Casey, M.S., Environmental Sciences, April 2006
 Lynne Westerfield, M.S., Conservation Social Sciences, March 2006
 Huei-Jin Wang, M.S., Forest Resources, February 2006
 Katherine Lanspery, M.S., Rangeland Ecology and Management, November 2005
 Michael Atchison, M.S., Environmental Sciences, April 2005
 Tom Pypker, Ph.D., Forest Science (Oregon State University), December 2004
 Erin Chamberlain, M.S., Environmental Sciences, September 2004
 Wendy Joslin, M.S., Forest Resources, May 2004
 James Heffner, M.S., Geology, April 2004

Graduate Students in Progress, Committee Member:

Kristen Welsh Unwala, Ph. D., Water Resources
 Alex Suazo, Ph. D., Natural Resources
 Brandon Moore, Ph. D., Geography
 Amanda Bentley, Ph. D., Environmental Sciences
 Travis Cowles, Ph. D., Geography
 Mark Corrao, Ph. D., Water Resources
 Benjamin Soderquist, M. S., Natural Resources

Dissertation External Examiner:

Sandra N. Dharmadi Hawthorne, Ph.D. Department of Forest and Ecosystem Science,
 University of Melbourne, Australia, Spring 2012.
 William Floyd, Ph.D., University of British Columbia, Canada, 2012

Courses Developed:

FOR462 Watershed Science & Management
 FOR463 Hydrologic Measurement Techniques
 FOR504 Forest Hydrology
 FOR504 Advanced Watershed Science & Management
 FOR504 Snow-Vegetation Interactions
 FOR504 Cumulative Watershed Processes
 FOR504 Streamflow Generation Processes
 FOR515 Physical Hydrology
 FOR516 Hydrologic Effects of Forest Management
 WR504 Water, Salmon, and Society

Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:

Invited Seminars:

Plenary Speaker. 14th Annual Forester's Forum. "The Mica Creek Paired Watershed Study: A Critical Update of Old Science". February 4, 2015. ~100 attendees.

Interdisciplinary Research in Natural Resources & Environmental Sciences. Dept. of Department of Forest, Rangeland, and Fire Sciences Seminar Series. December 10, 2014.

Snowmelt processes in forests: Apparent paradoxes and implications for advancing hydrologic understanding in complex terrain. Consortium of Universities for the Advancement of

Hydrological Sciences Inc. (CUAHSI) Cyberseminar Series. February 21, 2014.
(cancelled due to family illness)

Invited Seminars (cont.):

The effect of contemporary forest practices in the inland Pacific Northwest: A study of streamflow, sediment, temperature, nutrients, aquatic macroinvertebrates, and fish. University of Idaho Environmental Science Seminar Series. February 15, 2012.

Snowmelt processes in discontinuous forests: Apparent paradoxes and implications for advancing hydrologic understanding in complex terrain. University of Idaho Soil and Water Science Seminar Series. February 8, 2012.

Grasslands of Inner Mongolia. University of Idaho Global Rangelands Seminar Series. October 12, 2011.

Snowmelt processes in discontinuous forests: Apparent paradoxes and implications for advancing hydrologic understanding in complex terrain. Invited seminar for UC Merced School of Engineering, Environmental Systems Seminar series, September 21, 2011.

Snowmelt processes in discontinuous forests: Apparent paradoxes and interdisciplinary opportunities. Invited seminar for Malcolm M. Renfrew Interdisciplinary Colloquium, April 17, 2011.

Climate change and hydrology: The western north American perspective. Guest lecture for University of Idaho Environmental Science Capstone Seminar, March 30, 2011.

Effectiveness assessment of best management practices for forestry in the inland Pacific Northwest. UI Water Resources Seminar Series, September 14, 2010.

How have the effects of forest management changed over the past century?: An effectiveness assessment of best management practices for forestry in the inland Pacific Northwest. Invited seminar for Washington State University School of Earth & Environmental Sciences Seminar Series, January 26, 2010.

Trends and variability of water resources in the western U. S.: An indication of future conditions? Invited seminar and panel member. UI Sustainability Center 350 Group Day of Action on Climate Change Teach-in. Nov. 4, 2009.

Historical trends and variability of snowpack and streamflows in Idaho: An indication of future conditions? Invited seminar for the Departments of Forest Resources and Geography seminar series. Sep. 14, 2007.

Solving the catchment water and energy balance in snow dominated regions. Invited seminar for the Institute for Landscape Ecology, University of Giessen, Germany. Feb. 28, 2007.

Findings from the Mica Creek test of the Idaho forest practices rules. T. E. Link, T. Cundy, J. Gravelle, J. Hubbard, D. Karwan, and J. Broglio. Lecture for the National Council for Air and Stream Improvement (NCASI), West Coast Regional Meeting, Portland, OR., Sep. 28, 2006. ~60 industry, agency and academic attendees.

New approaches for monitoring rainfall and radiation in forests. Invited seminar for the Friends of Forest Hydrology, British Columbia – Emerging Watershed Monitoring Techniques Conference. Campbell River, British Columbia. September 20-21, 2006. ~30 industry and agency personnel.

Forest hydrology: A crash course. Seminar for the Coeur d'Alene Forest Coalition. 12

participants from industry, agencies, community and conservation groups. Coeur d'Alene, ID, Aug. 16, 2006.

Invited Seminars (cont.):

A synthesis of work assessing the cumulative effects of contemporary timber harvest practices in the Mica Creek Experimental Watershed. The 23rd Inland Empire Forest Engineering Conference. March 7-8, 2006. Moscow, Idaho.

Cumulative effects of contemporary timber harvest practices in a continental/maritime mountainous watershed: A synthesis of results from the Mica Creek Study. Seminar for Potlatch Corporation annual corporate meeting, Clarkston, WA, January 20, 2006.

Assessing the impacts of canopy structure on hydrologic processes. Fire, Water and People Seminar Series, Moscow, ID, November 2004.

Assessing the cumulative effects of current forest management practices on water flow and quality, University of Idaho, Department of Fisheries & Wildlife Seminar Series, Moscow, ID, October 2004.

Investigating the Interactions of Vegetation and Topography on Hydrologic Processes, University of Idaho – Boise, Ecohydraulics Research Group and University of Concepcion - Chile delegation, October 2004.

Analyzing the effects of modern forest harvest practices. Presentation to the Moscow Rotary Club. Moscow, ID, September 20, 2004.

Impact of forest treatments and climate change on hydrologic regimes, USDA Cooperative State Research Education and Extension Service Headquarters, Washington D. C., September, 2004.

Assessing the impacts of current forest management practices on water flow and quality, University of Idaho, Soil and Water Quality Seminar Series, Moscow, ID, February 2004.

Assessing the cumulative effects of forest management, University of Idaho, Department of Forest Products Seminar Series, Moscow, ID, February 2004.

Measurement and modeling of hydrologic processes in an old-growth seasonal temperate rainforest, University of Reading (United Kingdom), Environmental Systems Science Centre Seminar Series, May 2003.

Interactions of terrain and vegetation on snowmelt runoff patterns in semi-arid rangelands, University of Idaho, Department of Rangeland Resources Seminar Series, Moscow, ID, February 2003.

The sensitivity of snowmelt processes to climate and forest cover during rain-on-snow events. University of Idaho, Department of Forest Resources Seminar Series, Moscow, ID, March 2002.

Recent modeling advances in forest and snow hydrology. USFS District Office, Nez Perce National Forest, Grangeville, ID, January 2002,

Measurement and modeling of water and energy fluxes in a seasonal temperate rainforest. Portland State University, Environmental Sciences and Resources Program Seminar Series, Portland, OR, April 2001.

Seasonal snowcover dynamics in the boreal forest. USDA-ARS Northwest Watershed Research Center, Boise, ID, June 1999.

Guest Lectures:

Snowmelt Processes in Discontinuous Forests: Apparent paradoxes and implications for advancing hydrologic understanding in complex terrain. Guest lecture for ISEM 301: Water in Society, February 26, 2015.

Water, Culture, Power, and the Challenge of Climate Change. Guest lecture for ISEM 101: Water, Culture, and Power, October 24, 2014.

Hydrology 501: A crash course. Guest lectures and assignment for WR506: Integrated Water Resources, September 8, 2014.

Hydrology 501: A crash course. Guest lecture and assignment for WR506: Integrated Water Resources, October 18, 2012.

Forest and snow hydrology in the northern Rocky Mountains. Guest lecture for LA 520/LARC 559: Northern Rocky Mountain Regional Landscapes (Washington State University). February 2, 2012.

Hydrology 501: A crash course. Guest lecture for WR506: Integrated Water Resources, October 18, 2011.

Forest and snow hydrology in the northern Rocky Mountains. Guest lecture for LA 520/LARC 559: Northern Rocky Mountain Regional Landscapes (Washington State University). January 25, 2011.

Hydrometeorological measurements for watershed science and management. Guest lecture for FOR274: Forest Measurements, November 2010.

Hydrology 501: A crash course. Guest lecture for WR506: Integrated Water Resources, October 14, 2010.

Snow hydrology fundamentals. Guest lecture. CE325 Engineering Hydrology, October 2005.

SCHOLARSHIP ACCOMPLISHMENTS:

Refereed/Adjudicated:

* denotes graduate student author

† denotes undergraduate student author

Klos, P. Z.* , J. Abatzoglou, J. Blades*, M. A. Clark*, M. Dodd*, T. E. Hall, A. Haruch*, P. E. Higuera, J. D. Holbrook*, V. S. Jansen*, K. Kemp*, A. Lankford*, A. Lamar*, T. E. Link, T. Magney*, A. J. H. Meddens, L. Mitchell*, B. Moore*, P. Morgan, B. A. Newingham, R. Niemeyer*, B. Soderquist*, A. A. Suazo*, K. T. Vierling, V. Walden, C. Walsh*. (accepted pending minor revisions) Indicators of climate change in Idaho: The intersection of biophysical change with social perception across a diverse landscape. *Weather, Climate, and Society*.

Musselman, K. N., J. W. Pomeroy, and T. E. Link. (in press). Variability in shortwave irradiance caused by forest gaps: Measurements, modelling, and implications for snow energetics. *Agricultural and Forest Meteorology*.

Hubbart, J. A.* , T. E. Link, and J. A. Gravelle*. (in press). Forest canopy reduction and snowpack dynamics in a northern Idaho watershed in the continental-maritime region, United States.

Forest Science. DOI: 10.5849/forsci.14-025.

- Klos, P. Z.* , A. Chain-Guadarrama* , T. E. Link, B. Finegan, L. A. Vierling, and R. Chazdon. 2014. Throughfall heterogeneity in tropical forested landscapes as a focal mechanism for deep percolation. *Journal of Hydrology*. v. 519, 2180-2188. DOI: 10.1016/j.jhydrol.2014.10.004.
- Klos, P. Z.* , T. E. Link, and J. Abatzoglou. 2014. Extent of the rain-snow transition zone in the western U.S. under historic and projected climate. *Geophysical Research Letters*. v. 41(13), 4560-4568. DOI: 10.1002/2014GL060500.
- Tinkham, W. T.* , Smith, A. M. S., Marshall, H-P., Link, T. E., Falkowski, M. J. and Winstral, A. H. 2014. Quantifying spatial distribution of snow depth errors from LiDAR using random forest. *Remote Sensing of the Environment*. v. 141, 105-115. DOI:10.1016/j.rse.2013.10.021.s
- Du, E.* , T. E. Link, J. A. Gravelle* , and J. A. Hubbart* . 2013. Validation and sensitivity of the Distributed Hydrology Soil-Vegetation Model (DHSVM) in a forested mountain watershed. published online. *Hydrological Processes*. DOI: 10.1002/hyp.10110.
- Saito, L., T. E. Link, A. Fernald, and L. Kohne. 2013. Lessons learned from teaching an inter-institutional graduate course on interdisciplinary modeling for water-related issues and changing climate. *Journal of Contemporary Water Resources Education*. v. 152, 4-13.

