CURRICULUM VITAE - 6/19 Jeffrey J. McDonnell, PhD, DSc, FRSC

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EDUCATION

- 1989 **Ph.D., Forest Hydrology**. University of Canterbury, Christchurch, New Zealand. Thesis: "The age, origin and pathway of subsurface stormflow in a steep humid headwater catchment", 270p.
- 1985 M.Sc., Watershed Ecosystems Graduate Program, Trent University, Peterborough, Canada.
 Thesis: "Snowcover ablation and meltwater runoff on a small Precambrian Shield watershed", 127p.
- 1983 **B.Sc. (Honors), Physical Geography** (now Physical & Environmental Sciences), University of Toronto, Toronto, Canada.

 Thesis: "Storm waves, sediment flux and beach morphodynamics in a barred nearshore zone, Wymbolwood Beach, Ontario", 110p.

REGISTRATION

1999- P.H., Registered Professional Hydrologist (reg'n #1506), American Institute of Hydrology.

PROFESSIONAL EXPERIENCE

2012-	Professor, School of Environment and Sustainability; Associate Director
	(International), Global Institute for Water Security, University of Saskatchewan,
	Saskatoon, Saskatchewan.
1999-2012	Richardson Chair in Watershed Science (1999-12); University Distinguished
	Professor (2009-12), Department of Forest Engineering, Resources and
	Management; Director (2010-12), Institute for Water and Watersheds, Oregon
	State University, Corvallis Oregon.
1993-99	Associate Professor (1993-97); Professor (1997-99), SUNY College of
	Environmental Science and Forestry, Syracuse, New York.
1989-93	Assistant Professor, Department of Forest Resources, Utah State University,
	Logan Utah.
1989-90	Research Hydrologist, NASA Marshall Space Flight Center, Universities Space

CURRENT VISITING POSITIONS

University Distinguished Professor (adjunct), Oregon State University, USA Visiting Chair in Water Sciences, University of Birmingham UK Distinguished Visiting Professor, Tsinghua University, China

Research Assoc., Huntsville, Alabama.

Distinguished Visiting Professor, Beijing Forestry University, China Distinguished Visiting Professor, Ludong University, China Adjunct Professor, University of the Sunshine Coast, Australia

HONORS and AWARDS

2018	Distinguished Researcher Award, University of Saskatchewan
2017	Leonardo Lecture, European Geophysical Union, EGU Leonardo Conference,
	Saig, Germany
2016	Gallagher Lecturer, Department of Geoscience, University of Calgary, Alberta
2016	International Hydrology Prize (Dooge Medal), International Association of
	Hydrological Sciences/UNESCO/World Meteorological Organization.
2015	J.W. George Ivany Internationalization Award, University of Saskatchewan
2015	Elected to the Royal Society of Canada (Canada's National Academy of
2015	Science) Boussinesq Award Lecture, Royal Netherlands Academy of Arts and Sciences,
2015	Amsterdam, Netherlands
2015	EGU Dooge Award for best paper in <i>Hydrology and Earth System Science</i>
	"Hydrological connectivity inferred from diatom transport through the riparian
	system".
2015	Nature, 'Multimedia Editor's top picks of 2015' for "Global separation of plant
	transpiration from groundwater and streamflow"
2014	Elected Fellow, Geological Society of America
2014	Fellow, Royal Geographical Society (UK)
2013	Nannerl Keohane Distinguished Lecture and Award, UNC Chapel Hill and Duke
	University
2012	Borland Lecture Award, Hydrology Days, Colorado State University, Fort Collins
0044	CO
2011	Birdsall-Dreiss Distinguished Lecturer, Geological Society of America (50
2011	university lecture tour) EPA Scientific and Technological Achievement Award (for 2010 Nature-
2011	Geoscience paper)
2009	University Distinguished Professor, Oregon State University
2009	Doctor of Science (D.Sc), University of Canterbury
2009	John Dalton Medal, European Geosciences Union
2009	Woo Lecturer, Canadian Geophysical Union
2009	Elected Fellow, American Geophysical Union
2008	Teaching and Mentoring Award, College of Forestry, Oregon State University
2006	Frontier Lecturer, American Geophysical Union
2006	Penman Lecturer, British Hydrological Society, Durham, UK
2005	Elected Fellow and Life Member, International Water Academy, Oslo Norway
1998	Gordon Warwick Medal, British Society for Geomorphology
1995	Scientific Literacy and Information Scholar Award, State University of New York
1990	Warren Nystrom Award, Association of American Geographers
1987	Canterbury Earth Science Prize, Geological Society of New Zealand
1987	Horton Research Grant Award, American Geophysical Union
1986	Commonwealth Scholarship and Research Fellowship, New
	Zealand/Canada

OTHER PROFESSIONAL DISTINCTIONS

Named and Invited Visiting Professorships and Fellowships:	
2018-20	Distinguished Visiting Professor, Tsinghua University, Beijing, China
2018-	Adjunct Professor, University of the Sunshine Coast, Tropical Forests and People Research Centre
2018-2023	Distinguished Visiting Professor, Beijing Forestry University, Beijing, China
2018-2023	Distinguished Visiting Professor, Ludong University, Yantai, China
2017-	Honorary Professor, University of Aberdeen UK
2017-	Visiting Professor, Luxembourg Institute for Science and Technology
2016	Visiting Professor, Institute for Geological and Nuclear Science (IGNS) and University
	of Victoria, Wellington NZ
2015	CONICYT Visiting Professor, Universidad Austral de Chile
2014	Visiting Professor, University of Arizona and Biosphere-2
2013	Nannerl Keohane Distinguished Visiting Professor, University of North
	Carolina at Chapel Hill and Duke University.
2009-2017	6 th Century Chair of Hydrology, University of Aberdeen, Scotland
2009-2014	Visiting Professor, Hohai University, Nanjing China
2008-2013	Honorary Professor, Nanjing Hydraulic Research Institute, China
2009	Visiting Project Scientist, Isotope Hydrology Division, International Atomic Energy Agency, Vienna, Austria
2006-07	Fellow and Visiting Professor, Dept. Civil Engineering, Delft, The Netherlands
2006	DIG Scholar, Dept. of Geography, University of Durham.
2005	STINT Fellow, Swedish National Science Foundation, University of Stockholm.
2004	Institute for the Study of Planet Earth Speaker, University of Arizona.
2003	Gledden Fellow, Center for Environmental Fluid Dynamics, University of Western Australia.
2000	Visiting Professor, Institute of Hydrology, Freiburg University.
1999-2012	Named Chair, Richardson Chair in Watershed Science, Oregon State
1000 2012	University
1999	Leverhulme Trust Visiting Professor, Institute for Advanced Studies, Bristol
	University.
1998	Hayward Fellow, LandCare New Zealand Ltd.
1997	Invited Visiting Hydrologist, LandCare New Zealand.
1997	STA Fellow, Japan Science and Technology Agency, Japan Forestry and Forest Products Research Institute
1989	Invited Fellow, Universities Space Research Association (USRA), NASA Marshall Space Flight Center.

Journal Editorships:

2018-	Editorial Board, Frontiers in Forests and Global Change
2017-	Editorial Board, MASKANA (the multidisciplinary journal of the University of
	Cuenca).
2015-	Editorial Board, Rhyzosphere, Elsevier.

2015- 2014-16	Editorial Board, Sustainable Water Developments (Book Series), CRC Press. Editorial Board, Forest Research—Open Access, OMICS Publishing Group
2014- 2014-	Editorial Board, Wires Water, John Wiley and Sons Editorial Board, Hydro-Science and Engineering, Nanjing Hydraulic Res. Institute, China
2014-18	Associate Editor, <i>Journal of Hydrology and Hydromechanics</i> , Open access journal.
2014-	Editorial Board, Asian Journal of Geosciences, Hindawi Publishers
2012-	Editorial Board, <i>Journal of Hydrogeology and Hydrologic Engineering</i> , Sci-Technol.
2012-	Editorial Board, Water, MDPI Publishers, Switzerland
2011-	Editorial Board, Advances in Water Science (China), UNESCO
2011-	Editorial Board, International Journal of Hydrology Science and Technology Inderscience Enterprises Ltd (UK).
2007-	Editorial Board, <i>Ecohydrology</i> , John Wiley and Sons.
2006-11	Editorial Board, Geography Compass, Blackwell Publishers
2005-10	Associate Editor, <i>Hydrology and Earth System Science</i> , European Geophysical Union
2004-	Editorial Advisory Board, Forest Science and Technology, Taylor and Francis Ltd
2003-05	Associate Editor, Journal of Hydrologic Engineering, ASCE
2004-2014	Editor-in-Chief, Benchmark Papers in Hydrological Sciences, Book Series,
	IAHS Press
2004-	Senior Advisory Editor, <i>Encyclopedia of Hydrology</i> , John Wiley and Sons.
2005	Associate Editor (Rainfall-Runoff Processes), <i>Encyclopedia of Hydrology</i> , John Wiley and Sons.
1999-05	Founding Editor, <i>Hydrological Processes</i> HP <i>Today,</i> John Wiley and Sons.
1999-2006	Associate Editor, Hydrological Sciences Journal, IAHS Press.
1998-01	Editorial Advisory Board, <i>Progress in Environmental Science</i> , Edward Arnold.
1997-2007	Associate Editor, Journal of Hydrology, Elsevier Science Publishers.
1995-98	Associate Editor, Water Resources Research, American Geophysical Union
1994-	Associate Editor, <i>Hydrological Processes</i> , John Wiley and Sons.
Guest Editor	
2016	Hydrological Processes, Special Issue on Tribute to Keith Beven, (co-edited with Jake Peters, George Hornberger, Andrew Binley and Mike Kirkby).
2015	Hydrological Processes, Special Issue on Isotope Tracers in Hydrology (coedited with Kevin McGuire).
2015	Hydrological Processes, Special Issue on Hydropedology (co-edited with Henry Lin, John Nimmo and Yakov Pachepsky)
2012	Content Consultant, Hydrology Careers, Scholastic Books Inc,
2011	Content Consultant, Hydrology, Scholastic Books Inc,
2002	Hydrological Processes, Special Issue on Runoff Generation Modeling (co-edited with Stefan Uhlenbrook and Chris Leibundgut).
2001	Hydrological Processes, Special Issue on Forest Hydrology and Biogeochemistry (co-edited with Tadashi Tanaka).

Invited/Elected International Boards, Committees and Commissions:

2019-	International Advisor Board, The "Lancang-Mekong Watershed Project", Climate
0040 0000	and Water Resources Change in Mainland Southeast Asia
2019-2020 2018	Past President, AGU Hydrology Section Reviewer, Helmholtz Association of German Research Centers (Environmental
2010	Program), Leipzig
2017-18	Elected Member, AGU Council
2017-18	President, AGU Hydrology Section
2016	Chair, Editor-in-Chief Search Committee, Water Resources Research (AGU)
2015-16	Chair, AGU Fellows Selection Committee, Hydrology Section
2015-16 2014	President-Elect, AGU Hydrology Section NSERC Joint Prizes Selection Committee (for the John C. Polanyi Award,
2014	the Brockhouse Canada Prize, and the Gerhard Herzberg Canada Gold
	Medal).
2014	Scientific Advisory Board, Plant-water interlinkages in northern uplands –
	mediation of climate change". Leverhulme Trust UK
2013-17	Scientific Advisory Board, Water Institute, University of Waterloo
2014	Invited Delegate, Commonwealth Science Conference, Bangalore India
2012-	Scientific Advisory Board, TERENO (Terrestrial Environmental Observatories), Helmholtz UFZ, Germany.
2011-14	AGU Fellows Selection Committee, Hydrology Section
2011	Member, Search Committee for EPA Director of the Environmental Sciences
	Division, National Exposure Lab, Las Vegas
2010-12	Scientific Advisory Committee, German Water Science Alliance, Helmholtz UFZ,
0040	Germany.
2010-	Science Advisory Group, International Association of Hydrological Sciences, Prediction in Ungauged Basin (PUB) Initiative.
2009-12	Member, Dalton Medal Selection Committee
2009-11	Member, EGU Nominations Committee
2007-10	Member, AGU Nominations Committee
2006-09	Member, UNESCO PUB-HELP-FRIEND Technical Working Group
2005-07	Chair, Science Steering Group, International Association of Hydrological
2004-12	Sciences, Prediction in Ungauged Basin (PUB) Initiative. Chair, PUB Working Group on Slope Intercomparison Experiment (SLICE)
2004-12	Member, PUB Working Group on Hydrological Theory
2004-07	Member, UN Committee on IDP-PUB relations
2004-07	USA Representative, UNESCO HELP Program and network of hydrological
	observatories
2003-05	Member, Science Steering Group, International Association of Hydrological
2002.00	Sciences, Prediction in Ungauged Basin (PUB) Initiative.
2003-06 2002-05	Member, IAPSO-IAHS Joint Commission on Groundwater-Seawater Interactions Member, Science Steering Group SSG, International Association of Hydrological
2002-03	Sciences (IAHS) Prediction in Ungauged Basin (PUB) Initiative.
2001-03	Member, CUASHI Instruments Committee, AGU/NSF
2001-05	President, IAHS International Commission on Tracers (ICT),
2000-04	Member, AGU Horton Research Grant Committee.
1999	Member, Experts Group for IAEA-UNESCO-WMO Joint International Isotope
	Hydrology Program (JIIHP).

1999-01 1999-02	President-Elect, IAHS International Commission on Tracers (ICT) Member, Science Steering Committee SSC, IGBP Biospheric Aspects of the Hydrological Cycle (BAHC).
1998-00	Chair, Surface Water Committee, American Geophysical Union (AGU).
1996-00	Member, UNESCO International Hydrological Program, Working
	Group 6 - Hydrological Processes in the Humid Tropics.
1995 - 98	Deputy Chair, Surface Water Committee, American Geophysical Union (AGU).
1993-94	Member, New York City, Scientific Working Group on Hydrologically Sensitive
	Areas, New York City Water Supply, New York City, NY.
1991-	Member, Surface Water Committee, American Geophysical Union (AGU).
1991-94	Wildland Erosion Committee, American Water Resources Association (AWRA)
1991-94	NASA Earth System Science Education Steering Committee, NASA.
1991-93	Chair, USU Global Change Fellowship Committee for U.S. Department of Energy (DOE) and Oak Ridge National Lab Associated Universities.

Review Panels:

2018	External Reviewer, IUFRO "Forests and Water " by the Global Forest Expert
2017	Panel. NSERC Site Review Team Member, Network Program Evaluation, Calgary.
2016	Rountable Panel Member, Advisory Panel and Secretariat for Canada's Science Review, Department of Innovation, Science and Economic Development, Calgary.
2014	External Reviewer, State Water Resources Control Board, Cal/EPA Division of Water Rights Volume Depletion Approach Study, Sacramento CA.
2012-	UN International Atomic Energy Agency (IAEA) Expert for <i>BRA7010 Sustainable</i> Water Resources Management in a Uranium Production Site, Instituto de Radioproteção e Dosimetria, Rio de Janeiro, Brazil
2011	Member, Review Team, Tsinghua University, Dept. Civil and Hydraulic Engineering
2008	NSF Committee of Visitors (COV), for the overall review of the NSF
	Geobiology and Low Temperature Geochemistry, Geomorphology and
	Land-Use Dynamics, Hydrological Sciences and Sedimentary Geology and
0005	Paleobiology programs, Washington DC
2005	KORDAN SUSTAINANIIITY OT WATER RESOURCES RESEATEN PROGRAM SECUL SOUT
	Korean Sustainability of Water Resources Research Program, Seoul South Korea
2005	· · · · · · · · · · · · · · · · · · ·
2005 1998	Korea
	Korea US Forest Service, Air and Water Research Logic Model review, Riverside CA.
1998	Korea US Forest Service, Air and Water Research Logic Model review, Riverside CA. National Science Foundation Annual Review Panel Member, Civil Infrastructure
1998 1994-98	Korea US Forest Service, Air and Water Research Logic Model review, Riverside CA. National Science Foundation Annual Review Panel Member, Civil Infrastructure Research Center, Puerto Rico EPSCoR Program (annual review in Mayaguez)

Keynote Addresses and Invited Talks at International Conferences:
2019 International Symposium on Water Security and Climate Change, SUSTech, Shenzhen, China

2017	EcoHydro2017: International Multidisciplinary Conference on: Hydrology and
2017	Ecology, Birmingham UK [Conference Keynote] AWRA Spring Specialty Conference on Aquatic System Connectivity, Alta Utah
	[Conference Keynote]
2017	European Geophysical Union, <i>Meet the Expert</i> Session, Vienna
2016	American Geophysical Union, Session on Preferential flow and transport across
	scales in the Critical Zone, San Francisco
2016	Joint European Stable Isotopes User Group (JESIUM) Meeting, Ghent Belgium.
2016	3rd International Conference on Hydropedology, Beijing, China.
2016	AGU Chapman Conference on Tropical Ecohydrology, Cuenca Ecuador
2015	American Geophysical Union, Session on <i>DEMs in watershed modeling</i> , San Francisco
2015	American Geophysical Union, Session on <i>Critical zone at large watershed scales</i> , San Francisco
2015	International Conference on Forests and Water, Kelowna, BC Canada
2014	American Geophysical Union, Session on Ecohydrological Change, San
2014	Francisco CA
2014	Soil Science Society of America, Session on Hydropedology, Long Beach CA
2014	Geological Society of America, Session on Critical Zone Hydrology, Vancouver
	BC
2014	Japan Geophysical Union, Session on Insight into Change and Evolution in
	Hydrology, Yokohama, Japan
2013	AGU Chapman Conference on Soil Mediated Drivers of Coupled Hydrological
	and Biogeochemical Processes, Tucson, AZ
2013	Hydropedology and Sustainable Natural Resource Mgmt, Beijing Normal Univ.
2013	Gordon Research Conference on Catchment Science, Holderness, NH
2013	Washington Hydrogeology Symposium, Tacoma WA
2012	American Geophysical Union, Session on Hydrogeophysics, San Francisco
2012	American Geophysical Union, Session on Scaling in hydrology, San Francisco
2012	IAHS Prediction in Ungauged Basins Decadal Celebration, Delft, NL
2012	50 Years of Watershed Modeling: Past, Present and Future. Boulder CO
2012	2 nd International Conference on Hydropedology, Leipzig, Germany
2012	Joint Canadian Geophysical Union / Canadian Water Resources Association meeting, Banff AB
2011	50th Anniversary Meeting, New Zealand Hydrological Society, Wellington NZ
2011	Geological Society of America, Birdsall-Dreiss Lecture, Minneapolis, MN
2011	Modflow and More 2011, International Groundwater Modeling Center, Golden, CO
2011	Canadian GEOHAZARDS 5 Conference, Kelowna, BC
2011	IAHS PUB Meeting: Putting PUB into Practice, Canmore, AB
2011	National Groundwater Association Annual Meeting, Baltimore, MD
2011	BASIN: Role of Stable Isotopes in Water Cycle Research, Keystone CO
2010	First Annual Water Research Horizon Conference, Berlin Germany.
2010	CUAHSI Biennial Conference, Lunchtime Keynote on "How to Publish a Paper", Boulder CO
2010	International Conference on Triggering of Mass Movements in Steep Terrain, Monte Verita, Switzerland.

2009 2009 2009	American Geophysical Union, Session on <i>The Fellows Speak</i> , Toronto Canada Canadian Geophysical Union, Woo Lecture, Toronto Canada European Geosciences Union, Vienna, Keynote lectures in five different sessions, including the Dalton Lecture, Vienna.
2008	2 nd China PUB Conference on Integrated Water Management in Mountainous Areas, Chengdu China.
2008	Geological Society of American and Soil Science Society of America, Session on Variably Saturated Flow in Soil and Rock, Houston TX
2008	1st International Hydropedology Conference, Penn State University, College Park
2008	CUAHSI Biennial Conference, Session on New Hydrological Theory, Boulder CO
2007	University of California at Berkeley, Catchment Sciences Symposium, Berkeley, CA
2007	American Geophysical Union Fall Meeting, Session on Contributions by the US to International Hydrology, San Francisco.
2007	American Geophysical Union Fall Meeting, Session on Advances in Water Quality Modeling, San Francisco. **
2007	IUGG/IAHS General Assembly, Session on Patterns, Thresholds and Non- linearities: Towards a new Theory of Catchment Hydrology, Perugia, Italy.
2007	European Geophysical Union, Session on <i>Gauging the Ungauged Basin</i> , Vienna, Austria.**
2007	IAEA International Conference on Advances in Isotope Hydrology and its Role in Sustainable Water Resource Management, Vienna, Austria.
2006	American Geophysical Union Fall Meeting, Session on From Karst to Catchment—Preferential Flow Processes Within Surface and Subsurface Hydrologic Systems, San Francisco.
2006	American Geophysical Union Fall Meeting, Session on <i>Bridging Hydrology, Soil Science, and Ecology: Hydropedology and Ecohydrology</i> , San Francisco (given by co-author)
2006	British Hydrological Society, 9 th National Symposium, Durham, UK
2006	China PUB Conference on Flood Forecasting and Water Resources Assessment. Beijing China.
2006	IAHS 2020 1-Day Conference, IHE Delft, <i>The Future of Hydrology</i> , Delft NL
2005	American Geophysical Union Fall Meeting, Frontier Lecture on <i>The Future of</i>
2005	Runoff Generation in Gauged and Ungauged Basins, San Francisco American Geophysical Union Fall Meeting, Session on Hydropedology, San
2003	Francisco
2005	American Geophysical Union Fall Meeting, Session on Watershed Characterization, San Francisco
2005	Stockholm Water Conference, Session on <i>Policy Implications of PUB</i> , Stockholm, Sweden
2005	Sir Mark Oliphant Conference on <i>Thresholds and Pattern Dynamics</i> , Perth Australia
2005	IAHS Symposium on <i>Model Improvements Through Detailed Process Studies</i> , Foz Iguacu, Brazil
2004	American Geophysical Union Fall Meeting, Session on <i>Process Heterogeneity</i> and Model Predictability, San Francisco