Refereed/Adjudicated (cont.):

- Heinse, R. and T. E. Link. 2013. Vadose zone processes: a compendium of and case study for teaching interdisciplinary modeling. *Journal of Contemporary Water Resources Education*. v. 152, 22-31.
- Seyednasrollah, B.* , M. Kumar, and T. E. Link. 2013. On the role of tree density on net radiation on the forest floor. *Journal of Geophysical Research: Atmospheres*. v. 118 n. 15, 8359-8374. DOI:10.1002/jgrd.50575.
- Tinkham, W. T.* , C. M. Hoffman, M. J. Falkowski, A. M. S. Smith, H-P. Marshall, and T. E. Link. 2013. A methodology to characterize vertical accuracies in LiDAR-derived products at landscape scales. *Photogrammetric Engineering & Remote Sensing*. v. 79, n. 8, 709-716.
- Wei, L.* , J. D. Marshall, T. E. Link, K. L. Kavanagh, E. Du, R. E. Pangle, P. J. Gäg, and N. Ubierna. 2013. Constraining 3-PG with a new $\delta^{13}\text{C}$ sub-model: a test using the $\delta^{13}\text{C}$ of tree rings. v. 37, 82-100. *Plant, Cell, and Environment*. DOI: 10.1111/pce.12133
- Ellis, C. R.* , J. W. Pomeroy, and T. E. Link. 2013. Modeling increases in snowmelt yield and desynchronization resulting from forest gap-thinning treatments in a northern mountain headwater basin. *Water Resources Research*. v. 49, 1-14, DOI :10.1002/wrcr.20089. *WRR featured article*.
- Meromy, L.* , N. P. Molotch, T. E. Link, S. R. Fassnacht, and R. Rice. 2013. Subgrid variability of snow water equivalent at operational snow stations in the western USA. *Hydrological Processes*. v. 27, 2383-2400, DOI: 10.1002/hyp.9355.
- Kumar, M., R. Wang, and T. E. Link. 2012. Effects of more extreme precipitation regimes on maximum seasonal snow water equivalent. *Geophysical Research Letters*. DOI:10.1029/2012GL052972.
- Reba, M. L.* , D. Marks, T. E. Link, J. W. Pomeroy, and A. Winstral. 2012. Sensitivity of model parameterizations for simulated latent heat flux at the snow surface for complex mountain sites. *Hydrological Processes*. DOI: 10.1002/hyp.9619.
- Reba, M. L.* , J. W. Pomeroy, D. Marks, and T. E. Link. 2012. Estimating surface sublimation losses

from snowpacks in a mountain catchment using eddy covariance and turbulent transfer calculations. *Hydrological Processes*. Published online. DOI: 10.1002/hyp.8372.

Koeniger, P., J. D. Marshall, T. E. Link, and A. Mulch. 2011. An inexpensive, fast, and reliable method for vacuum extraction of soil and plant water for stable isotope analyses. *Rapid Communications in Mass Spectrometry*. v. 25, 3041-3048. doi: 10.1002/rcm.5198.

Hubbart, J. A. *, T. E. Link, and W. Elliot. 2011. Strategies to improve WEPP snowmelt simulations in mountainous terrain. *Transactions of the American Society of Agricultural and Biological Engineers*. v. 54, n. 4, 1-13.

Lawler, R. R. * and T. E. Link. 2011. Quantification of incoming all-wave radiation in discontinuous forest canopies with application to snowmelt prediction. *Hydrological Processes*. doi: 10.1002/hyp.8150.

Reba M. L. *, D. G. Marks, A. Winstral*, T. E. Link, and M. Kumar. 2011. Sensitivity of the snowcover energetics in a mountain basin to variations in climate, *Hydrological Processes*. doi: 10.1002/hyp.8155.

Tinkham, W. *, H. Huang*, A. M. S. Smith, R. Shrestha, M. J. Falkowski, A. T. Hudak, T. E. Link, N. F. Glenn, and D. G. Marks. 2011. A comparison of two open source LiDAR surface filtering algorithms. *Remote Sensing*, v. 3, 638-649. doi: 10.3390/rs3030638.

Refereed/Adjudicated (cont.):

Ellis, C.R. *, J. W. Pomeroy, R. L. H. Essery, and T. E. Link. 2011. Effects of needleleaf forest cover on radiation and snowmelt dynamics in the Canadian Rocky Mountains, *Canadian Journal of Forest Research*, 41(3), pp. 608-20. doi:10.1139/X10-227.

Chauvin, G. M. *, G. N. Flerchinger, T. E. Link, D. Marks, A. H. Winstral*, and M. S. Seyfried. 2011. Long-term water balance and conceptual model of a semi-arid mountainous catchment, *Journal of Hydrology*, 400, pp. 133-43. doi:10.1016/j.jhydrol.2011.01.031.

Ice, G. G., G. W. Brown, J. A. Gravelle*, C. R. Jackson, J. T. Light, T. E. Link, D. J. Martin, D. McGreer, and A. Skaugset. 2010. Discussion: "Stream Temperature Relationships to Forest Harvest in Western Washington" by Michael M. Pollock, Timothy J. Beechie, Martin Liermann, and Richard E. Bigley. *Journal of the American Water Resources Association*, 1-5, doi: 10.1111/j.1752- 1688.2010.00441.x.

Gravelle, J. A. *, T. E. Link, J. Broglio[†] and J. Braatne. 2009. Impacts of timber harvest on aquatic macroinvertebrate community composition in a northern Idaho watershed. *Forest Science*. v. 55, n. 4, 352-366.

Reba, M. L. *, T. E. Link, D. Marks, and J. Pomeroy. 2009. An assessment of corrections for eddy covariance measured turbulent fluxes over snow in mountain environments. *Water Resources Research*, 45, W00D38, doi:10.1029/2008WR007045.

Koeniger, P., C. Leibundgut, T. E. Link, and J. D. Marshall. 2009. Stable isotopes used as applied water tracers in column and field studies. *Journal of Organic Geochemistry*. v. 41, 31-40. doi:10.1016/j.orggeochem.2009.07.006

Pomeroy, J. W., D. Marks, T. E. Link, C. Ellis*, J. Hardy, A. Rowlands, and R. Granger. 2009. The impact of coniferous forest temperature on incoming longwave radiation to melting snow. *Hydrological Processes*, v. 23, 2513-2525.

Reba, M. L. *, D. Marks, T. Link, J. Pomeroy. 2009. Inter-annual comparison of measured turbulent fluxes over snow at a wind-sheltered and wind-exposed site using eddy covariance. In: *Hydrology in Mountain Regions: Observations, Processes and Dynamics (Proceedings of Symposium HS1003 at IUGG2007. Perugia, Italy, July 2007)*. IAHS Publ. 326,

1-7.

- Gravelle, J. A. *, G. Ice, T. E. Link, and D. Cook. 2009. Nutrient concentration patterns in a northern Idaho watershed before and after timber harvest. *Forest Ecology and Management*. v. 257, 1663-1675.
- Marks, D., M. L. Reba *, J. Pomeroy, T. Link, A. Winstral*, G. Flerchinger and K. Elder. 2008. Comparing simulated and measured sensible and latent heat fluxes over snow under a pine canopy to improve an energy balance snowmelt model. *Journal of Hydrometeorology*, v. 9, 1506-1522.
- Pomeroy, J. P., Rowlands, A., Hardy, J. P., Link, T. E., Marks, D., Essery, R., Sicart, J. E., and Ellis, C*. 2008. Spatial variability of shortwave irradiance for snowmelt in forests. *Journal of Hydrometeorology*, v. 9, 1482-1490.
- Essery, R., J. Pomeroy, C. Ellis*, and T. Link. 2008. Modelling longwave radiation to snow beneath forest canopies using hemispherical photography or linear regression. *Hydrological Processes*. v. 22, 2788-2800. doi: 10.1002/hyp.6930.
- Essery, R., P. Bunting, J. Hardy, T. Link, D. Marks, R. Melloh, J. Pomeroy, A. Rowlands, and N. Rutter. 2008. Radiative transfer modelling of a coniferous canopy characterized by airborne remote sensing. *Journal of Hydrometeorology*, v. 9, 228-241.
- Refereed/Adjudicated (cont.):**
- Koeniger, P., J. A. Hubbart*, T. E. Link, and J. D. Marshall. 2008. Isotopic variation of snow cover and streamflow in response to changes in canopy structure in a snow-dominated mountain catchment. *Hydrological Processes*. v. 22, n. 4, 557-566.
- Hubbart, J. A. *, T. E. Link, J. A. Gravelle*, and W. J. Elliot. 2007. Timber harvest impacts on hydrologic yield in the continental/maritime hydroclimatic region of the U. S. *Forest Science*, v. 53, n. 2, 169-180.
- Gravelle, J. A. *, and T. E. Link. 2007. Influence of timber harvesting on water temperatures in a northern Idaho watershed. *Forest Science*, V. 53, n. 2, 189-205.
- Hubbart, J. A. *, K. L. Kavanagh, R. Pangle *, T. E. Link, A. Schotzko *. 2007. Cold air drainage and modeled nocturnal leaf water potential in complex forested terrain. *Tree Physiology*, v. 27, 631-639.
- Pomeroy, J.W., D.S. Bewley*, R.L.H. Essery, N.R. Hedstrom, T.E. Link, R.J. Granger, J.E. Sicart, C.R. Ellis*, and J.R. Janowicz. 2006. Shrub tundra snowmelt. *Hydrological Processes*. v. 20, 923-941.
- Covert, S.A. *, P.R. Robichaud, W.J. Elliot, and T.E. Link. 2005. Evaluation of runoff prediction from WEPP-based erosion models for harvested and burned forest watersheds. *Transactions of the American Society of Agricultural Engineers*. v. 48, n. 3, 1091-1100.
- Pypker, T.G. *, B.J. Bond, T.E. Link, D. Marks, and M.H. Unsworth. 2005. The importance of canopy structure in controlling the interception loss and spatial distribution of rainfall: Examples from young and old-growth Douglas-fir forests. *Agricultural and Forest Meteorology*, v. 130, 113-129.
- Hubbart, J.A. *, T.E. Link, and C. Campbell, and D. Cobos. 2005. An evaluation of a low-cost air temperature measurement system. *Hydrological Processes*, v. 19, 1517-1523.
- Link, T.E., D. Marks, and J.P. Hardy. 2004. A deterministic method to characterize canopy radiative transfer properties. *Hydrological Processes*, v. 18, pp. 3583-3594.

- Hardy, J.P., R. Melloh, D. Marks, G. Koenig, A. Winstral*, J. Pomeroy, and T.E. Link. 2004. Solar radiation transmission through conifer canopies. *Agricultural and Forest Meteorology*, v. 126, 257-270.
- Sicart, J.E., J.W. Pomeroy, R.L.H. Essery, J.P. Hardy, T.E. Link, and D. Marks. 2004. A sensitivity study of daytime net radiation during snowmelt to forest canopy and atmospheric conditions. *Journal of Hydrometeorology*, v. 5, 774-784.
- Keim, R.F.* , A. Skaugset, T.E. Link, and A. Iroumé. 2004. A stochastic model of temporal throughfall. *Hydrology and Earth Systems Science*, v. 8, n. 1, 23-34. (Invited paper)
- Link, T.E., M.H. Unsworth and D. Marks. 2004. The dynamics of rainfall interception by a seasonal temperate rainforest. *Agricultural and Forest Meteorology*, v. 124, pp. 171-191.
- Link, T.E., G.N. Flerchinger, M.H. Unsworth, and D. Marks. 2004. Simulation of water and energy fluxes in an old-growth seasonal temperate rainforest using the Simultaneous Heat and Water (SHAW) model. *Journal of Hydrometeorology*, v. 5, n. 3, pp. 443-457.
- Unsworth, M.H., N. Phillips, T.E. Link, B. Bond, M. Falk*, M. Harmon, T. Hinckley, D. Marks, and K-T. Paw U. 2004. Components and controls of water flux in an old growth Douglas fir/western hemlock ecosystem. *Ecosystems*, v. 7, 468-481.

Refereed/Adjudicated (cont.):

- Marks, D., T.E. Link, A. Winstral*, and D. Garen. 2001. Simulating snowmelt processes during rain-on-snow over a semi-arid mountain basin. *Annals of Glaciology*, v. 32, 195-202.
- Link, T.E. and D. Marks. 1999. Point simulation of seasonal snowcover dynamics beneath boreal forest canopies. *Journal of Geophysical Research*, v. 104, n. D22, pp. 27, 841-27,857.
- Link, T.E. and D. Marks. 1999. Distributed simulation of snowcover mass- and energy-balance in the boreal forest. *Hydrological Processes*, v. 13, n. 14/15, pp. 2439-2452.
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Peer Reviewed Book Chapters:

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Link, T.E., G.N. Flerchinger, M.H. Unsworth, and D. Marks. 2005. Water balance dynamics of a seasonal temperate rainforest. in: *Climatology and Hydrology of Mountain Areas*, Carmen DeJong, Dave Collins and Roberto Ranzi (eds.), J. Wiley & Sons, 344 pp. ISBN: 0-470-85814-1.

Link, T.E., C. Pearson, C. Jones, B. Fitt, C. Davis and A. Wolf. 2003. Status of water resources in the United States of America, 2000. in: *Water Resources of North America*, Asit K. Biswas (ed.), Springer-Verlag, New York, 380 pp. ISBN: 3-540-00284-7.