2004	American Geophysical Union Fall Meeting, Session on Experimental Catchments
2004	and Observatories for Cold Season Hydrologic Analysis, San Francisco Geological Society of America, Session on Upcoming Revolutions in Observing Systems: Implications for Hydrogeology, Denver CO
2004	International Instrumented Watershed Symposium, Edmonton, Canada.
2004	American Geophysical Union Spring Meeting, Session on Runoff Processes Identification, Montreal**
2004	American Geophysical Union Spring Meeting, Session on Scale in Catchment Hydrobiogeochemistry, Montreal**
2004	European Geophysical Union, Session on <i>Links Between Vadose Zone and Catchment Hydrology</i> , Nice, France**
2003	Water and Environment 2003: Indian Water Resources Engineering Society, Bhopal India
2003	American Geophysical Union Fall Meeting, Session on <i>Prediction in Ungauged Basins</i> , San Francisco
2003	American Geophysical Union Fall Meeting, Session on <i>Linkages Between Hydrology and Geomorphology</i> , San Francisco
2003 2003	American Geophysical Union Fall Meeting, Session on <i>Hillslope Hydrology</i> International Association of Hydrological Sciences, Session on <i>Parameter Estimation Techniques</i> , Sapporo Japan
2003	IAEA 40 th Anniversary Conference on Isotopes in Hydrology, Vienna Austria
2003	European Geophysical Society, Session on <i>Tracers and Biogeochemistry</i> , Nice France
2003	European Geophysical Society, Session on Prediction in Ungauged Basins, Nice
2003 2001	European Geophysical Society, Session on <i>Prediction in Ungauged Basins</i> , Nice American Geophysical Union Fall Meeting, Session on <i>Watershed Intercomparison</i> , San Francisco**
	American Geophysical Union Fall Meeting, Session on Watershed
2001	American Geophysical Union Fall Meeting, Session on Watershed Intercomparison, San Francisco** American Geophysical Union Fall Meeting, Session on Non-Linear Geophysics,
2001	American Geophysical Union Fall Meeting, Session on Watershed Intercomparison, San Francisco** American Geophysical Union Fall Meeting, Session on Non-Linear Geophysics, San Francisco IGBP Global Change Forum, Session on Mountains and Global Change,
2001 2001 2001	American Geophysical Union Fall Meeting, Session on Watershed Intercomparison, San Francisco** American Geophysical Union Fall Meeting, Session on Non-Linear Geophysics, San Francisco IGBP Global Change Forum, Session on Mountains and Global Change, Amsterdam European Geophysical Union, Session on Mountain Hydrology, Nice France. IUFRO and UNESCO Symposium Forests-Water-People in the humid tropics Past, Present and Future Hydrological Research for Integrated Land and
2001 2001 2001 2000	American Geophysical Union Fall Meeting, Session on Watershed Intercomparison, San Francisco** American Geophysical Union Fall Meeting, Session on Non-Linear Geophysics, San Francisco IGBP Global Change Forum, Session on Mountains and Global Change, Amsterdam European Geophysical Union, Session on Mountain Hydrology, Nice France. IUFRO and UNESCO Symposium Forests-Water-People in the humid tropics Past, Present and Future Hydrological Research for Integrated Land and Water Management, Kuala Lumpur, Malaysia. IAHS/IUGG, Session on Integrated Methods in Catchment Hydrology—Tracer,
2001 2001 2001 2000 2000	American Geophysical Union Fall Meeting, Session on Watershed Intercomparison, San Francisco** American Geophysical Union Fall Meeting, Session on Non-Linear Geophysics, San Francisco IGBP Global Change Forum, Session on Mountains and Global Change, Amsterdam European Geophysical Union, Session on Mountain Hydrology, Nice France. IUFRO and UNESCO Symposium Forests-Water-People in the humid tropics Past, Present and Future Hydrological Research for Integrated Land and Water Management, Kuala Lumpur, Malaysia.
2001 2001 2001 2000 2000 1999	American Geophysical Union Fall Meeting, Session on Watershed Intercomparison, San Francisco** American Geophysical Union Fall Meeting, Session on Non-Linear Geophysics, San Francisco IGBP Global Change Forum, Session on Mountains and Global Change, Amsterdam European Geophysical Union, Session on Mountain Hydrology, Nice France. IUFRO and UNESCO Symposium Forests-Water-People in the humid tropics Past, Present and Future Hydrological Research for Integrated Land and Water Management, Kuala Lumpur, Malaysia. IAHS/IUGG, Session on Integrated Methods in Catchment Hydrology—Tracer, Remote Sensing and New Hydrometric Techniques, Birmingham, UK IUFRO Conference on Environmental Forest Science, Session on Progress of
2001 2001 2001 2000 2000 1999 1998	American Geophysical Union Fall Meeting, Session on Watershed Intercomparison, San Francisco** American Geophysical Union Fall Meeting, Session on Non-Linear Geophysics, San Francisco IGBP Global Change Forum, Session on Mountains and Global Change, Amsterdam European Geophysical Union, Session on Mountain Hydrology, Nice France. IUFRO and UNESCO Symposium Forests-Water-People in the humid tropics Past, Present and Future Hydrological Research for Integrated Land and Water Management, Kuala Lumpur, Malaysia. IAHS/IUGG, Session on Integrated Methods in Catchment Hydrology—Tracer, Remote Sensing and New Hydrometric Techniques, Birmingham, UK IUFRO Conference on Environmental Forest Science, Session on Progress of Field Studies on the Water Cycle in Forests, Kyoto Japan. American Geophysical Union Fall Meeting, Session on The Links Between Soil Properties, Terrain Features, and Runoff Processes in Catchments. San

	Modeling in Mountain Areas, Boulder.
1994	American Geophysical Union Gordon Research Conference on Hydrological-
	Biologic-Geochemical Interactions in Forest Watersheds, New Hampshire.
1995	American Geophysical Union Spring Meeting, Session on <i>Innovative Techniques</i> in <i>Groundwater Hydrology</i> , Baltimore.
1993	European Geophysical Meeting, Session on Spatially-Distributed Hydrological
	Modeling, Wiesbaden, Germany.
1992	Association of American Geographers Annual Meeting, Session on <i>Dilettantism in</i>
	Hydrology, San Diego.
Keynote Add	dresses and Invited Talks at International Workshops:
2018	US DOE Watershed Collaboration Workshop, Crested Butte, CO (via Skype)
2017	Workshop on 'Water Ages', Freiburg, Germany
2017	Workshop on 'Isotope-based studies of water partitioning and plant-soil
	interactions in forested and agricultural environments', Tuscany, Italy
2016	TERENO Workshop on Ecology and Water Quality, Leipzig, Germany
2015	Workshop on Forest Hydrology: Future research questions and challenges, OSU
	Foundation, Portland OR
2015	Workshop on Critical Puzzles about Trees, Water, and Soil, Penn State
	University, University Park, PA
2015	PEDOFRACT Workshop, A Coruña, Spain
2014	Third International Tropical Hydrology Workshop, Malaysian Borneo.
2013	Ecohydrology of Semi-Arid Environments. Ben-Gurion University of the Negev,
	Israel
2013	US-Japan Hydrology and Biogeochemistry workshop, East-West Center, Hawaii
2011	Tropical Hydrology Workshop, U.S. Army Research Office, Maui, Hawaii
2009	Tropical Hydrology Workshop, U.S. Army Research Office, Republic of Panama
2009	Workshop on State-of-the-art of Residence Time Modeling, IAEA Vienna
2008	Invited Panelist, The California Flood Management Association, Panel on
	Climate Change Impacts on Flood Management, San Diego, CA
2008	Invited Panelist, The Nature Conservancy-USGS workshop on Regional Scale
	Streamflow-Ecological Relationships, Seattle.
2008	Biosphere 2 Hillslope Planning Workshop, National Center for Hydrological
	Synthesis and Biosphere 2, Oracle AZ **
2008	Northwest Forest Soils Council, Workshop on Soil-Plant-Water Relations,
	Bellingham WA
2007	PUB Workshop on Conceptualizing Process Heterogeneity, Aberdeen, Scotland
2007	Multiscale Nonlinear Systems Workshop, Dept. of Mathematics, Oregon State
	University, Corvallis OR
2006	USA PUB Workshop, Oregon State University, Corvallis OR
2005	All-Sweden Hydrology Workshop on State of the Art of Catchmemt Hydrology,
	Stockholm
2005	Slope Intercomparison Experiment (SLICE) Workshop, HJ Andrews, Oregon
2004	UNESCO Workshop on Pesticide Fate and Transport at the Hillslope and
	Watershed Scale, GSF Munich, Germany.**
2004	NATO Workshop on State of the Art of Physically Based Modeling, Moscow,
	Puggio

Russia

2004	CUASHI Vision Workshop on New Theory in Hydrology, Corvallis OR
2004	Australia-Japan Workshop on Prediction in Ungauged Basins, Perth, Australia.
2002	Peter Wall Institute Workshop on Scaling and Non-linearity, UBC, Canada
2002	IAHS Inaugural Workshop on Prediction in Ungauged Basins (PUB), Kofu Japan
2002	BC Workshop on Small Stream Channels and Their Riparian Zones: Their Form,
	Function and Ecological Importance in a Watershed Context, University of British Columbia, Canada
2001	IAEA Workshop on Isotopes in Water Cycle Models, Vienna, Austria
2001	CSIR Workshop on Isotope Tracers in Catchment Hydrology, Stellenbosch,
	South Africa,
2001	IGBP Joint BAHC and GEWEX Workshop, Amsterdam, The Netherlands.
2000	IGBP Joint IGBP BAHC & WCRP/GEWEX-ISLSCP Workshop, Caracas,
	Venezuela.
1999	NSF Joint Seminar on Hydrology and Biogeochemistry of Forested Catchments,
	East-West Center, Hawaii.
1999	IGBP BAHC Workshop on Global Change and Mountain Regions, Shonan
	Village, Japan.
1998	IGBP BAHC Workshop on Mountain Headwater Hydrology and Ecology,
	Pontresena, Switzerland.
1998	UNESCO Hydrology of the Humid Tropics Workshop on <i>Hydrological Processes</i>
	and Modeling in the Humid Tropics, Umea, Sweden.
1996	New Zealand Forest Research Institute (LandCare NZ) Workshop on Future of
	Forest Catchment Research in New Zealand - planning through the year 2000,
	Christchurch, NZ
1996	IGBP BAHC Workshop on Predicting Global Change Impacts on Mountain
	Hydrology and Ecology, Katmandu, Nepal.
1994	NATO Advanced Science Workshop on Global Change Research and Education,
	London, Ontario.
1994	IBGP BAHC Workshop on Continental-Scale Transport of Nutrients and
	Sediments to Oceans, Durham, New Hampshire.

^{**}given on my behalf by one of my Post Docs or PhD students

Invited Talks at Universities:

2019	Strasbourg University, Dept of Geology, Strasbourg France
2019	Ludong Universty, Dept of Natural Resources, Yantai China
2019	Bristol University Dept of Civil Engineering, Bristol UK
2019	University of Virginia, Water Resilience Program, Dept. Environmental Science
2018	University of Nevada, Reno, Graduate Program of Hydrologic Sciences, Reno
2018	University of Alabama, Dept of Geography, Tuscaloosa
2018	McMaster University, Global Water Futures, Early Career Mentoring, Hamilton.
2018	Ludong University, Yantai, China
2018	Tsinghua University, Dept of Civil and Hydraulic Engineering, Beijing China
2018	McMaster University, GWF Early Career Mentoring Event, Hamilton
2018	Northwest Agriculture and Forestry University, Yangling China
2018	Beijing Normal University, Beijing China
2018	Faculty of Soil and Water Conservation, Beijing Forestry University

2018	Distinguished Lecture, SUSTech, Shenzhen China
2018	Birmingham University, Campus World Water Day celebration, Birmingham UK
2018	Melbourne University, School of Engineering, Melbourne, Australia
2018	Monash University, Dept. of Civil Engineering, Melbourne, Australia
2018	University of the Sunshine Coast, Sustainability Institute, Sippy Downs, Australia
2017	Concordia University, Faculty of Engineering and Computer
2017	
	Sciences Distinguished Speaker Series, Montreal
2017	McGill University, Dept. of Earth and Planetary Sciences, Montreal
2017	Durham University, Dept. of Geography, Durham UK
2017	Kyoto University, Dept. of Civil Engineering, Kyoto, Japan.
2017	Giessen University, Institute for Landscape Ecology and
	Resources Management, Giessen, Germany
2017	Freiburg University, Faculty of Environment and Natural Resources, Freiburg,
	Germany
2017	University of Lausanne, Institute of Earth Surface Dynamics, Lausanne,
2017	
	Switzerland
2017	University of Luxembourg, Doctoral Training Program, Luxembourg
2016	Saskatchewan Polytechnic, Simulcast across 4 campus in Saskatchewan,
_0.0	Canada
0040	
2016	Oregon State University, Post Doc Association, Corvallis Oregon
2016	National Autonomous University of Mexico (UNAM), Mexico City, Mexico
2016	University of Victoria, Dept. of Earth and Environmental Science, Wellington NZ
2016	University of the Sunshine Coast, Sustainability Research Centre, Queensland,
20.0	Australia
0045	
2015	Institute for Atmospheric and Climate Science, ETH Zurich, Switzerland
2015	Faculty of Geo-information Science and Earth Observation, Twente University,
	The Netherlands
2015	Dept. Civil Engineering, TU Delft, The Netherlands
2015	State Key Laboratory for Soil Erosion, NW Agriculture and Forestry University,
2013	
	China
2015	Dept. of Geology, University of Manitoba, Winnipeg MB
2015	Campus-Wide Lecture, Universidad San Francisco de Quito, Ecuador
2015	Dept. of Civil Engineering, Universidad Cuenca, Cuenca Ecuador
2015	Universidad Catolica de Chile, Santiago Chile
2015	Dept. of Resources, Water and Environmental Sciences, University of Cuenca,
	Ecuador
2014	Dept. Civil Engineering, Indian Institute of Science, Bangalore
2014	University of Southern California, Dept. of Earth Science, Los Angeles
2014	NW Agriculture and Forestry University, Yangling China
2014	Kyoto University, Dept. of Civil Engineering, Kyoto Japan
2014	Tohoku University, Dept. of Civil Engineering, Sendai Japan
2014	UC Irvine, Dept. of Civil and Environmental Engineering, Irvine CA
2013	Tsinghua University, Dept. of Hydraulics and Civil Engineering, Beijing.
2013	Virginia Tech, College of Natural Resources, Blacksburg, VA
2013	NC State University, Dept. Marine, Earth, & Atmospheric Sciences, Raleigh NC
2013	University of North Carolina, Ecology Program, Chapel Hill, NC
2012	University of South Carolina, Dept. of Earth and Ocean Science, Columbia SC

0040	
2012	CUASHI Cyber Seminar, 50 member universities. Broadcast from Savannah River Site
2012	University of Waterloo, The Water Institute, Waterloo ONT
2011	Tsinghua University, Dept. of Civil and Hydraulic Engineering, Beijing China.
2011	University of Oregon, Dept. of Geography, Eugene OR
2011	University of Oregon, Dept. of Geology, Eugene OR
2011	University of Western Oregon, Dept. of Earth Sciences, Monmouth OR
2011	University of British Columbia, Kelowna Campus, Kelowna BC
2011	University of Calgary, Dept of Geosciences, Calgary AB
2011	University of Delaware, Delaware Environmental Institute, Newark, DE
2011	Syracuse University, Dept of Geology, Syracuse NY
2011	SUNY Oswego, Dept of Geology, Oswego NY
2011	SUNY Oneonta, Dept of Geology, Oneonta NY
2011	University of Massachusetts, Amherst MA
2011	Portland State University, Dept of Geology, Portland OR
2011	University of Arizona, Dept of Geology, Tucson, TX
2011	Florida International University, Dept of Earth System Science, Miami FLA
2011	University of Memphis, Dept of Geology, Memphis TN
2011	Baylor University, Dept of Earth Sciences, Waco TX
2011	University of Texas-Austin, Dept of Geology, Austin TX
2011	
	University of Texas-Arlington, Dept of Geology, Arlington TX Utah State University, Dept of Geology, Logan UT
2011	
2011	University of Alberta, Dept of Natural Resources, Edmonton, Canada
2010	Yale University, School of Forestry and Environmental Studies, New Haven, CT
2009	UC Santa Barbara, Bren School of the Environment, Santa Barbara CA
2009	University of Aberdeen, Dept. of Geography, Aberdeen, Scotland
2008	University of Connecticut, Dept of Civil and Env. Engineering, Storrs, CT
2008	Washington State University, Dept of Civil and Environmental Engineering,
2007	Pullman, WA
2007	Texas A & M University, Distinguished Lecture in Multi-Scale Nonlinear, College
0007	Station, TX
2007	University of Colorado, Hydrological Sciences Program, Boulder, CO
2006	National Center for Earth-Surface Dynamics, St. Anthony Falls Laboratory,
2000	University of Minnesota, Minneapolis
2006	Durham University, Dept. of Geography, Durham, UK
2005	CUAHSI Cyber Seminar, 50 member US universities, Broadcast from Corvallis
2005	University of Stuttgart, Dept. of Civil and Environmental Engineering, Stuttgart,
0005	Germany
2005	University of Uppsala, Dept of Physical Geography, Uppsala, Sweden
2005	University of Stockholm, Dept. of Geography and Quaternary Geology,
2225	Stockholm Sweden
2005	Swedish Agricultural University, Dept. of Environmental Science, Uppsala,
	Sweden
2005	University of Oregon, Dept of Geography, Eugene, OR
2005	University of Nevada Reno, Desert Research Institute, Reno NV
2004	University of Arizona, Dept. of Hydrology, Tucson AZ
2004	ETH Zurich, Dept. of Civil, Environmental and Geomechanics Engineering,

	Switzerland
2004	EAWAG Dubendorf, Dept. of Environmental Chemistry, Zurich Switzerland
2004	University of Bern, Dept. of Geographical Sciences, Bern Switzerland.
2004	University of Illinois, Center for Water as a Complex System, Urbana-Champaign
2004	CUAHSI Cyber Seminar, 50 member US universities, Broadcast from Corvallis
0004	OR
2004	Boise State University, Dept. of Geology, Boise ID
2004	UC Berkeley, CUAHSI Hydrological Synthesis Center Review, Berkeley CA
2003	University of Western Australia, College of Geosciences, Perth, Australia
2003	University of Melbourne, Dept. of Civil Engineering, Melbourne, Australia
2003	Newcastle University, Dept. of Civil and Environmental Engineering, Newcastle,
	Australia
2003	University of New South Wales, Dept. of Civil and Environmental Engineering,
	Sydney, Australia
2003	Australia National University, iCAM Center, Canberra Australia
2003	Technical University of Vienna, Dept. of Civil Engineering, Vienna Austria
2003	University of Western Australia, Center for Water Research, Perth, Australia
2003	University of Oregon, Dept. of Geosciences, Eugene, OR
2003	Utah State University, Dept. of Civil and Environmental Engineering, Logan UT
2003	Stanford University, Dept. of Earth Science, Palo Alto, CA
2003	UC Davis, Dept. of Land Atmosphere and Water Science, Davis CA
2002	Uppsala University, Dept. of Earth Sciences, Uppsala, Sweden
2001	Colorado State University, Dept. of Earth Science, Fort Collins, CO
2000	Swiss Federal Institute (ETH) Zurich, Institute of Hydrology, Zurich Switzerland
2000	Freiburg University, Institute of Hydrology, Freiburg Germany (a 4-lecture series)
2000	Dartmouth University, Dept. of Earth Sciences, Hanover NH
1999	Imperial College London, Dept. of Civil Engineering, London UK
1999	Exeter University, Dept. of Geography, Exeter UK
1998	Princeton University, Distinguished Lecturer Series, Dept. of Civil and
	Environmental Engineering, Princeton, NJ.
1998	University of Waterloo, Groundwater Center, Waterloo, Canada.
1998	Uppsala University, Dept. of Hydrology, Uppsala Sweden.
1998	Trent University, Watershed Ecosystems Program, Peterborough, Canada.
1997	University of Toronto, Dept. of Geography, Toronto, Canada.
1997	University of Tsukuba, Dept. of Earth Sciences, Tsukuba, Japan.
1997	University of North Carolina, Dept. of Earth Sciences, Charlotte, NC.
1996	Harvard University, Dept. of Earth and Planetary Sciences, Cambridge, Mass.
1996	Carnegie Mellon University, Dept. of Civil and Env. Engineering, Pittsburgh, Penn.
1996	University of Puerto Rico, Dept. of Civil Engineering, Mayaguez, Puerto Rico.
1996	Free University, Department of Hydrology, Amsterdam, The Netherlands.
1996	Freiburg University, Institute of Hydrology, Freiburg, Germany.
1994	Cornell University, Center for the Environment, Ithaca, New York.
1994	University of Puerto Rico, Dept. of Civil Engineering, Mayaguez, Puerto Rico.
1993	University of Florida, Department of Geology, Gainsville, Florida.
1993	University of Puerto Rico, Dept. of Civil Engineering, Mayaguez, Puerto Rico.
1992	University of Southern California, Department of Geography, Catalina Island