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Link, T. E., L. Saito, and A. Fernald. 2013. Introduction to Interdisciplinary Modeling, Research, and Education. *Journal of Contemporary Water Research & Education*, Issue 172, pp. 1-3.

Dobre, M.* , W. J. Elliot, J. Q. Wu, T. E. Link, B. Glaza, T. B. Jain, and A. T. Hudak. 2012. Relationship of field and LiDAR estimates of forest canopy cover with snow accumulation and melt. in: *Proceedings of the 80th annual Western Snow Conference*, Anchorage, AK, May 21-24, 2012. pp. 23-31.

Other Peer Reviewed Articles (cont.):

Dobre, M.* , W. J. Elliot, J. Q. Wu, T. E. Link, and I. S. Miller. 2011. Effects of forest cover and environmental variables on snow accumulation and melt. in: *USGS Scientific Investigations Report 2011-5169, "Observing, Studying, and Managing for Change"*, C. N. Medley, G. Patterson, and M. J. Parker, eds. pp. 114-119.

Elliot, W., E. Brooks, T. E. Link, and S. Miller. 2010. Incorporating groundwater flow into the WEPP model. *Proceedings of the 2nd Joint Interagency Conference*, Las Vegas, NV, June 27 - July 1, 2010.

Link, T. E. and J. A. Gravelle*. 2010. Mica Creek Study Results Fill Knowledge Gap. *Western Forester*, v. 55, n. 5, pp 8-10.

Link, T.E., C. Pearson, C. Jones, B. Fitt, C. Davis and A. Wolf. 2001. Status of water resources in the United States of America, 2000. Prepared for the Third World Center for Water Resource Management, Mexico City, Mexico. 110 pp.

Peer Reviewed/Evaluated (currently scheduled or submitted):

Flerchinger, G. N., R. L. Reba, T. E. Link, and D. Marks. (in 2nd review). Modeling temperature and humidity profiles within forest canopies. Submitted to *Agricultural and Forest Meteorology*

Hancock, J., B*. Williams, E. Strand, and T. E. Link. (in revision). Analysis of thermal heterogeneity and degree of channelization on an anthropogenically constrained creek in the interior Pacific Northwest. Submitted to *Hydrological Processes*.

Corrao, M. V.* , R. Heinse, J. U. H. Eitel, and T. E. Link. (in 2nd revision). Terracette influenced soil moisture patterns on semiarid rangelands. Submitted to *Soil Science Society of America Journal*.

Du, E*, T. E. Link, L. Wei, and J. D. Marshall. (in revision). Evaluation of the hydrologic effects of spatial and temporal patterns of forest canopy change using numerical modeling. Submitted to: *Hydrological Processes*.

Niemeyer, R. N.* , T. E. Link, and M. S. Seyfried. (in revision). Snow interception in Western Juniper

and Mountain Big Sagebrush. Submitted to Rangeland Ecology and Management.

Wei, L., T. E. Link, A. T. Hudak, J. D. Marshall, K. L. Kavanagh, J. T. Abatzoglou, H. Zhou, R. E. Pangle, and G. N. Flerchinger. (in review). Simulated Water Budget of a Small Forested Watershed in the Continental/Maritime Hydroclimatic Region of the United States. Submitted to Hydrological Processes.

Peer Reviewed/Evaluated (in preparation):

Carson, D.* , T. E. Link, and D. Marks. (in preparation). Quantification of snow pack mass and energy dynamics across a canopy discontinuity. For submittal to Hydrological Processes.

Chain-Guadarrama*, A., P. Z. Klos*, F. Casanoves, B. Finegan, L. Vierling, R. Chazdon, and T. E. Link. (in revision). The functional and structural characteristics of forest canopies drive distinctive throughfall patterns between old-growth and second-growth Neotropical rain forests. For submittal to: TBA.

Du, E.* , T. E. Link, and J. Abatzoglou. (in preparation). Evaluating the potential hydrologic responses to climate changes in an interior Pacific Northwest forested watershed. For submittal to Journal of Hydrology.

Herchmer, E. L.* , T. E. Link, R. Melloh, and N. P. Molotch. (in preparation). Scaling snow observations from the point to the grid element: Evaluation of a simple snow depth mapping model. For submittal to Hydrological Processes.

Klos, P. Z.† , T. E. Link, and J. A. Gravelle. (in preparation). Quantifying incoming shortwave and longwave radiation to headwater streams beneath different canopy structures. For submittal to: Agricultural and Forest Meteorology.

Klos, P. Z.* , T. E. Link, J. Abatzoglou, and K. Kavanagh. (in preparation) Changes in the climatic water balance and precipitation phase under a warming climate: Implications for terrestrial ecosystems in the Columbia River Basin. For submittal to: Hydrological Processes.

Link, T. E., J. W. Pomeroy, D. Marks, and R. Essery. (in preparation) Radiative regimes in discontinuous vegetation canopies: Evidence for incoming all-wave radiative paradoxes. For submission to Hydrology and Earth Systems Science.

Seyfried, M., T. E. Link, D. Marks, and S. Tyler. (in preparation) Measurement of soil temperature in snow-affected, complex terrain using distributed temperature sensing (DTS). For submission to: Hydrological Processes

Sydow, L.† , J. A. Gravelle* , T. E. Link, and R. Keefe* . (in preparation). Comparison of effective shade estimation methods for montane headwater streams. For submission to: Forest Ecology and Management.

Wei, L., J. D. Marshall, T. E. Link, K. L. Kavanagh, H. Zhou, and E. Du. (in preparation). Elevational gradients of temperature and air humidity in a small watershed where cold air drainage prevails.

Professional Meeting Papers, Workshops, Showings, Recitals:

Patton, N. M. Seyfried, K. Lohse, and T. E. Link. Controls of Parent Material and Topography on Soil Carbon Storage in the Critical Zone. Abstract H51D-0648. Presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.

Klos, P. Z., T. E. Link, W. Durrett, R. Heinse, M. Seyfried, and E. Leonard. Influence of contrasting aspect, lithology, and vegetation on saprolite genesis in complex terrain: Reynolds Creek Critical Zone Observatory. Abstract H51D-0649. Presented at 2014 Fall Meeting, AGU, San

Francisco, Calif., 15-19 Dec.

Seyfried, M., T. E. Link, P. Z. Klos, N. Patton, and K. Lohse. Ecohydrological Implications of Contrasting Slope and Aspect in Complex Terrain. Abstract H51D-0641. Presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.

Link, T. E. and D. Carson. A Comparison of Snowpack Mass and Energy Dynamics Across a Canopy Discontinuity and Small-Scale Elevational Gradient. Abstract C43E-0457. Presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

Musselman, K, J. Pomeroy, and T. E. Link. Ray Trace Modeling to Determine Optimal Forest Canopy Gap Size for Reduced Solar Irradiance During Snowmelt: Field Verification and Continental Scale Application. Abstract C41D-07. Presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.

Soderquist, B., K. Kavanagh, T. E. Link, E. Strand, and M. Seyfried. Simulating the Dependence of Sagebrush Steppe Vegetation on Redistributed Snow in a Semi-Arid Watershed. Abstract H34B-03 Presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.

Wei, L., A. Hudak, T. E. Link, J. Marshall, K. Kavanagh, H. Zhou, J. Abatzoglou, R. Pangle, G. Flerchinger, R. Denner. Why has streamflow in a northern Idaho creek increased while flows from many other watersheds in the US Pacific Northwest have decreased over the past sixty years? Abstract B31E-0054 Presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.

Hudak, A.T., P. Fekety, L. Wei, J. Marshall, T. Link, K. Kavanagh and M. Falkowski. An integrated measurement and modeling approach for predicting landscape-level carbon and water budgets at the Priest River Experimental Forest in northern Idaho, USA. ForestSAT Conference, Lake Garda, Italy, 4-7 Nov 2014. (oral presentation, published abstract).

T. E. Link, J. A. 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. International Union of Forest Research Organizations (IUFRO) 24th World Congress. Salt Lake City, UT, Oct. 5-11, 2014.

B. Soderquist, K. L. Kavanagh, T. E. Link, M. Seyfried, and A. Winstral. 2014. Simulating the dependence of aspen (*Populus tremuloides*) net primary production on redistributed snow. International Union of Forest Research Organizations (IUFRO) 24th World Congress. Salt Lake City, UT, Oct. 5-11, 2014.

J. Hubbart, T. E. Link, and W. Elliot. 2014. Effects of contemporary harvest practices on water yield and snowpack dynamics in the continental-maritime region of the USA. International Union of Forest Research Organizations (IUFRO) 24th World Congress. Salt Lake City, UT, Oct. 5-11, 2014.

L. Wei, T. E. Link, A. Hudak, J. Marshall, and K. L. Kavanagh. 2014. Long-term changes in climate, forest vegetation, and streamflow in the Priest River Experimental Forest, northern Idaho. International Union of Forest Research Organizations (IUFRO) 24th World Congress. Salt Lake City, UT, Oct. 5-11, 2014.

A. T. Hudak, J. Sandquist, T. Jain, J. Byrne, P. Fekety, M. J. Falkowski, L. Wei, J. D. Marshall, T. E. Link, and K. L. Kavanagh. 2014. Biomass and carbon stores estimated in 2011 and 1934 at Priest River Experimental Forest, northern Idaho, USA. International Union of Forest Research Organizations (IUFRO) 24th World Congress. Salt Lake City, UT, Oct. 5-11, 2014.

S. Dickerson-Lange, J. Lundquist, R. Gersonde, T. E. Link, J. Lutz, S. Malloch, A. Nolin, and A.

Snover. 2014. Testing an empirical model of snowpack duration using citizen science field observations from the mountains of the Pacific Northwest. 5th Annual Pacific Northwest Climate Science Conference, Sep. 9-10, 2014.

T. E. Link, M. S. Seyfried, S. Bryden, J. P. McNamara, and P. Z. Klos. 2013. Soil temperature and water dynamics on contrasting aspects in the rain-snow transition zone. Abstract H51F-1266 Presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

W. Tinkham, A. M. Smith, H-P. Marshall, T. E. Link, M. J. Falkowski, and A. H. Winstral. 2013. Quantifying spatial distribution of snow depth errors from LiDAR using Random Forests. Abstract H13J-1497 Presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

R. J. Niemeyer, T. E. Link, R. Heinse, and M. S. Seyfried. 2013. Conifer encroachment and hydrology: Altered above and below ground hydrologic fluxes in western juniper (*Juniperus occidentalis*). Abstract H21F-1125 Presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

B. Soderquist, K. Kavanagh, T. E. Link, M. S. Seyfried, and A. H. Winstral. 2013. Simulating the Dependence of Aspen on Redistributed Snow. Abstract H23C-1273 Presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

M. S. Seyfried and T. E. Link. 2013. Soil Temperature Variability in Complex Terrain measured using Distributed a Fiber-Optic Distributed Temperature Sensing. Abstract H23F-1349 Presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

D. G. Marks, M. L. Reba, A. H. Winstral, M. Kumar, and T. E. Link. 2013. Patterns of snowcover energetics over different land cover and topographic position with variations in climate. Abstract C41B-0608 Presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

G. N. Flerchinger; D. G. Marks; M. L. Reba, and T. E. Link. 2013. Measurement and Modeling of Vertical Temperature, Humidity and Wind Profiles Through Aspen Stands in a Mountain Basin. Abstract H43D-1489 Presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

M. Kumar, B. Seyednasrollah, and T. E. Link. 2013. In search of radiation minima for balancing the needs of forest and water management in snow dominated watersheds (Invited). Abstract C51D-05 Presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

P. W. Robinson, D. Neal, D. Frome, K. Kavanagh; A. Davis, P. E. Gessler, H. Hess, Z. A. Holden, T. E. Link, B. A. Newingham, and A. M. Smith. 2013. Mountainous Ecosystem Sensor Array (MESA): a mesh sensor network for climate change research in remote mountainous environments. Abstract IN41C-1617 Presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

M. Seyfried, T. E. Link, S. Bryden. 2013. Soil temperature and water dynamics on contrasting aspects in the rain-snow transition zone. Abstract 1048 Presented at the Davos Atmosphere Cryosphere Assembly (DACA-13), Davos, Switzerland, 8-12 July.

D. Marks, A. Winstral, T. E. Link, M. Reba, and M. Kumar. 2013. Rain on snow: the impact of climate warming on the spatial variability of snow and mountain hydrology. Abstract 997 Presented at the Davos Atmosphere Cryosphere Assembly (DACA-13), Davos, Switzerland, 8-12 July.