	Field Station, Catalina Island, California
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1991	University College, Galway, Department of Civil Engineering, Galway, Ireland
1991	University of British Columbia, Department of Geography, Vancouver, Canada
1991	Simon Fraser University, Department of Geography, Vancouver, Canada
1990	University of Iowa, Department of Geography, Iowa City, Iowa
1989	Pennsylvania State University, Environmental Resources Research Institute,
	College Park, Pennsylvania
lessite d Telles	s at Research Institutes:
2019	Grand Ducal Institute, Academy of Sciences of Luxembourg, Luxembourg
2018	Lawrence Berkeley Lab, UC Berkeley, Berkeley CA
2017	Luxembourg Institute for Science and Technology (LIST), Luxembourg
2017	Helmholz Agrosphere Institute, Forschungszentrum, Juelich, Germany
2017	Federal Institute for Geosciences and Natural Resources, Geozentrum,
	Hanover, Germany
2016	Institute for Geological and Nuclear Sciences, Lower Hutt, New Zealand
2013	National Hydrology Research Center, Environment Canada, Saskatoon SK
2011	National Institute for Water and Atmospheric Research (NIWA), Christchurch, NZ
2011	USGS Cascades Volcano Observatory, Vancouver WA
2008	Nanjing Hydraulic Research Institute, Nanjing China.
2008	Oak Ridge National Lab, Oak Ridge, TN
2008	Environmental Protection Agency, Ecological Services Group, Corvallis OR
2007	National Science Foundation, Hydrological Sciences Division and Earth Sciences
	Directorate, Washington DC
2007	NOAA National Weather Service, Washington DC
2006	Los Alamos National Lab, Los Alamos NM
2006	Savannah River Ecology Lab, Savannah River SC
2005	Korean Forest Research Institute, Seoul, Korea
2005	Environmental Protection Agency (EPA), Corvallis OR
2004	USGS Northwest Regional Science Meeting, HJ Andrews Conference Center
2004	USGS, Portland District Office, Water Resources Division, Portland OR
2004	Environmental Protection Agency (EPA), Corvallis OR
2003	US Forest Service, Savannah River Site, Aiken, SC
2003	US Forest Service, Watershed Research Group, Juneau, AL
2002	Environmental Protection Agency (EPA), Corvallis OR
2001	International Atomic Energy Agency (IAEA), Vienna, Austria
2001	CSIR, Ministry of Forests, Pretoria, South Africa
2001	CSIR, Ministry of Forests, Stellenbosch, South Africa
2000	Forschungszentrum fur Umwelt und Gesundheit (GSF), Institute of Hydrology,
2000	Munich
2000	USRA/ARS Northwest Watershed Research Center, Boise ID
1999	Potsdam Institute for Climate Change (PIK), Berlin Germany
1998	Chinese Water Resources Agency, Nanjing, China
1998	Forest Research Institute, Seoul, South Korea
1998	Institute for Geological and Nuclear Sciences, Wellington, New Zealand
1996	
1997	Japan Forestry and Forest Products Research Institute, Tsukuba, Japan

LandCare New Zealand, Christchurch, New Zealand

1997	U.S. Forest Service, Cooperative Research Unit, Syracuse, NY
1996	Nepal Institute of Forestry, Pokhara, Nepal
1995	LandCare New Zealand, Christchurch, New Zealand
1989	Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge,
1909	Tenn.
1989	NASA, Earth Science and Applications Division, Marshall Space Flight Center,
	Huntsville, Alabama
Invited Short	tcourses:
2018	9 th Annual Catchment Science Summer School (5-days), University of
0040	Birmingham, UK
2018	Introduction to Stable Isotopes in Aquatic Systems, Universidad de Las Américas, Ecuador
2018	1st Annual National Shortcourse Isotope Tracers in Catchment Hydrology,
	National Hydrology Research Centre, Saskatoon (with 9 co-instructors)
2018	Launching an Academic Career: A 1-Day Shortcourse for PhD students and Post
	Docs, University of Saskatchewan (with Maureen Reed)
2017	8th Annual Catchment Science Summer School (5-days), University of Aberdeen,
	Scotland
2017	Launching an Academic Career: A 1-Day Shortcourse for PhD students and Post
	Docs, University of Saskatchewan (with Maureen Reed)
2016	Isotope Tracers in Catchment Hydrology, (4-days), Global Institute for Water
	Security, via WebEx to 55 USGS employees (with 4 co-instructors)
2016	7 th Annual Catchment Science Summer School (5-days), University of Aberdeen,
	Scotland
2016	Advanced Ecohydrology: A 1-Day Shortcourse for Graduate Students, University
	of Cuenca, Ecuador.
2016	Launching an Academic Career: A 1-Day Shortcourse for PhD students and Post
	Docs, University of Saskatchewan (with Maureen Reed).
2015	Isotope Hydrology Shortcourse (2 Days), St Petersburg University, St.
	Petersburg, Russia
2015	6 th Annual Catchment Science Summer School (5-days), University of Aberdeen,
	Scotland
2015	How to Write a Scientific Paper: A ½ Day Shortcouse for PhD students.
	Northwest Agriculture and Forestry University, Yangling China
2015	Launching an Academic Career: A 1-Day Shortcourse for PhD students and Post
	Docs, University of Saskatchewan (with Maureen Reed)
2015	Forest Hydrology Shortcourse (4 days), Universidad Austral de Chile, Valdivia
	Chile
2014	5 th Annual Catchment Science Summer School (5-days), University of Aberdeen,
	Scotland
2014	IAEA Isotope Hydrology Shortcourse (3-days), Manila, Philippines
2014	CUASHI Watershed Hydrology Masterclass (5-days), University of Arizona and
	Biosphere 2, Oracle AZ
2014	Launching an Academic Career: A 1-Day Shortcourse for PhD students and Post
	Docs, University of Saskatchewan (with Maureen Reed)
2013	4 th Annual Catchment Science Summer School (5-days), University of Aberdeen,

	Scotland
2013	Advanced Isotope Hydrology for Uranium Mining Applications (3-days), Federal University of Rio de Janeiro and Instituto de Radioproteção e Dosimetria, Rio de Janeiro, Brazil
2013	Launching an Academic Career: A 1-Day Shortcourse for PhD students and Post Docs, University of Saskatchewan (with Maureen Reed)
2012	Launching an Academic Career: A 1-Day Shortcourse for PhD students and Post Docs, San Francisco, CA (with Brian McGlynn, Thorsten Wageneer and Kamini Singha)
2012	3 rd Annual <i>Catchment Science Summer School (5-days) I,</i> University of Aberdeen, Scotland
2012	Isotope Hydrology Shortcourse (1-day), Federal University of Rio de Janeiro and Instituto de Radioproteção e Dosimetria, Rio de Janeiro, Brazil
2012	Forest Hydrology Masterclass (2-days), Arauco Ltd, Conception, Chile.
2011	2 nd Annual Catchment Science Summer School (5-days), University of Aberdeen, Scotland
2011	Launching an Academic Career (1-day), University of Aberdeen, Scotland.
2010	IAEA Isotope Hydrology Shortcourse for Nile Basin Water Managers (3-days), Cairo, Egypt
2010	How to Succeed in an Academic Career (1-day), San Francisco, CA
2010	1 st Annual <i>Catchment Science Summer School (5-days)</i> , University of Aberdeen, Scotland
2010	Catchment Hydrology Monitoring (2-days), Federal University of Rio de Janeiro and Instituto de Radioproteção e Dosimetria, Rio de Janeiro, Brazil
2010	Ethics in Peer Review, Dept. of Fisheries and Wildlife Annual Graduate student conference, Corvallis OR
2010	How to Write and Publish a Paper, CUAHSI Science Conference, Boulder CO
2009	How to Write and Publish a Paper, Taught at the European Geosciences Union, Vienna.
2007	Advanced Techniques in Experimental Hydrology, Winter School, Delft University of Technology, UNESCO-IHE, Gabrielle Lippmann Institute.
2006	Runoff Generation Processes and Modeling, Taught at TU Delft, 1-Day
2005	Runoff Generation in Forested Watersheds, Taught at Stockholm University, 1-Day
2005	Isotope Tracers in Catchment Hydrology, Taught at Stockholm University, 1-Day
2004	Runoff Generation in Forested Watersheds, Taught at the USFS National Science Conference, San Diego, CA, 1-Day
2004	Isotope Tracers in Catchment Hydrology, Taught at Australia CSIRO Catchment Modeling School, Melbourne Australia, 1-Day
2003	Isotope Hydrology in Environmental Engineering: A Primer, Taught at the Center for Environmental Fluid Dynamics, University of Western Australia, 2 Days
2002	Isotope Hydrology, A shortcourse taught on behalf of the UN and the International Atomic Energy Agency IAEA, Nanjing China, 4 days.
2001	Quantifying groundwater-surface water interactions using isotope tracers, A shortcourse taught on behalf of the UN and the International Atomic Energy Agency IAEA at the CSIR Stellenbosch, South Africa, 2 days.

Tracers in Catchment Hydrology and Biogeochemistry Taught with Rick Hooper and Carol Kendall at Oregon State University, 2 Days

PUBLICATIONS

2001

A. BOOKS, EDITED BOOKS AND BOOK SERIES

McDonnell, J.J., 2019. Launching an Academic Career: The Brief Guide for PhD students, Post Docs and New Faculty. Wiley, In press for late 2019 publication.

McDonnell, J.J., Editor-in-Chief. 2006-2012. Benchmark Papers in Hydrology Book Series, IAHS Press, 9 volumes 2006-2012.

Anderson, M.G., Editor; J.J. McDonnell, Senior Advisory Editor. 2005. Encyclopedia of Hydrological Sciences, John Wiley and Sons, 5 volume set, 3,456 pages.

Kendall, C. and J.J. McDonnell, Editors, 1998. Isotope Tracers in Catchment Hydrology, Elsevier Science Publishers, 816p.

B. REFEREED PAPERS

Science, Nature and Nature-led journals in bold

2019

Benettin, P., P. Queloz, M. Bensimon, J.J. McDonnell and A. Rinaldo, 2019. Velocities, residence times, tracer breakthroughs in a vegetated lysimeter: a multitracer experiment. Water Resources Research, in press.

Blöschl, G., M. Bierkens, A. Chambel, C. Cudennec, G. Destouni, A. Fiori, J. Kirchner, J.J. McDonnell, H. Savenije, M. Sivapalan, C. Stumpp, E. Toth, E. Volpi, G. Carr, J. Salinas, B. Széles, A. Viglione and 200 others, 2019. 23 unsolved problems in hydrology – a community perspective. Hydrological Sciences Journal, in review.

Coles, A.E., B. McConkey and J.J. McDonnell, 2019. Fifty years of recorded hillslope runoff on seasonally-frozen ground: The Swift Current, Saskatchewan, Canada dataset. Earth System Science Data, in press.

Evaristo, J. and J.J. McDonnell, 2019. Global analysis of streamflow response to forest management. Nature, DOI: 10.1038/s41586-091-1306-0. [to appear June 17; embargoed information until then].

Evaristo J., M. Kim, J. van Haren, L. Pangle, C. Harman, P. Troch and J.J. McDonnell, 2019. Characterizing the fluxes and age distribution of soil water, plant water, and deep percolation in a model tropical ecosystem. Water Resources Research, DOI: 10.1029/2018WR023265.

Fan, Y, M. Clark, D. Lawrence, S. Swenson, L. Band, S. Brantley, P. Brooks, W.E. Dietrich, A. Flores, G. Grant, J. Kirchner, D. Mackay, J.J. McDonnell, P. Milly, P. Sullivan, C. Tague, H.

- Ajami, N. Chaney, A. Hartmann, P. Hazenberg, J. McNamara, J. Pelletier, J Perket, E. Rouholahnejad-Freund, T. Wagener, X. Zeng, E. Beighley, J. Buzan, M Huang, B. Livneh, B. Mohanty, B. Nijssen, M. Safeeq, C. Shen, W. van Verseveld, J. Volk and D Yamazaki, 2019. Structures and functions of hillslope hydrology with relevance to Earth System Modeling: Syntheses and testable hypotheses. Water Resources Research, doi.org/10.1029/2018WR023903.
- Gabrielli, C.P. and J.J. McDonnell, 2019. No linkage between event based runoff and groundwater recharge on the Maimai hillslope. Water Resources Research, in press.
- Gabrielli, C.P. and J.J. McDonnell, 2019. Critical contrasts in the critical zone: A simple index to quantify the relationship between geology, landscape structure and water transit time. Hydrological Processes, in review.
- Gaj, M. and J.J. McDonnell, 2019. Soil tension controls the isotopic fractionation factor for evaporation from soil. Hydrological Processes, DOI 10.1002/hyp.13418.
- Gaj, M., A. Lamparter, S. Woche, J. Bachmann, J.J. McDonnell and F. Stange[,] 2018. The role of matric potential, solid interfacial chemistry and wettability on isotopic equilibrium fractionation. Vadose Zone Journal, DOI:10.2136/vzj2018.04.0083
- Lazo, P., G. Mosquera, J.J. McDonnell and P. Crespo, 2019. The role of vegetation, soils, and precipitation on water storage and hydrological services in Andean Páramo catchments. Journal of Hydrology, in press.
- Li[,] H., B. Si, P. Wu and J.J. McDonnell[,] 2019. Water mining from deep critical zone by apple trees growing on loess in monsoonal climate. Hydrological Processes, DOI: 10.1002/hyp.13346.
- López-Días, V., N. Martínez-Carreras, F. Barnich, T.Wirtz, J.J. McDonnell and L. Pfister, 2019. Fractionation of 2H/H and 18O/16O isotopic ratios in water through nafion membranes. Journal of Membrane Science, 752(128-139, DOI:10.1016/j.memsci.2018.11.003.
- McDonnell, J.J., 2019. The Maimai catchment, New Zealand. In Burt, T., D. Thompson and A. Serocka (eds). Curious About Nature: A Passion for Field Work. Field Studies Council Publ, in press.
- McDonnell, J.J., C Spence and D. Karran 2019. Fill and spill: A working hypothesis for runoff generation at the scale of the beholder. Water Resources Research [Invited Paper], in review.
- Nehemy, M., C. Millar, K. Janzen, M. Gaj, D. Pratt, C. Laroque and J.J. McDonnell, 2019. ¹⁷O-excess as a detector for co-extracted organics in vapor analyses of plant isotope signatures. Rapid Communications in Mass Spectrometry, in press.
- Pfister, L., C. Grave, J. Beisel and J.J. McDonnell, 2019. A global assessment of freshwater mollusk shell oxygen isotope signatures and their relation to precipitation and stream water. Scientific Reports, DOI:10.1038/s41598-019-40369-0.

McDonnell, J.J., 2019. Mentoring the mid-career. Nature, in press for June 2019.

Sprenger M., C. Stumpp, S. Allen, P. Benettin, M. Dubbert, A. Hartmann, M. Hrachowitz, J. Kirchner, J.J. McDonnell, N. Orlowski, D. Penna, S. Pfahl, M. Rinderer, N. Rodriguez, C. Werner and M Weiler 2019. The demographics of water: A review of water ages in the critical zone. Reviews of Geophysics, DOI.org/10.1029/2018RG000633

2018

Ameli, A.A., C. Gabrielli, U. Mortgenstern and J.J. McDonnell, 2018. Groundwater subsidy from headwaters to their parent water watershed: A combined field-modeling approach. Water Resources Research, 54, DOI:10.1029/2017WR022356.

Caldwell, P., R. Jackson, C. Miniat, S. Younger, J. Vining, J.J. McDonnell, and D. Aubrey, 2018. Woody bioenergy crop selection can have large effects on water yield: A southeastern United States case study. Global Change Biology and Bioenergy, 117: 180-189, DOI.org/10.1016/j.biombioe.2018.07.021.

Coles, A.E. and J.J. McDonnell, 2018. Fill and spill drives runoff connectivity over frozen ground. Journal of Hydrology, 558:115-128, DOI.org/10.1016/j.jhydrol.2018.01.016.

Gabrielli C.P, Morgenstern U, Stewart M. and J.J. McDonnell, 2018. Contrasting groundwater and streamflow ages at the Maimai watershed. Water Resources Research, 54(6): 3937-3957, DOI:10:1029/2017WR021825.

Hu, H., F. Dominguez, P. Kumar, J.J. McDonnell and D. Gochis, 2018. Numerical water tracer model for understanding event-scale hydrometeorological phenomena. Journal of Hydrometeorology, 19(6):378-389, DOI:10.1175/JHM-D-17-0202.1.

McDonnell, J.J., J. Evaristo, K. Bladon, J. Buttle, I. Creed, S. Dymond, G. Grant, A. Iroume, C.R. Jackson, J. Jones, T. Maness, K. McGuire, D. Scott, C. Segura, R. Sidle and C. Tague. 2018. Water sustainability and watershed storage. Nature-Sustainability, 1:378–379, DOI: 10.1038/s41893-018-0099-8.

Millar, C., D. Pratt, D. Schneider and J.J. McDonnell, 2018. A comparison of extraction systems for plant water stable isotope analysis. Rapid Communications in Mass Spectrometry, 32:1031-1044, DOI. 10.1002/rcm.8136.

Orlowski, N., L. Breuer, N. Angeli, P. Boeckx, C. Brumbt, C. S. Cook, M. Dubbert, J. Dyckmans, B. Gallagher, B. Gralher, B. Herbstritt, P. Hervé-Fernández, C. Hissler, P. Koeniger, A. Legout, C. J. Macdonald, C. Oyarzún, R. Redelstein, C. Seidler, R. Siegwolf, C. Stumpp, S. Thomsen, C. Werner, M. Weiler and J.J. McDonnell, 2018. Inter-laboratory comparison of cryogenic water extraction systems for stable isotope analysis of soil water. Hydrology and Earth System Science, 22(7):3619-3637, DOI: 10.5194/hess-22-3619-2018.

Orlowski, N., A. Winkler, J. J. McDonnell and L. Breuer, 2018. A simple greenhouse experiment to explore the effect of cryogenic water extraction for tracing plant source water. Ecohydrology, 11(5), DOI: 10.1002/eco.1967.

- Penna, D., L. Hopp, F. Scandellari, S. Allen, P. Benettin, M. Beyer, J. Geris, J. Klaus, J. Marshall, L. Schwendenmann, T. Volkmann, J. von Freyberg, A. Amin, N. Ceperley, M. Engel, J. Frentress, Y. Giambastiani, J.J. McDonnell, G. Zuecco, P. Llorens, R. Siegwolf, T. Dawson and J. Kirchner. 2018. Ideas and perspectives: Tracing terrestrial ecosystem water fluxes using hydrogen and oxygen stable isotopes challenges and opportunities from an interdisciplinary perspective. Biogeosciences, 15:6399–6415, DOI:10.5194/bg-15-6399-2018.
- Pfister L, F. Thielen, E. Deloule, N. Valle, E. Lentzen, C. Grave C, J. and J.J. McDonnell, 2018. Pearl mussels as a stream water stable isotope recorder. Ecohydrology, in press.
- Stein, S., J.J. McDonnell and M Miller, 2018. Discussing scientific ethics: what would you do? Astronomy and Geophysics, 59(4):4.12, DOI.org/10.1093/astrogeo/aty187.
- Spence, C., J. Wolfe, C. Whitfield, H. Baulch, N. Basu, A. Bedard-Haughn, K. Belcher, R. Clark, G. Ferguson, M. Hayashi, K. Liber, J.J. McDonnell, C. Morrissey, J. Pomeroy, M. Reed and G. Strickert, 2018. Prairie Water: A Global Water Futures project to enhance the resilience of Prairie communities through sustainable water management. Canadian Water Resources Association Journal, in press.

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McDonnell, J.J., 1988. Hydrological developments: Report on the 26th congress of the International Geographical Union. Journal of Hydrology (NZ), 27(2):154-155.

1987

Buttle, J.M. and J.J. McDonnell, 1987. Modeling the areal depletion of snowcover in a forested catchment. Journal of Hydrology, 90(1-2):43-60, DOI:10.1016/0022-1694(87)90172-7.

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Papers in preparation, conference papers, abstracts and reports are omitted

PROFESSIONAL SERVICE

Academic Courses Taught

Addaciiiio oc	or see a contract of the contr
2019-	Catchment Science (SENS graduate course, taught at Beijing Normal University)
2016-	Isotope Tracers in Catchment Hydrology, (graduate course, SENS), Univ. of
	Saskatchewan.
2015	Isotopes in the Biosphere (graduate course, SENS), Univ. of Saskatchewan.
2013-18	Breakthroughs in Water Security Research (graduate course, SENS), Univ. of
	Saskatchewan.
2012	The Hydrology of Canada (2 nd year Undergraduate Course), Univ. of
	Saskatchewan.
2008-	The Future Professoriate (a course for PhD students, Post Docs and Assistant
	Professors interested in pursuing an academic career; (at Oregon State
	University and University of Saskatchewan)
1989-2012	Hillslope and Watershed Hydrology (senior undergraduate/graduate course),
	USU, ESF, OSU and University of Saskatchewan (now in shortcourse format)
1990-2012	Field Hydrology (senior undergraduate/graduate course), ESF, OSU.

Proposal Reviewer for: National Science Foundation (Programs: Hydrological Sciences, Geosciences, Geosciences

Program, LOCAR Instrumented Catchment Network, Government of Western Australia, Utah State University.

Journal Reviewer for: Nature, Nature-Geoscience, PNAS, Wires Water, Water Resources Research, Hydrological Processes, Journal of Hydrology, Water Resources Bulletin, Advances in Water Resources, ASCE Journal of Irrigation and Drainage ASCE Journal of Hydrologic Engineering, Atmospheric Research, Water Air and Soil Pollution, Geofísca Internacional, Boreal Environment Research, Soil Science Society of America Journal, Hydrological Sciences Journal, Hydrology and Earth Systems Science, Review of Environmental Science, Water SA, Ecohydrology.

External International Examiner (PhD Theses, Faculty Review): UC Santa Barbara, Duke University, The University of Western Australia, University of Waterloo, University of Toronto, ETH Zurich, University of British Columbia, University of Adelaide; University of Edinburgh; SUNY-ESF; UC Berkeley; Australia National University; University of Maryland; University of Western Ontario; University of South Carolina; Portland State University; University of San Diego; Louisiana State University; University of Canterbury; University of Melbourne; University of Newcastle; UBC Kelowna; University of Mass.; Freiberg University; Utah State University; Colorado State University, Delft University of Technology, The Royal Society (UK), The Royal Society (New Zealand), University of North Carolina, CSIRO (Australia), Canada Research Chair Program..