T. E. Link, C. Ellis, J. W. Pomeroy, R. R. Lawler, R. Essery, and D. Marks. 2013. The effect of canopy gaps on incoming radiation at the snow surface and implications for snowpack retention in forested regions. Abstract 686 Presented at the Davos Atmosphere Cryosphere Assembly (DACA-13), Davos, Switzerland, 8-12 July. INVITED.

D. Marks, M. Reba, A. Winstral, T. E. Link, M. Kumar. 2013. Sensitivity of snowcover energetics to variations in climate, land cover and topographic position. Abstract 1020 Presented at the Davos Atmosphere Cryosphere Assembly (DACA-13), Davos, Switzerland, 8-12 July.

T. E. Link, J. W. Pomeroy, R. R. Lawler, C. Ellis, D. Marks, and R. Essery. 2013. A Sensitivity Study of Radiant Energy During Snowmelt in Small Canopy Gaps. Marmot Basin 50th Anniversary Workshop. Kananaskis Country, AB. 21-22 Feb. 2013. INVITED

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

T. E. Link, M. Kumar, J. Pomeroy, B. Seyednasrollah, C. Ellis, R. Lawler, and R. Essery. 2012. Opportunities and challenges to conserve water on the landscape in snow-dominated forests: The quest for the radiative minima and more... Abstract GC51F-03 To be presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec. INVITED.

P. Z. Klos, J. Abatzoglou, J. Blades, M. Clark, C. Currie, M. Dodd, S. Eigenbrode, T. Hall, A. Haruch, J. Hicke, P. Higuera, J. Holbrook, V. Jansen, K. Kemp, A. Lamar, A. Lankford, T. E. Link, T. Magney, A. Meddens, L. Mitchell, B. Moore, P. Morgan, B. Newingham, R. Niemeyer, B. Soderquist, A. Suazo, C. Teston, K. Vierling, V. Walden, C. Walsh. 2012. Indicators of climate change in Idaho: The intersection of biophysical change with social perception across a diverse landscape. Presented at the Pacific Northwest Climate Conference, Boise, Idaho, 2 Oct 2012.

T. E. Link, P. Z. Klos, J. T. Abatzoglou, and K. Kavanagh. 2011. Assessing the climatic water deficit in a changing climate: A new index to evaluate the potential importance of subsurface storage in mountain ecosystems. Abstract GC31A-1018 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.

K. Kavanagh, A. Davis, P. Gessler, H. Hess, Z. Holden, T. E. Link, B. A. Newingham, A. M. Smith, and P. Robinson. 2011. Development of a three dimensional wireless sensor network for terrain-climate research in remote mountainous environments. Abstract B13A-0524 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.

S. Bryden, T. E. Link, M. S. Seyfried, and J. P. McNamara. 2011. Coupled snow dynamics, soil moisture, and soil temperatures in complex terrain of a semi-arid mountainous watershed. Abstract C33E-0687 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.

W. T. Tinkham, C. M. Hoffman, M. J. Falkowski, A. M. Smith, T. E. Link, and H. P. Marshall. 2011. Spatial accounting for errors in LiDAR-derived products: Snow volume and snow water equivalent estimation. Abstract C33D-0672 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.

D. G. Marks, M. L. Reba, A. H. Winstral, T. E. Link, and M. Kumar. 2011. Sensitivity of the snowcover energetics to land cover and topographic position to variations in climate. Abstract C33E-0690 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.

P. Z. Klos, A. Chain, L. A. Vierling, T. E. Link, and B. Finegan. 2011. Throughfall heterogeneity in forested landscapes as a focal mechanism for deep percolation: yes or no? Abstract H33E-1360 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.

T. E. Link, D. Marks, M. S. Seyfried, G. Flerchinger, and A. Winstral. 2011. The Reynolds Creek Experimental Watershed: An environmental observatory for the 21st century. NSF sponsored workshop: Design of Global Environmental Gradient Experiments using International CZO Networks. Newark, DE, November 8-10, 2011.

T.E. Link, R. Essery, J. Pomeroy, D. Marks, R. Lawler. 2011. A sensitivity study of radiant energy during snowmelt in non-uniform forests. IAHS Decade on Predictions in Ungauged Basins

(PUB), Final Meeting. Canmore, AB, May 11-14, 2011.

P. Z. Klos, K. B. Kemp, J. J. Blades, T. E. Link, P. Morgan, P. E. Higuera, T. E. Hall. 2010. Assessing the effects of changing climate on the transformation and vulnerability of coupled hydrologic, ecologic, and human systems using an interdisciplinary spatiotemporal methodology. IAHS Decade on Predictions in Ungauged Basins (PUB), Final Meeting. Canmore, AB, May 11-14, 2011.

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

K. Friedrichs, T. E. Link and J. A. Gravelle. 2011. Habitat change assessment in a northern Idaho managed forest. Land Grant and Sea Grant National Water Conference, Washington, D.C., January 31 - February 1, 2011.

P. Z. Klos, K. B. Kemp, J. J. Blades, T. E. Link, P. Morgan, P. E. Higuera, T. E. Hall. 2010. Assessing the effects of changing climate on the transformation and vulnerability of coupled hydrologic, ecologic, and human systems using an interdisciplinary spatiotemporal methodology. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., H33C-1145.

J. P. McNamara; T. E. Link; D. G. Marks; M. S. Seyfried; M. Kumar; P. R. Kormos. 2010. On the value local knowledge in conceptualizing physically-based models. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., H31L-05 INVITED.

T. E. Link, G. N. Flerchinger, G. M. Chauvin, D. G. Marks, A. H. Winstral, M. S. Seyfried, and E. Du. 2010. Application of a long-term water balance of a semi-arid mountainous catchment to understand potential impacts of climate change. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., H31I-02 INVITED.

E. Du, T. E. Link, and J. T. Abatzoglou. 2010. Evaluating hydrologic responses to climate changes in an inland Pacific Northwest forested headwater catchment using numerical modeling. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., C13C-06 INVITED.

K. Kavanagh, T. E. Link, M. S. Seyfried, and K. B. Kemp. 2010. The fate of aspen in a world with diminishing snowpacks. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., B31E-0355.

L. Meromy, N. P. Molotch, T. E. Link, S. R. Fassnacht, E. Herchmer, S. Roberts, and R. Rice. 2010. Subgrid variability of snow water equivalent at operational snow stations in the western United States. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., Abstract C33C-0541.

T. E. Link, D. Carson, and D. G. Marks. 2010. Quantification of snowpack mass and energy dynamics across a canopy discontinuity. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., Abstract C33C-0547.

M. S. Seyfried, C. Mendoza, and T. E. Link. 2010. Use of fiber optic, distributed temperature sensing to describe snow cover dynamics in complex terrain. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., Abstract C33C-0549.

W. T. Tinkham, A. M. Smith, T. E. Link, A. T. Hudak, M. J. Falkowski, and D. G. Marks. 2010. Spatial assessment of snow volume using LiDAR and field measurements. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., Abstract C33C-0555.

T. E. Link and R. R. Lawler. 2010. Spatiotemporal Distribution of All-wave Radiation in Discontinuous Canopies with Application to Snowmelt Prediction. Eastern Snow Conference, Hancock, MA, June 8-10, 2010.

- M. L. Reba, D. Marks, A. Winstral, and T. E. Link. 2010. Melt energetics of twenty-five years of distributed, physically-based snowcover simulations in a small headwater catchment in the semi-arid western United States. Eastern Snow Conference, Hancock, MA, June 8-10, 2010.
- D. Marks, R. Essery, T. E. Link, A. Winstral, M. Reba, and J. Pomeroy. 2009. Accounting for canopy shading and emissivity in simulated radiation fields over a complex mountainous region. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., Abstract C23D-06 INVITED.

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

- R. Lawler and T. E. Link. 2009. Quantifying all-wave radiation in discontinuous canopies with application to snowmelt prediction. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., Abstract C31B-0449.
- A. Shallcross, J. P. McNamara, H. Marshall, D. G. Marks, T. E. Link, and A. H. Winstral. 2009. Estimating snow volume in mountain catchments using aerial LiDAR. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., Abstract C31D-0468.
- H. Huang, A. M. Smith, T. E. Link, and D. G. Marks. 2009. LiDAR DEM validation in shrub areas at Reynolds Mountain East subwatershed. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., Abstract U13B-0066.
- E. Du, L. Wei, T. E. Link, J. D. Marshall, and J. A. Gravelle. 2009. Evaluating the spatiotemporal hydrologic effects of forest harvesting using numerical modeling. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., Abstract H13D-1005.
- L. Sydow, T. E. Link, and J. A. Gravelle. 2009. Estimating effective stream shade in riparian areas. Eos Trans. AGU, 90(22), Fall Meet.. Suppl., Abstract H51I-0905.
- M. Darrington, Dennis, P., G/Eyesus Getahun, Y., Hartson, R., Jolley, J., Machala, J., Marchant, L., Reeves, M., Scott, K., Solomon, M., Tran, C., Boll, J., Fiedler, F., Link, T., and Parker, J. 2009. An Interdisciplinary Evaluation of Idaho's 2009 Eastern Snake Plain Comprehensive Aquifer Management Plan. Water and Land Use in the Pacific Northwest: Integrating Communities and Watersheds, Skamania, WA. November 4-6, 2009.
- M. L. Reba, D. Marks, T. E. Link, and J. W. Pomeroy. 2009. Evaluation of the sensitivity of parameterizations of simulated latent heat flux over snow at two complex mountain sites. Paper No. 228-6. Geological Society of America Annual Meeting, Portland, OR. October 18-21, 2009.
- T.E. Link, R. Essery, J. Pomeroy, D. Marks, R. Lawler. 2009. A sensitivity study of radiant energy during snowmelt in non-uniform forests. AGU Chapman Conference: Examining Ecohydrological Feedbacks of Landscape Change Along Elevation Gradients in Semiarid Regions. Boise and Sun Valley, October 4-8, 2009.
- T. E. Link. 2009. Interactions of topography, snow, vegetation, and radiation in complex terrain. AGU Chapman Conference field tour: Examining Ecohydrological Feedbacks of Landscape Change Along Elevation Gradients in Semiarid Regions. Reynolds Creek Experimental Watershed, October 4, 2009. INVITED
- R. Lawler and T. E. Link. 2009. Quantifying all-wave radiation in discontinuous canopies with application to snowmelt prediction. Society of American Foresters Annual Convention. Orlando, FL, Sep. 30 - Oct. 4, 2009
- D. Marks, R. Essery, T. E. Link, A. Winstral, M. Reba, and J. Pomeroy. 2009. Correcting radiation

fields for canopy shading and emissivity in complex mountainous basins. MOCA-09 Joint Assembly. Montreal, Canada. July 19-29, 2009. INVITED

T. E. Link, J. Pomeroy, R. Essery, D. Marks, R. Lawler, and J. Hardy. 2009. Sub-canopy radiant energy during snowmelt in non-uniform forests spanning a latitudinal transect. MOCA-09 Joint Assembly. Montreal, Canada. July 19-29, 2009.

T. E. Link, J. W. Pomeroy, R. Essery, D. Marks, and R. Lawler. 2009. Sub-canopy radiant energy during snowmelt in non-uniform forests spanning a latitudinal transect. Eos Trans. AGU, 90(22), Jt. Assem. Suppl., Abstract CG13B-01 INVITED.

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

D. Marks, M. J. Sandells, G. Flerchinger, and T. E. Link. 2009. A coupled energy and water balance model for snow-vegetation-soil systems. Eos Trans. AGU, 90(22), Jt. Assem. Suppl., Abstract CG13B-03.

T. E. Link, D. Marks, J. Pomeroy, R. Essery, R. Lawler, J. Hardy, and J. E. Sicart. 2009. Sub-canopy radiant energy during snowmelt in non-uniform forests spanning a latitudinal transect. Western Snow Conference. Canmore, Alberta, Canada. April 20-23, 2009.

T. E. Link, J. A. Gravelle, J. A. Hubbart, D. Karwan, E. Du, P. Z. Klos. 2009. Effectiveness Assessment of Best Management Practices for Forestry in the Inland Pacific Northwest. USDA-CSREES National Water Conference, St. Louis, MO. February 9-12, 2009.

J. Pomeroy, C. DeBeer, C. Ellis, R. Essery, W. Helgason, N. Kinar, T. E. Link, and J. MacDonald. 2008. Improving Snow Measurement Technology to Better Parameterise Cold Regions Hydrometeorology Models. Eos Trans. AGU, 89(53). Fall Meet. Suppl., Abstract C21A-0503.

E. Du, T. E. Link, J. Gravelle, and J. Hubbart. 2008. Validation and Sensitivity Assessment of a Distributed Hydrologic Model for an Inland Pacific Northwest Forested Watershed. Eos Trans. AGU, 89(53). Fall Meet. Suppl., Abstract H13C-0941.