Conference and Workshop Organization:

2015	Forest Hydrology: Vision and outlook, Portland Oregon.
2014	Chapman Conference on Spatial organization and complex behavior of
	intermediate scale catchments (Co-convener with 5 others), Luxembourg
2013	Subsurface Networks in Ecohydrology (with Larry Band), Chapel Hill, NC.
2009	Chapman Conference on Examining Ecohydrological Feedbacks of landscape
	change along elevation gradients in semi-arid regions, (with Brad Wilcox, David
	Breshears, Mark Seyfried), Sun Valley Idaho.
2009	State of the Art of Residence Time Computation, Analysis and Modeling, IAEA
	Vienna Austria
2007	IAHS-IUGG General Assembly, IAHS Main Program, Perugia, Italy
2006	NSF-sponsored USA PUB Workshop, October 2006 Corvallis OR
2005	UNESCO-sponsored PUB-HELP-FRIEND Workshop, Corvallis OR
2005	Slope Intercomparison Experiment (SLICE) International Workshop, HJ Andrews
	Experimental Forest, September 2005
2004	CUAHSI Vision Workshop on Confronting the Theory Vacuum in Catchment
	Hydrology, Corvallis OR (with Kellie Vache)
2003	Workshop Organizer; IAHS/IUGG Isotopes in Water Cycle Models, Sapporo
	Japan (with John Gibson and Pradeep Aggarwal), Sapporo Japan.
2003	Symposium Organizer, IAHS/IUGG, Prediction in Ungauged Basins, (with Enda
	O'Connell and M. Sivapalan), Sapporo Japan.
2001	Conference Co-organizer, Chapman Conference on Catchment Runoff
	Processes and Modeling (with Larry Band), American Geophysical Union,
	Sunriver OR

2000	Conference Co-Convener, International Workshop on Runoff Generation and Implications for River Basin Modeling, Freiburg, Germany (with Stefan Uhlenbrook and Chris Leibundgut).
2000	Conference Organizing Committee member, IUFRO and UNESCO Symposium Forests-Water-People in the humid tropics Past, Present and Future Hydrological Research for Integrated Land and Water Management, Kuala Lumpur, Malaysia
2000	Conference Organizer, USA-Japan Workshop on Forest Catchment Hydrology and Biogeochemistry, National Science Foundation, Japan JSPS and IGBP BAHC.
2000	Symposium Co-convener, Symposium 4: Integrated Methods of Catchment Hydrology - Tracer, Remote Sensing and New Hydrometric Techniques (with Chris Leibundgut, G. Schultz and D. Collins), IUGG/IAHS International Union of Geodesy and Geophysics and International Association of Hydrological Sciences, Birmingham, UK,
1997	Conference Organizer, Syracuse Catchment Hydrology Meeting, Syracuse New York
1996	Symposium Technical Chair, AWRA Summer Symposium <i>Watershed Restoration: Physical, Chemical and Biological Controls</i> , AWRA (American Water Resources Association) Symposium, Syracuse, NY.
1995	Symposium Co-convener, <i>Tracer Technologies in Hydrology</i> (with Chris Leibundgut), IUGG/IAHS International Union of Geodesy and Geophysics and International Association of Hydrological Sciences, Boulder, Colorado.
1993	Conference Organizer, Syracuse Catchment Hydrology Meeting, Syracuse New York
Conference Session Organization:	

2014	American Geophysical Union Fall Meeting, Session on <i>Ecohydrology.</i> (with Brad Wilcox and others), San Francisco CA
2014	1 st International TERENO Conference, Session on <i>Modelling the Hydrosystem – Balancing of complexity and uncertainty</i> (with Sabine Attinger), Bonn, Germany
2013	American Geophysical Union Fall Meeting, Session on <i>Hydropedology</i> (with Henry Lin and others), San Francisco CA
2013	Canadian Geophysical Union Meeting, Isotope Hydrology and Climatology (with Julian Klaus and others), Saskatoon SK.
2012	American Geophysical Union Fall Meeting, Session on The value of long term streamflow records.(with Tim Burt and others), San Francisco CA
2008	European Geophysical Union, Session on Benchmarking the prediction in ungauged basin (PUB) initiative, (with Guenter Bloeschl), Vienna Austria.
2006	American Geophysical Union Fall Meeting, Session on <i>DOC fate and transport:</i> from molecular to catchment scales (with Tim Burt and others), San Francisco CA
2006	American Geophysical Union Fall Meeting, Session on Watershed Characterization. (with Andrew Binley and others), San Francisco CA
2005	American Geophysical Union Fall Meeting, Session on <i>The life and contributions of John Hewlett</i> , (with Doug Burns), San Francisco CA
2005	American Geophysical Union Fall Meeting, Session on Hydropedology (with Henry Lin)

2005	American Geophysical Union Fall Meeting, Session on Prediction in Ungauged Basins (with Thorsten Wagener, Brian McGlynn)
2005	International Association of Hydrological Sciences, Session on <i>Tracers and Remote Sensing</i> , (with John Gibson and Al Pietroniro), Foz Iguacu, Brazil
2004	American Geophysical Union / Canadian Geophysical Union Meeting, Session on <i>Isotope Tracing of Water and Carbon Cycling in Large River Basins,</i> (with P. Agarwal and J. Gibson), Montreal Canada
2004	Geological Society of America, Session on Future of Applied Tracers in Hydrogeology, (with Craig Devine), Denver CO
2004	American Geophysical Union / Canadian Geophysical Union Meeting, Session on Catchment Classification (with Kellie Vache), Montreal Canada
2003	American Geophysical Union Fall Meeting, Session on <i>Hillslope Hydrology</i> (with Larry Band and Markus Weiler), San Francisco CA
2003	MODSIM 2003, Session on <i>Measurements and Modeling in Catchment Hydrology</i> , (with Markus Weiler) Townsville, Australia
2002	American Geophysical Union Fall Meeting, Session on Watershed Hydrology and Biogeochemistry (with Mike Goeseff and Dave DeWalle), San Francisco CA American Geophysical Union Fall Meeting, Session on Hydroecology of Mountain Catchments (with Mark Williams), San Francisco CA
1999	American Geophysical Union Spring Meeting, Session on Watershed Hydrology: Physical, Chemical and Policy Issues, Boston Mass.
1997	American Geophysical Union Fall Meeting, Session on <i>Use of Tracers for Understanding Hydrological Processes</i> , (with Chris Leibundgut), San Francisco CA.
1997	Gordon Research Conference on Hydrobiogeochemistry of Forested Watersheds, Workshop Leader <i>Innovations in Field Monitoring Techniques</i> (with Frank Bowles and Greg Lawrence), Plymouth, New Hampshire.
1997	American Geophysical Union Spring Meeting, Session on <i>Hydrograph</i> Separation Techniques in Catchment Hydrology, (with Jamie Shanley), Baltimore MD.
1995	American Geophysical Union Spring Meeting, Session on <i>Interactions Between Water and Solutes in Small Catchments</i> , (with Carol Kendall), Baltimore MD.
1994	Western Pacific Geophysical Meeting, Session on <i>Headwater Hydrology and Slope Stability</i> , (with Roy Sidle), Hong Kong.
1993	American Geophysical Union Fall Meeting, Session on Runoff Pathways in Small Catchments, San Francisco, CA.
1992	Western Pacific Geophysical Meeting, Session on <i>Hillslope Hydrology</i> , Hong Kong.
1991	American Geophysical Union Fall Meeting, Session on <i>Isotope Tracing in Small Catchments</i> , (with Carol Kendall), San Francisco, CA.

International Conference Steering Committees:

	$oldsymbol{\omega}$
2008	Member, Science Steering Committee, 2 nd China-PUB Conference, Sichuan
	University, Chengdu, China.
2006	Member, Science Steering Committee, 1st China-PUB Conference, Tsinghua
	University, Beijing China.
2004-	Member, International Technical Committee, International Conference on

	Reservoir Operation & River Management (ICROM), Sun Yat-sen University, China
0000	
2003	Member, Science Steering Committee, British Hydrological Society 2 nd
	International Hydrology Conference, Imperial College London, London UK
2000	Member, Scientific Advisory Committee, Workshop on Runoff Generation
	Modeling, Freiburg University, Freiburg Germany.
1998	Member, International Technical Committee, Civil and Environmental
	Engineering Year 2000, New Frontiers and Challenges, Asian Institute of
	Technology, Bangkok,
	Thailand.

Papers in preparation, conference papers, abstracts and reports are omitted

PROFESSIONAL SERVICE Academic Courses Taught

Academic O	ourses raught
2019-	Catchment Science (SENS graduate course, taught at Beijing Normal University)
2016-	Isotope Tracers in Catchment Hydrology, (graduate course, SENS), Univ. of
	Saskatchewan.
2015	Isotopes in the Biosphere (graduate course, SENS), Univ. of Saskatchewan.
2013-18	Breakthroughs in Water Security Research (graduate course, SENS), Univ. of
	Saskatchewan.
2012	The Hydrology of Canada (2 nd year Undergraduate Course), Univ. of
	Saskatchewan.
2008-	The Future Professoriate (a course for PhD students, Post Docs and Assistant
	Professors interested in pursuing an academic career; (at Oregon State
	University and University of Saskatchewan)
1989-2012	Hillslope and Watershed Hydrology (senior undergraduate/graduate course),
	USU, ESF, OSU and University of Saskatchewan (now in shortcourse format)
1990-2012	Field Hydrology (senior undergraduate/graduate course), ESF, OSU.

Proposal Reviewer for: National Science Foundation (Programs: Hydrological Sciences, Geosciences, Geographical and Regional Science, Ecology, EPSCoR), Environmental Protection Agency, Canadian GEWEX Program, National Science and Engineering Research Council (Canada), Utah State University, University of Puerto Rico, State University of New York, New York McIntire-Stennis Program, Longman Group Publishing Ltd. (UK), John Wiley and Sons (UK), U.S. Geological Survey (Water Resources Centers in Pennsylvania and New York), University of North Carolina, Canada Center for Innovation, ETH Zurich, Illinois Water Survey, Oregon State University; Swiss National Science Foundation; Australia National Science Foundation; The Nuffield Foundation (UK); The Leverhulme Trust (UK), NERC Program, LOCAR Instrumented Catchment Network, Government of Western Australia, Utah State University.

Journal Reviewer for: Nature, Nature-Geoscience, PNAS, Wires Water, Water Resources Research, Hydrological Processes, Journal of Hydrology, Water Resources Bulletin, Advances in Water Resources, ASCE Journal of Irrigation and Drainage ASCE Journal of Hydrologic Engineering, Atmospheric Research, Water Air and Soil Pollution, Geofísca Internacional, Boreal Environment Research, Soil Science Society of America Journal, Hydrological Sciences

Journal, Hydrology and Earth Systems Science, Review of Environmental Science, Water SA, Ecohydrology..

External International Examiner (PhD Theses, Faculty Review): UC Santa Barbara, Duke University, The University of Western Australia, University of Waterloo, University of Toronto, ETH Zurich, University of British Columbia, University of Adelaide; University of Edinburgh; SUNY-ESF; UC Berkeley; Australia National University; University of Maryland; University of Western Ontario; University of South Carolina; Portland State University; University of San Diego; Louisiana State University; University of Canterbury; University of Melbourne; University of Newcastle; UBC Kelowna; University of Mass.; Freiberg University; Utah State University; Colorado State University, Delft University of Technology, The Royal Society (UK), The Royal Society (New Zealand), University of North Carolina, CSIRO (Australia), Canada Research Chair Program..