P. Koeniger, E. Du, T. E. Link, J. D. Marshall. 2008. Forest Harvesting Impacts on the Water and Isotope Balance of a Mountainous Watershed in Northern Idaho USA. Eos Trans. AGU, 89(53). Fall Meet. Suppl., Abstract B23C-0462.

N. P. Molotch, T. E. Link, S. R. Fassnacht, E. Herchmer, L. Meromy, S. Roberts, A. Snyder, and R. Rice. 2008. Determining subgrid variability in snow water equivalent surrounding operational snow stations of the western U.S. Eos Trans. AGU, 89(53). Fall Meet. Suppl., Abstract C21A-0501.

T. E. Link, R. Essery, D. Marks, J. Pomeroy, R. Lawler, J. Hardy, and J. E. Sicart. 2008. Sub-canopy radiant energy during snowmelt in non-uniform forests spanning a latitudinal transect. Eos Trans. AGU, 89(53). Fall Meet. Suppl., Abstract C21C-0574.

T. E. Link and D. Marks. 2008. Hydrologic research at Reynolds Creek: The southernmost node in the IP3 network. Improved Processes and Parameterisation for Prediction in Cold Regions (IP3) - Annual Meeting, Whitehorse, Yukon Territory, Canada, November 13-15, 2008.

R. Lawler and T. E. Link. 2008. Spatial Modeling of all-wave incoming radiation in discontinuous forest canopies. Society of American Foresters Annual Convention, Reno, NV, November 5-9, 2008.

G. M. Chauvin, G. N. Flerchinger, T. E. Link, D. Marks, A. H. Winstral, and M. S. Seyfried. 2008. A long-term water balance of a mountainous semi-arid watershed. ASABE Annual International Meeting, Providence, RI, June 29-July 2, 2008.

- A. Hudak, J. Evans, D. McNamara, M. Falkowski, J. Jensen, S. Martinuzzi, L. Vierling, and T. Link. Forestry applications of LiDAR in the Interior Northwest. USGS Second National Lidar Meeting, Reston, VA, 21-22 May 2008.
- T. E. Link, C. Luce, B. Denner, and A. Robinson. 2007. Long-term changes in snow water equivalent and streamflow in northern Idaho. *Eos Trans. AGU*, 88(52). Fall Meet Suppl., Abstract C21B-0450.
- P. Z. Klos and T. E. Link. 2007. Quantifying radiative inputs to headwater streams in recently harvested forests. *Eos Trans. AGU*, 88(52). Fall Meet Suppl., Abstract H13D-1541.

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

- E. Du, T. E. Link, J. A. Hubbart, and J. A. Gravelle. 2007. Modeling hydrologic response to land cover change in the inland Pacific Northwest. *Eos Trans. AGU*, 88(52). Fall Meet Suppl., Abstract H11G-07.
- J. A. Hubbart, T. E. Link, and E. Du. 2007. Measured and modeled water balances for three snow dominated forested catchments with different canopy cover in the inland Pacific Northwest. *Eos Trans. AGU*, 88(52). Fall Meet Suppl., Abstract H31B-0360.
- M. L. Reba, D. Marks, T. E. Link, J. Pomeroy, and A. Winstal. 2007. Evaluation of measured and simulated turbulent components of a snow cover energy balance model in order to refine the turbulent transfer algorithm. *Eos Trans. AGU*, 88(52). Fall Meet Suppl., Abstract C34A-07. International Union of Geology and Geodesy (IUGG) General Assembly, Perugia, Italy, July 2-13, 2007.
- P. Koeniger, T. E. Link, and J. D. Marshall. 2007. Do water isotopes reflect differences in timber harvest practices? Isotope ecohydrology in the Mica Creek watershed, Idaho USA. International Symposium on Advances in Isotope Hydrology and its Role in Sustainable Water Resources Management, International Atomic Energy Agency, Vienna, Austria, May 21-25, 2007.
- R. Essery, C. Ellis, J. Hardy, T. Link, and J. Pomeroy. 2007. Modelling longwave radiation to snow beneath forest canopies using hemispherical photography. Canadian Geophysical Union Annual Meeting, St. Johns, Newfoundland, Canada, May 29 - June 1, 2007.
- H. Ahmadi, A. Malekian, T. E. Link, H. M. Asgari, M. Tahmouras, and M. Biniyaz. 2007. Estimation of daily suspended sediment yield based on neural networks and neuron-fuzzy techniques, Integrated Watershed Management Conference, American Institute of Hydrology, Reno, NV, April 22-15, 2007.
- Gravelle, J. A., T. E. Link, J. A. Hubbart, J. H. Braatne, and D. L. Karwan. 2006. Impacts of Contemporary Timber Harvest and Road Construction in a Mountainous Catchment of the Northern Idaho Panhandle. American Society of Agricultural and Biological Engineers, 4th Conference on Watershed Management to meet Water Quality Standards and TMDLs, San Antonio, TX, March 11-14 2007.
- T. E. Link. 2007. Evaluating the environmental effectiveness of contemporary forest practices: Inland Empire including eastern British Columbia. Society of American Foresters Annual Convention. Portland, OR, Oct. 24, 2007. Invited Presentation.
- T. E. Link, P. Z. Klos, and J. A. Gravelle. 2007. Incoming radiative regimes in harvested and unharvested headwater streams. Society of American Foresters Annual Convention. Portland, OR, Oct. 24, 2007.
- R. Lawler and T. E. Link. 2007. Quantifying all-wave radiation in discontinuous canopies. Society of American Foresters Annual Convention. Portland, OR, Oct. 24, 2007

- E. Du and T. E. Link. 2007. Hydrologic modeling of streamflow response to the forest harvesting in the inland Pacific Northwest. Society of American Foresters Annual Convention. Portland, OR, Oct. 24, 2007.
- J. A. Gravelle and T. E. Link. 2007. Influence of timber harvesting on headwater peak stream temperatures in a northern Idaho watershed. Society of American Foresters Annual Convention. Portland, OR, Oct. 24, 2007.
- J. A. Gravelle, G. Ice, T. E. Link. 2007. Influence of timber harvest on nutrient concentration patterns. Society of American Foresters Annual Convention. Portland, OR, Oct. 24, 2007.

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

- J. A. Gravelle, T. E. Link, J. Broglio, and J. Braatne. 2007. Effects of timber harvest on aquatic macroinvertebrate community composition in a northern Idaho watershed. 2007. Society of American Foresters Annual Convention. Portland, OR, Oct. 24, 2007.
- J. Hubbard and T. E. Link. 2007.. Timber harvest impacts on water yield and snowcover dynamics in the continental maritime region of the United States. Society of American Foresters Annual Convention. Portland, OR, Oct. 24, 2007.
- T. E. Link, D. Marks, J. W. Pomeroy, R. Essery, J. P. Hardy, A. M. S. Smith, M. Reba, and J. E. Sicart. 2007. Sub-canopy radiant energy during snowmelt in heterogeneous forests spanning a latitudinal transect. North American Mountain Hydroclimate Workshop. Boulder, CO, October 17-19, 2007.
- P. Koeniger, J. Gravelle, T. E. Link, J. D. Marshall. 2007. Isotope hydrological and hydro chemical characterization of base flow at the Mica Creek Experimental Watershed, northern Idaho, International Union of Geology and Geodesy (IUGG) General Assembly, Perugia, Italy, July 2-13, 2007.
- A. Skaugset, G. Ice, T. E. Link, and B. Bilby. 2007. Contemporary paired watershed studies in the Pacific Northwest: Evaluating the effectiveness of contemporary forest practices. 3rd Forest Engineering Conference, FERIC, Mont-Tremblant, Quebec, Canada.
- T. E. Link, R. Essery, D. Marks, J. W. Pomeroy, J. P. Hardy, M. Reba, and J. E. Sicart. 2007. Sub-canopy radiant energy during snowmelt in heterogeneous forests spanning a latitudinal transect. International Union of Geology and Geodesy (IUGG) General Assembly, Perugia, Italy, July 2-13, 2007.
- M. L. Reba, D. Marks, T. E. Link, J. Pomeroy, and A. Winstral. 2007. Evaluation of measured and simulated turbulent components of a snow cover energy balance model in order to refine the turbulent transfer algorithm.
- J. Hubbard and T.E. Link. 2006. Snow Deposition, Ablation, and Microclimate Heterogeneity in Complex Forested Mountainous Terrain. In: Abstracts with Programs. AGU – San Francisco, California, December 2006. American Geophysical Union, Washington, DC.
- T.E. Link, R. Essery, J.P. Hardy, D. Marks, J.W. Pomeroy, M. Reba, and J.E. Sicart. 2006. Sub-canopy radiant energy during snowmelt in uniform and non-uniform forests spanning a latitudinal transect, In: Abstracts with Programs. AGU – San Francisco, California, December 2006. American Geophysical Union, Washington, DC.
- E. Du, J. Hubbard, J. Gravelle, and T.E. Link. 2006. Hydrologic Impact of Harvesting and Road Construction in Mountainous Regime of Pacific Northwest. In: Abstracts with Programs. AGU – San Francisco, California, December 2006. American Geophysical Union, Washington, DC.

- M.L. Reba, D. Marks, T.E. Link, and J. Pomeroy. 2006. A Comparison of Measured and Modeled Turbulent Fluxes Over Snow Based on Site Characteristics, In: Abstracts with Programs. AGU – San Francisco, California, December 2006. American Geophysical Union, Washington, DC.
- P. Königer, J.A. Hubbart, T.E. Link, and J.D. Marshall. 2006. Stable Isotope Variability in Snowcover and Snowmelt in Response to Forest Management in a Mountainous Catchment. In: Abstracts with Programs. AGU – San Francisco, California, December 2006. American Geophysical Union, Washington, DC.

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

- R. Essery, P. Bunting, A. Rowlands, J. Hardy, and T.E. Link. 2006. Remote characterization of forest structure for radiative transfer modeling, In: Abstracts with Programs. AGU – San Francisco, California, December 2006. American Geophysical Union, Washington, DC.
- L. Gray, J.A. Hubbart, K. Kavanagh, T.E. Link, and R. Pangle. 2006. Persistent Cold Air Drainage and Modeled Nocturnal Leaf Water Potential in Complex Forested Mountainous Terrain, In: Abstracts with Programs. AGU – San Francisco, California, December 2006. American Geophysical Union, Washington, DC.
- J. Boll, B. Cosens, F. Fiedler, T.E. Link, P. Wilson, C. Harris, M. Tuller, G. Johnson, and B. Kennedy. 2006. University of Idaho Water of the West Initiative: Development of a sustainable, interdisciplinary water resources program, In: Abstracts with Programs. AGU – San Francisco, California, December 2006. American Geophysical Union, Washington, DC.
- D. Marks, T.E. Link, M.L. Reba, R.L.H. Essery, J.P. Hardy, J.W. Pomeroy, and J.E. Sicart. 2006. Sub-canopy radiant energy during snowmelt in uniform and non-uniform forests spanning the North American Cordillera. (abs.). In: Abstracts with Programs. AGU – Baltimore, Maryland, June 2006. American Geophysical Union, Washington, DC.
- T.E. Link, J.A. Gravelle, J.A. Hubbart, and D.L. Karwan. 2006. Abiotic impacts of contemporary forest harvest practices in a mountainous catchment in the continental/maritime hydroclimatic region of the western U.S. Annual meeting of the North American Benthological Association (NABS), Anchorage, Alaska, June 2006. Invited Presentation.
- Chauvin, G.M., T.E. Link, G.N. Flerchinger, D. Marks, and A. Nayak. 2006. A Water Balance Approach to Characterizing the Hydroclimatology of a Mountainous Semi-arid Catchment (abs.). In: Abstracts with Programs. Society for Rangeland Management – Vancouver, B.C., February 2006.
- Link, T.E., M.L. Reba, R. Essery, J.P. Hardy, D. Marks, and J. Pomeroy. 2005. Small-scale spatial variability of sub-canopy radiant energy during snowmelt in deciduous and coniferous forest patches. (abs.). In: Abstracts with Programs. AGU - San Francisco, 2005. American Geophysical Union, Washington, DC.
- Marks, D., J. Pomeroy, A. Winstral, T. Link and R. Essery. 2005. Interaction between climate, topography, vegetation, and snowcover in semi-arid mountain catchments. (abs.). In: Abstracts with Programs. AGU - San Francisco, 2005. American Geophysical Union, Washington, DC.
- Reba, M.L., D. Marks, T.E. Link and A. Winstral. 2005. Comparison of estimation methods to determine turbulent fluxes over snow in a mountainous forested environment. (abs.). In: Abstracts with Programs. AGU - San Francisco, 2005. American Geophysical Union, Washington, DC.
- Pomeroy, J.W., D.S. Bewley, R.L.H. Essery, R.J. Granger, T.E. Link, and D. Marks. 2005. Snowmelt in an arctic mountain shrub tundra. (abs.). In: Abstracts with Programs. AGU - San Francisco,

2005. American Geophysical Union, Washington, DC.

Boll, J., E.S. Brooks, J.A. Hubbard, T.E. Link, T.W. Cundy, W.J. Elliot, and J.A. Gravelle. 2005. Long-term continuous GIS-based modeling of forest land use changes in Mica Creek watershed in northern Idaho. (abs.). In: Abstracts with Programs. AGU - San Francisco, 2005. American Geophysical Union, Washington, DC.

Essery, R.I., J.P. Hardy, T.E. Link, D. Marks, J.W. Pomeroy, A. Rowlands and N. Rutter. 2005. Modelling variability in radiative fluxes on snow surfaces beneath coniferous canopies. (abs.). In: Abstracts with Programs. AGU - San Francisco, 2005. American Geophysical Union, Washington, DC.

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

Link, T.E., K. Kavanagh, J. Marshall, H. Han, J. Braatne, W. Chung, K. Humes, R. Qualls, J. Boll, E. Brooks, A. Hudak, J. Evans, J. Gravelle, J. Hubbard, A. Warnsing, E. Du, W. Elliot, and T. Cundy. 2005. The Mica Creek Experimental Watershed: An Outdoor Laboratory for the Investigation of Coupled Hydrological and Ecological Processes. Headwaters Research Consortium, November 17 & 18, 2005, Corvallis, Oregon.

Broglio, J., T.E. Link, J. Braatne, and J.A. Gravelle. 2005. Impacts of forest harvest on aquatic macroinvertebrate community composition in a northern Idaho watershed. Headwaters Research Consortium, November 17 & 18, 2005, Corvallis, Oregon.

Gravelle, J.A., and T.E. Link. 2005. Influence of Timber Harvesting on Water Temperatures in a northern Idaho watershed. 2005. Impacts of forest harvest on aquatic macroinvertebrate community composition in a northern Idaho watershed. Headwaters Research Consortium, November 17 & 18, 2005, Corvallis, Oregon.

Hubbart, J.A., T.E. Link, J.A. Gravelle, and W.J. Elliot. 2005. Forest Harvest Impacts on the Hydrologic Yield of a Mountainous Watershed in the Continental/Maritime Hydroclimatic Region. Headwaters Research Consortium, November 17 & 18, 2005, Corvallis, Oregon.

Brooks, E.S., J. Boll, J. Hubbard, T.E. Link, and T. Cundy. 2005. Long-term continuous GIS-based modeling of forest land use changes in Mica Creek watershed in northern Idaho. The American Society of Agricultural Engineers, Annual International Meeting, July 17-20, 2005, Tampa, Florida.

Tarboton, D.G., W.P. Johnson, D. Marks, C. Luce, and T.E. Link. 2005. The Great Salt Lake Basin hydrologic observatory – A community research platform for mountain climate sciences. MTNCLIM 2005: Anticipating Challenges to Western Mountain Ecosystems and Resources, March 1-4, 2005, Pray, Montana.

Link, T., K. Kavanagh, J. Marshall, J. Braatne, H.-S. Han, T. Cundy, W. Chung and S. Daley-Laursen. 2005. Collaborative watershed studies of ecosystem responses to current forest harvest practices in the Rocky Mountains, USA. 5th National Conference on Science, Policy and the Environment: Forecasting Environmental Changes, National Council for Science and the Environment, February 3-4, 2005 Washington, DC.

Chauvin, G., G.N. Flerchinger, D. Marks, and T.E. Link. 2004. A Water Balance Approach to Characterizing the Hydroclimatology of a Mountainous Semi-arid Catchment (abs.). In: Abstracts with Programs. AGU - San Francisco, 2004. American Geophysical Union, Washington, DC.

Link, T.E., J. Gravelle, J. Hubbard, A. Warnsing, E. Du, J. Boll, E. Brooks, J. Evans, A. Hudak, and T. Cundy. 2004. The Mica Creek Experimental Watershed: An Outdoor Laboratory for the Investigation of Hydrologic Processes in a Continental/Maritime Mountainous Environment (abs.). In: Abstracts with Programs. AGU - San Francisco, 2004. American Geophysical Union, Washington, DC.

Reba, M.L., D. Marks, T.E. Link, and A. Winstral. 2004. Eddy covariance (EC) over snow in a mountainous environment to determine sensible and latent heat and mass fluxes. (abs.) In: Abstracts with Programs. AGU - San Francisco, 2004. American Geophysical Union, Washington, DC.

Hardy, J.P., D. Marks, T.E. Link, and G. Koenig. 2004. Variability of the below canopy thermal structure over snow (abs.). In: Abstracts with Programs. AGU - San Francisco, 2004. American Geophysical Union, Washington, DC.

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

Hubbart, J.A. and T.E. Link. 2004. Air temperature lapse rate dynamics in a snow-dominated mountainous watershed (abs.). In: Abstracts with Programs. AGU - San Francisco, 2004. American Geophysical Union, Washington, DC.

Essery, R.E., D. Marks, J. Pomeroy, R. Granger, M. Reba, N. Hedstrom, T.E. Link, and A. Winstral. 2004. Variations in below canopy turbulent flux from snow in North American mountain environments (abs.). In: Abstracts with Programs. AGU - San Francisco, 2004. American Geophysical Union, Washington, DC.

Keim, R.F., M. Weiler, T.E. Link, and A.E. Skaugset. 2004. Spatial and temporal transformations of precipitation by forest canopies. 8th International Conference on Precipitation, Vancouver, B.C., August 8-11.

Link, T.E., D. Marks, J. Pomeroy, A. Winstral, J. Hardy, M. Seyfried, G. Flerchinger, R. Essery, and J. Sicart. 2004. Characterizing snow deposition, snowcover energetics, and melt from plot to catchment scale in mountain basins (abs.). In: Abstracts with Programs: AGU-CGU Joint Assembly – Montreal, Canada, 2004. American Geophysical Union, Washington, DC.

Link, T.E., D. Marks, J. Pomeroy, J. Hardy, A. Rowlands, and J. Sicart. 2004. Small-scale spatial variability of sub-canopy radiant energy during snowmelt (abs.). In: Abstracts with Programs: AGU-CGU Joint Assembly – Montreal, Canada, 2004. American Geophysical Union, Washington, DC. *Invited Presentation.*

Link, T.E., M.J. Tribbeck, D. Marks, and A. Winstral. 2003. Intercomparison of 2 models to simulate snowcover dynamics beneath forest canopies (abs.). In: Abstracts with Programs. AGU - San Francisco, 2003. American Geophysical Union, Washington, DC.

Pypker, T.G., B.J. Bond, T.E. Link, and M.H. Unsworth. 2003. How Does Canopy Structure Influence Interception and Canopy Storage of Rainfall in Young and Old Douglas-Fir Forests? (abs.). In: Abstracts with Programs. AGU - San Francisco, 2003. American Geophysical Union, Washington, DC.

Keim, R.F., A. Skaugset, M. Weiler, and T.E. Link. 2003. Persistent spatial variability of throughfall amounts and intensity beneath forest canopies (abs.). In: Abstracts with Programs. AGU - San Francisco, 2003. American Geophysical Union, Washington, DC.

Marks, D., A. Winstral, and T.E. Link. 2003. Influence of terrain and vegetation canopies on snowcover energetics during melt, International Union of Geodesy and Geophysics General Assembly, June 30 -July 11, 2003, Sapporo, Japan.

Hardy, J., R. Melloh, G. Koenig, J. Pomeroy, D. Marks, and T.E. Link. 2003. Solar radiation transmission through conifer canopies, International Union of Geodesy and Geophysics General Assembly, June 30-July 11, 2003, Sapporo, Japan. *Invited Presentation.*

Keim, R.F., T.E. Link, and A.E. Skaugset. 2003. Stochastic effects of forest canopies on extreme

precipitation events and initiation of shallow landslides. Joint European Geophysical Society/American Geophysical Union Spring Meeting, April 7-11, 2003, Nice, France. Winner, Best Student Presentation.

Link, T.E., M. Unsworth, and D. Marks. 2002. The interception dynamics of a seasonal temperate rainforest. Pacific Northwest Regional Water Quality Conference, February 20-21, 2002, Vancouver, Washington.

Professional Meeting Papers, Workshops, Showings, Recitals (cont.):

Link, T.E., M. Unsworth, D. Marks, and G. Flerchinger. 2001. Simulation of water and energy fluxes in an old growth seasonal temperate rainforest using the Simultaneous Heat and Water (SHAW) model (abs.). In: Abstracts with Programs. AGU - San Francisco, 2000. American Geophysical Union, Washington, DC. INVITED PRESENTATION.

Link, T.E., M. Unsworth, D. Marks, and G. Flerchinger. 2000. Measurement and modeling of hydrologic processes in relation to the carbon exchange of a seasonal temperate rainforest (abs.). In: Abstracts with Programs. AGU - San Francisco, 2000. American Geophysical Union, Washington, DC.

Marks, D., T.E. Link, A. Winstral, and D. Garen. 2000. Simulating snowmelt processes during rain-on-snow over a semi-arid mountain basin. International Symposium on Snow, Avalanches, and Impact of the Forest Cover, May 22-26, 2000, Innsbruck, Austria. Invited Presentation.

Link, T.E., M. Unsworth, D. Marks, and G. Flerchinger. 1999. Measurement and modeling of hydrologic processes within an old growth forest ecosystem (abs.). In: Abstracts with Programs. AGU - San Francisco, 1999. American Geophysical Union, Washington, DC.

Waichler, S.R., B. Jacob, and T.E. Link. 1999. Supporting an emerging academic water resources community with the WWW. Proceedings of the Symposium on Water Resources and the WWW, American Water Resources Association. Seattle, Washington, December 5-9, 1999. <http://www.awra.org/proceedings/www99/w17/index.htm>.

Link, T.E. and D. Marks. 1998. Point and distributed simulation of snowcover mass- and energy-balance in the boreal forest (abs.). In: Abstracts with Programs. AGU - San Francisco, 1998. American Geophysical Union, Washington, DC. Invited Presentation.

Marks, D., J. Domingo, D. Garen, and T.E. Link. 1998. Simulation of snowcover development and ablation over a mountain basin with correction for forest canopy effects (abs.). In: Abstracts with Programs. AGU - San Francisco, 1998. American Geophysical Union, Washington, DC.

Link, T.E., D. Marks, and M. Price. 1997. Simulating snowpack deposition and ablation beneath boreal forest canopies: Results from point and distributed snowcover energy balance simulations (abs.). In: Abstracts with Programs. AGU - San Francisco, 1997. American Geophysical Union, Washington, DC.

Risley, J., D. Marks, and T.E. Link. 1997. Application of a quasi-energy balance model to simulate snowmelt under variable canopies during a major rain-on-snow event (abs.). In: Abstracts with Programs. AGU - San Francisco, 1997. American Geophysical Union, Washington, DC.

Susong, D., D. Marks, T.E. Link, and D. Garen. 1997. Developing time-series climate surfaces to drive topographically distributed energy and water balance models (abs.). In: Abstracts with Programs. AGU - San Francisco, 1997. American Geophysical Union, Washington, DC.

Grants and Contracts Awarded:

2014. Robert Keefe and Timothy Link, Design of a monitoring study, QAPP, and SOP for evaluating the effectiveness of Idaho's new Class I stream shade rule, Idaho Dept. of Environmental Quality, \$79,992.
2013. Jan Boll, Brian Kennedy, Timothy Link, Manoj Shrestha, and John Tracy. IGERT: Adaptation to change in water resources: science to inform decision-making across disciplines, cultures and scales. National Science Foundation, \$3,099,997.

Grants and Contracts Awarded (cont.):

2013. Douglas Shinneman, Timothy Link, Kathleen Kavanagh, Eva Strand, Susan McIlroy, Scott Powell, Robert Scheller, John Campbell, Daniel Marks, Mark Seyfried, and Adam Winstral, Projecting climate change effects on aspen distribution and productivity in the central and northern Rockies by coupling hydrological and landscape-disturbance models, USGS Northwest Climate Science Center, \$476,295.
2013. Jessica Lundquist, Jim Lutz, Susan Dickerson-Lange, Anne Nolin, Timothy Link, Amy Snover, Rolf Gersonde, and Steve Malloch. Forest Management Tools to Maximize Snow Retention under Climate Change, USGS Northwest Climate Science Center, \$199,849.
2013. Andy Hudak, Terrie Jain, John Byrne, John Marshall, Timothy Link, and Katy Kavanagh. Effects of forest management and succession on long-term carbon and water budgets. USDA Forest Service, Western Wildlands Environmental Threat Assessment Center, \$86,457.
2011. Timothy Link. Modeling snow, soil moisture, and streamflow impacts on water, soil, and vegetation resources in semi-arid basins, add-on. USDA-ARS Northwest Watershed Research Center, \$22,000.
2010. Katy Kavanagh, Herbert Hess, Timothy Link, Beth Newingham, and Alistair Smith. MRI: Development of a smart 3-D wireless sensor network for terrain-climate research in remote mountainous environments. NSF-DBI, \$563,326.
2010. Timothy Link. Modeling snow, soil moisture, and streamflow impacts on water, soil, and vegetation resources in semi-arid basins, add-on. USDA-ARS Northwest Watershed Research Center, \$12,000.
2009. Timothy Link. Benton dam data archiving. USFS-RMRS, \$10,000.
2009. Timothy Link. Modeling snow, soil moisture, and streamflow impacts on water, soil, and vegetation resources in semi-arid basins. USDA-ARS Northwest Watershed Research Center, \$16,271.
2009. Timothy Link, Peter Goodwin, Danny Marks, and Jim McNamara. Collaborative Research: A WATERS testbed to investigate the impacts of changing snow conditions on hydrologic processes in the western United States. NSF-CBET, \$502,553 (UI Component: \$250,517).
2007. Noah Molotch, William Yeh, Steven Fassnacht, and Timothy Link, Scaling Snow Observations from the Point to the Grid Element: Supporting NOHRSC's National Snow Analysis System. NOAA-NWS, \$375,000.
2006. Timothy Link, Impact of forest treatments and climate change on hydrologic regimes: Assessment of mechanisms that affect hydrologic alteration. USDA National Research Initiative, Presidential Early Career Award for Scientists and Engineers, \$175,000.
2006. Timothy Link, Radiation Climatology of Forest Gaps: Development of a Mechanistic Model to Enhance Hydrologic Flows and Reduce Wildland Fire Hazards. UI College of Natural Resources McIntire-Stennis Grant, \$83,785.

2005. Timothy Link, Jeff Braatne, Paul Gessler, Han-Sup Han, Kathleen Kavanagh, John Marshall, and Andrew Robinson, University of Idaho: Collaborative Working Forests. U.S. Forest Service, \$272,300.
2005. Timothy Link, Stuart Hardegree, Danny Marks, Mark Seyfried, Steve Bunting, Fred Pierson, and Adam Winstral, Great Basin Restoration Initiative Remote Sensing Project. USDA ARS Northwest Watershed Research Center, BLM Owyhee Uplands Project, Utah State University, and the Natural Resources Conservation Service, \$152,973.

Grants and Contracts Awarded (cont.):

2004. Timothy Link, Jeff Braatne, Paul Gessler, Han-Sup Han, Kathleen Kavanagh, John Marshall, and Andrew Robinson, University of Idaho: Collaborative Working Forests. U.S. Forest Service, \$243,000.
2003. Andrew Robinson and Timothy Link. Developing, improving, and linking tree-level models of crown dynamics for the projection of stand-level hydrological processes. UI College of Natural Resources McIntire-Stennis Grant, \$50,997.
2003. Timothy Link, Paul Gessler, Han-Sup Han, Kathleen Kavanagh, John Marshall, and Andrew Robinson, Managed Forests as Productive Systems: A Research and Education Initiative. U.S. Forest Service, \$346,000.
2003. Timothy Link, Impact of forest treatments and climate change on hydrologic regimes. USDA National Research Initiative Competitive Grants Program, \$259,614.
2003. Danny Marks, John Pomeroy, Timothy Link and Janet Hardy. Influence of sub-grid variability on snow deposition and ablation in North American mountain environments: Implications for upscaling to meso-scale representations. NOAA Office of Global Programs, UI component: \$161,000, Project total: \$330,000.
2003. Jan Boll & Timothy Link, Modeling cumulative effects of hillside disturbances at a watershed scale. USFS Rocky Mountain Research Station, \$191,000.
2002. Timothy Link & Jeff Braatne. Comparative investigations of riparian microclimates. University of Idaho Seed Grant Program, \$9980.
2002. Timothy Link, University of Idaho Small Travel Grant. \$890.

As Senior Personnel:

- 2013-2018. Howard Wheeler et al. **Changing Cold Regions Network (CCRN)**. Natural Sciences and Engineering Research Council of Canada (NSERC), Climate Change and Atmospheric Research (CCAR) Initiative, \$5,000,000 CDN.
- 2010-2015. Alexander Fernald et al. CNH: Acequia Water Systems Linking Culture and Nature: Integrated Analysis of Community Resilience to Climate and Land-Use Changes. National Science Foundation, \$1,400,892.
- 2008-2013. Jean'ne M. Shreeve, Gregory Bohach, and Von Walden. Idaho EPSCoR RII: Water Resources in a Changing Climate. National Science Foundation (RII), \$15,000,000.
- 2007-2010. H. G. Frede, L. Breuer, and K. Vaché. Matter fluxes in Inner Mongolia as influenced by stocking rate (MAGIM). Deutsche Forschungsgemeinschaft, 2,900,000 €.
- 2006-2011. John W. Pomeroy, S. Carey, R. Essery, R. Granger, M. Hayashi, R. Janowicz, P. Marsh, S.

Munro, A. Pietroniro, W. Quinton, K. Snelgrove, R. Soulis, C. Spence, and D. Verseghy. IP3: Improved Processes and Parameterisation for Predictions in Cold Regions, Canadian Foundation for Climate and Atmospheric Sciences, \$2,500,000 CDN.

2005-2008. Jean'ne M. Shreeve, Gregory Bohach, and Peter Goodwin. Idaho Research Infrastructure Improvement. National Science Foundation (RII), \$9,000,000.

2004-2007. Jan Boll, J. D. Wulfhorst, Murat Isik, and Robert Mahler. Evaluation of Conservation Practices in a Mixed-Land Use Watershed using Cumulative Effects Modeling and Interdisciplinary Analyses. USDA Conservation Effects Assessment Project (CEAP), \$600,000.

Education and Program Development Grants Awarded:

2008. Robert Mahler, Jan Boll, Susan Childers, Kathleen Kavanagh, Timothy Link, John Marshall, Matt Morra, Christopher Peery, Barbara Williams, Frank Wilhelm. REU Site: Summer Research Experience for Undergraduates in Sustainable Water Resources. National Science Foundation, \$336,000.

2007. Timothy Link, Jan Boll, Maxine Dakins, Chad Hoffman, Edwin Krumpe, Penelope Morgan, Ron Robberecht, and David Schlater. Application of Lecture Capture Technology (LCT) to Expand Degree Programs, Enhance Teaching and Learning and Transform Curricula. Idaho State Board of Education Technology Incentives Grant Program, \$80,000.

2006-2011. Jan Boll, Barbara Cosens, Fritz Fiedler, Timothy Link, Patrick Wilson, Gary Johnson, Markus Tuller, Brian Kennedy, and Chuck Harris, Water of the West: Towards a Sustainable, Interdisciplinary Water Resources Program. University of Idaho President's Strategic Initiative, \$1,666,358.

2005-2008. Fritz Fiedler, Kathleen Kavanagh, Jan Boll, Stephanie Hampton, Timothy Link, John Marshall, Christopher Peery, Markus Tuller, Barbara Williams, and J.D. Wulfhorst, Summer Research Experience for Undergraduates in Water Resources. National Science Foundation, \$350,000.

2002. Bob Mahler, Pat Wilson, Scott Wood, Marcus Tuller, Jan Boll, Timothy Link, Jeff Braatne, Barbara Williams, Karen Humes, and Mike Falter. Use of the web to enhance existing and develop new water-based courses to improve both campus and distance-based programs offered by the University of Idaho. Idaho State Board of Education, \$195,880.

As Supporting Collaborator:

2013. Gayle Dana, Sajjad Ahmad, Frederick Harris, and Thomas Jackman. Collaborative Research: The Western Consortium for Watershed Analysis, Visualization, and Exploration (WC-WAVE), National Science Foundation, EPSCoR, \$2,000,000

2008. Peter Goodwin, Steven Daley-Laursen, and Derek Nalle, and 23 supporting senior personnel, Pan-American Studies Institute (PASI): Human, Physical, and Natural Capital Investment in Patagonia: A Predictive Approach under the Sustainability Criterion, National Science Foundation, OISE – Americas Program, \$99,370.

2006-2008. Thorsten Wagener, Michael N. Gooseff, Lucy A. Marshall, Brian L. McGlynn, Priya Sharma, and 33 collaborators, Modular Curriculum for Hydrological Advancement - Toward an Online Faculty Learning Community for Hydrology Education, National Science Foundation, CCLI, \$149,205.

Honors and Awards:

Outstanding Advisor, College of Natural Resources, University of Idaho, 2012

Presidential Early Career Award for Scientists and Engineers (PECASE), USDA-CSREES National Research Initiative, 2003.

SERVICE:

Major Committee Appointments:

Chair, Tenure and Promotion Committee, Dept. of Forest, Rangeland, and Fire Sciences, 2014.
 Graduate Council, University Wide Programs representative, 2014.
 T&P committee for Dr. Robert Heinse. Department of Plant, Soils, and Entomological Sciences, 2014.
 University Promotions Committee. 2012. 41 tenure and promotion portfolios.
 Department of Forest, Rangeland, and Fire Science, Third year review committee for Dr. Phil Higuera. 2012.
 Department of Plant, Soils, and Entomological Sciences, Third year review committee for Dr. Robert Heinse. 2012.

Major Committee Appointments (cont.):

Department of Geography Tenure and Promotions Review Committee for Dr. Jeff Hicke. 2011.
 University Promotions Committee. 2011. 43 tenure and promotion portfolios.
 Graduate Council, alternate College of Natural Resources Representative. Fall 2010 - Spring 2013.
 Science, Technology, Engineering, Mathematics (STEM) P-20 Taskforce. Spring 2010.
 Graduate Council, at-large member. Fall 2007 - Spring 2010.
 Member: Idaho SNOTEL Advisory Board. 2009-present.
 Responsible Conduct of Research, advisory committee member. 2007.
 Member, Provost's Strategic Action Plan Implementation Team, Scholarly and Creative Activity. 2007-2008.
 CNR Committee on Committees. Chairperson. 2007 - 2010.
 Facilitator, CNR faculty vision session, Jan. 19, 2007
 Curriculum Committee, CNR Ecology & Conservation Biology Program. 2006-present.
 Departmental Design Team, Forest Resources, Rangeland Ecology & Management merger strategies, 2005-06
 University of Idaho Water Resources Steering Committee, 2001-present
 Search Committee Member:
 Assistant Professor of Ecosystem Modeling. 2014.
 Head of Department of Forest, Rangeland, and Fire Sciences. 2012.
 Assistant Professor of Ecosystem Services Economics. 2011.
 Assistant/Associate Professor of Fluvial Geomorphology. Spring 2007.
 Assistant Professor of Fire Science and Management. Spring 2007.
 Assistant Professor of Soil Physics. Fall 2007/Spring 2008.
 Assistant Professor of Fire Science and Management, Fall 2006-Spring 2007
 Research Scientist III, Department of Forest Resources, Fall 2005
 Ecohydrology post-doctoral fellow, Department of Forest Resources, Spring 2005
 Aquatic ecology post-doctoral fellow, Department of Fish and Wildlife, Spring 2005
 Assistant Professor of Limnology/Aquatic Ecology, Spring 2004
 Mentoring Committees:
 Dr. Alistair Smith, Associate Professor, College of Natural Resources, University of Idaho.
 Dr. Luigi Boschetti (chair), Associate Professor, College of Natural Resources, University of Idaho.
 Dr. Jan Eitel (chair), Researcher in Residence, College of Natural Resources, University of Idaho.

Professional and Scholarly Organizations:

American Geophysical Union, member, 1996-present
 Cryosphere Section Executive Committee, 2006-present
 Secretary, AGU Cryosphere Focus Group Executive Committee 2006-2010
 American Institute of Hydrology, 2000-present
 American Water Resources Association, 2002-present
 North American Benthological Society, 2006-present
 Society of American Foresters, member, 2002-present

Technical Reviews:

Proposal Review Panel:

NASA Snow Science Panel, April 2014.
 NASA Energy and Water Study (NEWS), NASA Terrestrial Hydrology Program (NTHP),
 September 2005.

Proposal Reviewer:

Canadian Foundation for Climate and Atmospheric Sciences (CFCAS)
 Comisión Nacional de Investigación Científica y Tecnológica (CONICYT), Chile
 Future Forest Ecosystems Scientific Council of British Columbia (FFESC)
 NASA Earth Systems Science Fellowship Competition

Proposal Reviewer (cont.):

National Fish and Wildlife Foundation (NFWF)
 National Science Foundation (NSF)
 Natural Sciences and Engineering Research Council of Canada (NSERC)
 Nevada Agricultural Experiment Station (NAES) Priority Grant Program
 Stillinger Funds for Forestry & Botanical Research
 Sustainable Forest Management Network (SFMN), Canada
 Swiss National Science Foundation
 USDA-CSREES National Research Initiative (NRI)

Book Proposal Reviewer:

Cambridge University Press

Manuscript Reviewer:

Advances in Water Resources
 Agricultural and Forest Meteorology
 Annals of Forest Science
 ASCE Journal of Hydrologic Engineering
 Atmosphere-Ocean
 Canadian Journal of Forest Research
 Earth System Science Data
 Ecohydrology
 Ecological Modelling
 Environmental Modelling and Software
 Environmental Research Letters
 Forest Science
 Forest Ecology and Management
 Hydrological Processes
 Hydrology and Earth System Sciences
 International Association of Hydrologic Sciences (IAHS) Red Books
 Journal of the American Water Resources Association
 Journal of Geophysical Research – Atmospheres
 Journal of Geophysical Research – Biogeosciences
 Journal of Hydrology
 Journal of Hydrometeorology
 Methods in Ecology and Evolution
 Physical Geography
 PLOS ONE
 Remote Sensing of Environment
 Soil Science Society of America Journal
 Transactions of the American Society of Agricultural and Biological Engineers
 Water Resources Research

Report Reviewer

Future Forest Ecosystems Scientific Council of British Columbia (FFESC)

Tenure and Promotion External Referee
 Virginia Tech, College of Natural Resources, 2013.
 Colorado State University, Fall 2012

Professional Meeting Organization

Session Convener, AGU Special Session on Snow Hydrology: Flooding, Modeling, and Vegetation Interactions, 2014 Fall Meeting.

Participant, NSF - sponsored workshop: Design of Global Environmental Gradient Experiments using International CZO Networks. Newark, DE, November 8-10, 2011.

Professional Meeting Organization (cont.)

Break-out Session Leader, International Association of Hydrological Sciences, Predictability in Ungauged Basins (PUB) 2011: 'P3' Putting PUB into Practice Workshop, Canmore, Alberta, May 10-14, 2011.

Session Facilitator, Integrated and interdisciplinary Modeling for Water-Related Issues. Tri-State EPSCoR Consortium Meeting, Santa Ana Pueblo, NM, April 6-8, 2011.

Participant, SAHRA & NCAR - sponsored workshop: Progress, Challenges, and Priorities in Predicting the Water Cycle in Complex Terrain, Biosphere 2, Oracle, AZ, February 23-25, 2011.

Session Convener, AGU Special Session on Seasonal Snow Covers in a Changing Climate: Implications for Hydrological, Biogeochemical, and Ecological Processes, 2010 Fall Meeting

Session Convener, AGU Special Session on Innovations in Modeling of the Seasonal Snowpack and Interactions Between Vegetation and Snow, 2009 Fall Meeting

Session Convener, AGU Special Session on Monitoring, Measuring, and Modeling Snow Processes, 2008 Fall Meeting

Session Convener, AGU Special Session on Snowpack Dynamics in a Changing Climate, 2007 Fall Meeting

Session Convener, AGU Special Session on Snowcover-Vegetation Interactions, 2006 Fall Meeting

Participant, Summit on Forest Research for the 21st Century: Defining Strategic Directions and Rebuilding

Capacity, National Association of University Forest Resource Programs (NAUFRP), Shepherdstown, WV, January 4-6, 2006.

Session Convener, AGU Special Session on Snow Hydrology, 2004 Fall Meeting.

Consultant. Third World Center for Water Resource Management, Mexico City, Mexico, 2000-2001.

Session Convener, AGU Special Session on Snow Hydrology, 2000 Fall Meetings.

Officer, Joint AWRA/AIH OSU Campus Chapter, 1998-2000.

Organized student field trips focused on snow hydrology, water management and environmental issues on the Columbia River system, urban hydrology and water quality issues, and rangeland riparian assessments. Organized monthly hydrology and water resources seminars. Co-created web-searchable student, faculty and course databases for the OSU water resources community.

Outreach Services:

Tour Organizer:

Reynolds Creek Critical Zone Observatory. Technical field tour for IGERT annual meeting participants and stakeholders. September 21, 2014. 34 participants.

Mica Creek Experimental Watershed. Technical Field Tour for SAF Annual Convention, Spokane, WA. Oct. 24, 2012.

Environmental Educator for Outdoor Adventure River Specialists (O.A.R.S). Delivered lectures and coordinated field exercises on climatology, meteorology, geomorphology, hydrology, water quality, ecohydrology, stream gauging. Middle Fork of the Salmon River, May 28-June 2, 2012.

Environmental Educator for Outdoor Adventure River Specialists (O.A.R.S). Delivered lectures and coordinated field exercises on climatology, meteorology, geomorphology, hydrology, water quality, ecohydrology, stream gauging. Main Salmon River, May 27-June 2, 2011.

25 commercial river guide participants.
 Mica Creek Experimental Watershed, tour for U. S. Forest Service managers. Sep. 10, 2009.
 26 student and agency participants.
 Mica Creek Experimental Watershed, tour for University of Idaho alumni: Celebrating 100
 years of forestry education. Sep. 12, 2009. 9 alumni participants.
 Reynolds Creek Experimental Watershed, September 21, 2006.
 Mica Creek Experimental Watershed, tour for forest engineers, August 3, 2006, 7 academic and
 agency participants.
 Mica Creek Experimental Watershed, tour for university forest hydrologists and ecologists, June
 29, 2006, 24 academic and agency participants.

Tour Organizer (cont.):

Mica Creek Experimental Watershed. Idaho Association of Natural Resources and Community
 Development Extension Professionals (IANRACDEP), July 2005, ~40 extension
 professionals.
 Mica Creek Experimental Watershed Outreach Tour Leader, July 13, 2004, 30 professional and
 academic participants.

Tour Participant:

The Mica Creek Experimental Watershed. Technical field tour for University of Idaho and
 forest industry leadership. July 21, 2014. 32 participants.
 Russell Creek Research Basin, Vancouver Island, British Columbia, Canada. Forest hydrology
 tour for ~30 industry and agency personnel, September 20, 2006.
 Priest River Experimental Forest, tour for delegation from New Mexico, June 27, 2006
 UI representative: Mica Creek Experimental Watershed tour for Ben Ysursa, Idaho Secretary of
 State, August 4, 2005.

Technical Panelist:

U. S. Fish and Wildlife Service Wolverine Science Workshop. Spokane, WA. Apr. 3-4, 2014.
 Synthesis of snow and climate change science as part of an expert panel that was
 assembled to address potential concerns regarding the listing of wolverines under the
 Endangered Species Act.

Technical Outreach Consultant:

Miscellaneous forest hydrology issues, Idaho Conservation League, 2005-present.

Hydrologic effects of forest fire hazard reduction treatments, Nez Perce Soil and Water
 Conservation District, 2005.

Technical peer-review:

USFS Cumulative Watershed Effects of Fuel Management workshop, April 5-6, 2005, Salt Lake
 City, Utah.

Technical presenter:

Forest Practices Act Advisory Committee (FPAAC), April 19, 2007, Boise, ID.

Technical comment:

Forest Stewardship Council (FSC) audit for Potlatch Corporation, July 15, 2003.

Technical advisor:

Matter fluxes in Inner Mongolia as influenced by stocking rate (MAGIM). Invited field visit:
 Inner Mongolia Grassland Ecosystem Research Station (IMGERS), Xilinhot, China, June
 10-13, 2009.
 USFS Rocky Mountain Research Station, Soil & Water Engineering Group, Technical Advisory
 Visit, July 8, 2003, Moscow, Idaho.

Stakeholder panels:

Stakeholder review panel: USDA Agricultural Research Service, Northwest Watershed Research Center, January 9, 2007, Boise, ID.
 Participant, Summit on Forest Research for the 21st Century: Defining Strategic Directions and Rebuilding Capacity, National Association of University Forest Resource Programs (NAUFRP), Shepherdstown, West Virginia, January 4-6, 2006.
 USDA Agricultural Research Service, Northwest Watershed Research Center, September 21, 2005, Boise, Idaho.
 USFS research logic model meeting, February 2, 2005, Riverside, California.

Participant:

Pan-American Studies Institute: Human, Physical, and Natural Capital Investment in Patagonia: A Predictive Approach under the Sustainability Criterion, August 10-22, 2009, Concepcion, Chile.
 Northern Rocky Mountains Ecological Observatory (NoRMEO) planning meetings, 2005-present.
 EPSCoR research exchange to New Mexico – Sevilleta Long Term Ecological Research Site, Valles Caldera National Preserve, and Los Alamos National Laboratory, September 2005.

Public Presentations:

“Climate change in north Idaho: The snow and flow story” North Idaho Climate Action Network Speaker Series. October 29, 2014. 40 participants.
 “Analyzing the effects of modern forest harvest practices.” Presentation to the Moscow Rotary Club. September 20, 2004.

Press Articles and Interviews:

“Science Graphic of the Week: Map Shows Western U.S. May Suffer Huge Reductions in Snow”. Summary of Klos et al., 2014 GRL paper. Betsy Mason, Wired Magazine. August 14, 2014. >1600 social media postings. <http://www.wired.com/2014/08/science-graphic-of-the-week-rain-snow-transition/>
 “Wolverine Wipeout”. Quoted on the USFWS decision on the ESA listing of wolverines. John Upton, Wonk on the Wildlife blog. August 12, 2014. <http://wonkonthewildlife.com/wolverine-wipeout/>
 “Snow-Covered Mountains Will Become Waterfalls”. Summary of Klos et al., 2014 GRL paper. John Upton, Pacific Standard Magazine. June 25, 2014. <http://www.psmag.com/navigation/nature-and-technology/snow-covered-mountains-will-become-waterfalls-84321/>
 “Forest Snow Can Melt Faster Than Flakes In Open Fields”. Interview for Inside Science News Service regarding recent snow hydrology publications by collaborators at University of Washington, Dec. 20, 2013.
 “Scratching the Surface”. Interview for Sierra Magazine regarding snow structure and ecology, Jan/Feb 2012.
 “Snowpack and Timber”, top story on AgDay television magazine, aired on 123 stations nationwide. April 7, 2009.
 “Woods and Water” USDA Partners Video Magazine, “Fluid Planet” Episode 22. January 2009.
 “Region's universities test podcasting: Professors using new technologies to connect” Spokesman Review, Spokane, WA. February 25, 2007. Interview regarding use of lecture-capture technologies in education.
 USDA NRI Project Featured in National Research Initiative Competitive Grants Program Annual Report, Fiscal Year 2005, http://www.csrees.usda.gov/funding/nri/pdfs/2005_ann_report.pdf.
 “TPL Research Gallery” quoted in Land & People, v. 18, n. 1, Trust for Public Lands, Spring 2006.
 “Mica Creek measures up; Potlatch Corp. and UI rewarded with influx of federal funds for

watershed research.” Interview regarding coupled hydrological/ecological research at UI. Moscow-Pullman Daily News, June 25, 2005.

“Watery wonders” interview regarding waterfall microclimates. Lewiston Morning Tribune, June 2, 2005.

“Watershed science as a catalyst for interdisciplinary research”, UI College of Natural Resources alumni magazine article, April 2005.

Grant helps research on logging practices: Effects of modern techniques studied. Lewiston Morning Tribune, September 19, 2004.

Research at the Mica Creek Experimental Watershed. Radio interview for Inland Journal, Spokane Public Radio, September 16, 2004.

“Grant will help UI explore impact of logging.” Spokesman Review, September 16, 2004.

Press Articles and Interviews (cont.):

“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.

“Neighbors in the Spotlight.” Article regarding PECASE award. The Idaho Statesman, Boise, ID. November 15, 2003.

Miscellaneous:

Central Region Winner, Ben & Jerry’s Do Us a Flavor Contest, ‘Mojito’.

PROFESSIONAL DEVELOPMENT:

Scholarship:

Academic Leadership: A Seminar for Faculty Considering or Continuing in Academic Leadership Roles. Transformational Leadership & Training (TiLT) Program, October 24, 2009

“Write Winning Grants,” Grant Writers’ Seminars and Workshops, August 2002.