Conference and Workshop Organization:

2011		Forest I belge on Wiscon and outlant Deutland One con
201		Forest Hydrology: Vision and outlook, Portland Oregon.
2014	4	Chapman Conference on Spatial organization and complex behavior of
		intermediate scale catchments (Co-convener with 5 others), Luxembourg
2013		Subsurface Networks in Ecohydrology (with Larry Band), Chapel Hill, NC.
201	0	Chapman Conference on Examining Ecohydrological Feedbacks of landscape
		change along elevation gradients in semi-arid regions, (with Brad Wilcox, David
		Breshears, Mark Seyfried), Sun Valley Idaho.
2009	9	State of the Art of Residence Time Computation, Analysis and Modeling, IAEA
		Vienna Austria
200	7	IAHS-IUGG General Assembly, IAHS Main Program, Perugia, Italy
2000		NSF-sponsored USA PUB Workshop, October 2006 Corvallis OR
200		UNESCO-sponsored PUB-HELP-FRIEND Workshop, Corvallis OR
200		Slope Intercomparison Experiment (SLICE) International Workshop, HJ Andrews
2000	5	Experimental Forest, September 2005
2004	1	CUAHSI Vision Workshop on Confronting the Theory Vacuum in Catchment
200-	T	Hydrology, Corvallis OR (with Kellie Vache)
2003	2	Workshop Organizer; IAHS/IUGG <i>Isotopes in Water Cycle Models</i> , Sapporo
200	3	
000	2	Japan (with John Gibson and Pradeep Aggarwal), Sapporo Japan.
2003	3	Symposium Organizer, IAHS/IUGG, Prediction in Ungauged Basins, (with Enda
000		O'Connell and M. Sivapalan), Sapporo Japan.
200	1	Conference Co-organizer, Chapman Conference on Catchment Runoff
		Processes and Modeling (with Larry Band), American Geophysical Union,
		Sunriver OR
2000	0	Conference Co-Convener, International Workshop on Runoff Generation and
		Implications for River Basin Modeling, Freiburg, Germany (with Stefan
		Uhlenbrook and Chris Leibundgut).
2000	0	Conference Organizing Committee member, IUFRO and UNESCO Symposium
		Forests-Water-People in the humid tropics Past, Present and Future Hydrological
		Research for Integrated Land and Water Management, Kuala Lumpur, Malaysia
2000	0	Conference Organizer, USA-Japan Workshop on Forest Catchment Hydrology
		and Biogeochemistry, National Science Foundation, Japan JSPS and IGBP
		BAHC.
200	1	Symposium Co-convener, Symposium 4: Integrated Methods of Catchment
_00	•	Symposium of deliverior, Cymposium in mogratica moundae or outermont

	Hydrology - Tracer, Remote Sensing and New Hydrometric Techniques (with Chris Leibundgut, G. Schultz and D. Collins), IUGG/IAHS International Union of
	Geodesy and Geophysics and International Association of Hydrological Sciences, Birmingham, UK,
1997	Conference Organizer, Syracuse Catchment Hydrology Meeting, Syracuse New York
1996	Symposium Technical Chair, AWRA Summer Symposium <i>Watershed</i> Restoration: Physical, Chemical and Biological Controls, AWRA (American Water Resources Association) Symposium, Syracuse, NY.
1995	Symposium Co-convener, <i>Tracer Technologies in Hydrology</i> (with Chris Leibundgut), IUGG/IAHS International Union of Geodesy and Geophysics and International Association of Hydrological Sciences, Boulder, Colorado.
1993	Conference Organizer, <i>Syracuse Catchment Hydrology Meeting</i> , Syracuse New York
Conforon	on Sossian Organization:

Conference	Conference Session Organization:		
2014	American Geophysical Union Fall Meeting, Session on <i>Ecohydrology.</i> (with Brad Wilcox and others), San Francisco CA		
2014	1st International TERENO Conference, Session on <i>Modelling the Hydrosystem – Balancing of complexity and uncertainty</i> (with Sabine Attinger), Bonn, Germany		
2013	American Geophysical Union Fall Meeting, Session on <i>Hydropedology</i> (with Henry Lin and others), San Francisco CA		
2013	Canadian Geophysical Union Meeting, Isotope Hydrology and Climatology (with Julian Klaus and others), Saskatoon SK.		
2012	American Geophysical Union Fall Meeting, Session on The value of long term streamflow records.(with Tim Burt and others), San Francisco CA		
2008	European Geophysical Union, Session on Benchmarking the prediction in ungauged basin (PUB) initiative, (with Guenter Bloeschl), Vienna Austria.		
2006	American Geophysical Union Fall Meeting, Session on DOC fate and transport: from molecular to catchment scales (with Tim Burt and others), San Francisco CA		
2006	American Geophysical Union Fall Meeting, Session on Watershed Characterization. (with Andrew Binley and others), San Francisco CA		
2005	American Geophysical Union Fall Meeting, Session on <i>The life and contributions of John Hewlett</i> , (with Doug Burns), San Francisco CA		
2005	American Geophysical Union Fall Meeting, Session on Hydropedology (with Henry Lin)		
2005	American Geophysical Union Fall Meeting, Session on Prediction in Ungauged Basins (with Thorsten Wagener, Brian McGlynn)		
2005	International Association of Hydrological Sciences, Session on <i>Tracers and Remote Sensing</i> , (with John Gibson and Al Pietroniro), Foz Iguacu, Brazil		
2004	American Geophysical Union / Canadian Geophysical Union Meeting, Session on <i>Isotope Tracing of Water and Carbon Cycling in Large River Basins</i> , (with P.		
2004	Agarwal and J. Gibson), Montreal Canada Geological Society of America, Session on <i>Future of Applied Tracers in Hydrogeology</i> , (with Craig Devine), Denver CO		

2004	American Geophysical Union / Canadian Geophysical Union Meeting, Session on Catchment Classification (with Kellie Vache), Montreal Canada
2003	American Geophysical Union Fall Meeting, Session on <i>Hillslope Hydrology</i> (with Larry Band and Markus Weiler), San Francisco CA
2003	MODSIM 2003, Session on <i>Measurements and Modeling in Catchment Hydrology</i> , (with Markus Weiler) Townsville, Australia
2002	American Geophysical Union Fall Meeting, Session on Watershed Hydrology and Biogeochemistry (with Mike Goeseff and Dave DeWalle), San Francisco CA American Geophysical Union Fall Meeting, Session on Hydroecology of Mountain Catchments (with Mark Williams), San Francisco CA
2000	American Geophysical Union Spring Meeting, Session on Watershed Hydrology: Physical, Chemical and Policy Issues, Boston Mass.
1997	American Geophysical Union Fall Meeting, Session on <i>Use of Tracers for Understanding Hydrological Processes</i> , (with Chris Leibundgut), San Francisco CA.
1997	Gordon Research Conference on Hydrobiogeochemistry of Forested Watersheds, Workshop Leader <i>Innovations in Field Monitoring Techniques</i> (with Frank Bowles and Greg Lawrence), Plymouth, New Hampshire.
1998	American Geophysical Union Spring Meeting, Session on <i>Hydrograph</i> Separation Techniques in Catchment Hydrology, (with Jamie Shanley), Baltimore MD.
1995	American Geophysical Union Spring Meeting, Session on <i>Interactions Between Water and Solutes in Small Catchments</i> , (with Carol Kendall), Baltimore MD.
1994	Western Pacific Geophysical Meeting, Session on <i>Headwater Hydrology and Slope Stability</i> , (with Roy Sidle), Hong Kong.
1993	American Geophysical Union Fall Meeting, Session on Runoff Pathways in Small Catchments, San Francisco, CA.
1992	Western Pacific Geophysical Meeting, Session on <i>Hillslope Hydrology</i> , Hong Kong.
1991	American Geophysical Union Fall Meeting, Session on <i>Isotope Tracing in Small Catchments</i> , (with Carol Kendall), San Francisco, CA.
International	Conference Steering Committees:
2008	Member, Science Steering Committees, 2 nd China-PUB Conference, Sichuan University, Chengdu, China.
2006	Member, Science Steering Committee, 1st China-PUB Conference, Tsinghua

2008	Member, Science Steering Committee, 2 th China-PUB Conference, Sichuan
	University, Chengdu, China.
2006	Member, Science Steering Committee, 1st China-PUB Conference, Tsinghua
	University, Beijing China.
2004-	Member, International Technical Committee, International Conference on
2004-	·
	Reservoir Operation & River Management (ICROM), Sun Yat-sen University,
	China
2003	Member, Science Steering Committee, British Hydrological Society 2 nd
	International Hydrology Conference, Imperial College London, London UK
2000	, , , , , , , , , , , , , , , , , , , ,
2000	Member, Scientific Advisory Committee, Workshop on Runoff Generation
	Modeling, Freiburg University, Freiburg Germany.
1998	Member, International Technical Committee, Civil and Environmental
	Engineering Year 2000, New Frontiers and Challenges, Asian Institute of
	Technology, Bangkok,
	r contrology, barrighton,

Thailand.

Membership: American Geophysical Union (since 1985), New Zealand Hydrological Society (since 1986), Society of American Foresters (since 1989), Association of American Geographers (since 1988), American Water Resources Association (since 1990), American Association for the Advancement of Science (since 1991), British Geomorphological Research Group (since 1996), Japan Society of Hydrology and Water Resources (since 1996), American Institute of Hydrology (since 1997), Soil Science Society of America (since 2014), AAAS (since 2014).

RESEARCH FUNDING: Total as PI: ~\$13,000,000

RESEARCH FUNDING: Total as PI and Co-PI: ~\$110,000,000

RESEARCH GRANTS (APPLIED RESEARCH) FUNDED

The GREEN Facility (Principal Investigator):

Funded by Western Economic Diversification (WED) (\$643,701, with match to total \$1.3M), 2017-2020

Quantifying the effect of freeze-thaw cycles on mine cover design and performance; NSERC Collaborative Research and Development Grant (Principal Investigator): Funded by NSERC and O'kane Consultants (\$200,000)

The Mine Overlay Soil Test (MOST) Facility (Principal Investigator): Funded by Western Economic Diversification (WED) (\$1,846,000, with match to total \$5M), 2015-2018

Salt release from soil sands reclamation covers, Co-Principal Investigator Funded by Syncrude (\$85,000), 2014-2015.

Water use by Eucalyptus, Co-Principal Investigator
Funded by the US Dept of Energy (\$1.2M USD; \$208,512 to U of S), 2014-2019

Hydrological impacts of cellulosic-based biofuel production: Principal Investigator Funded by the Dept. of Energy (\$325,000), 2009-2010.

Combining field work and modeling to explore forest management effects on streamflow: Phase 1: Principal Investigator

Funded by the National Council for Air and Stream Improvement (\$75,000), 2006-2007.

Hydrological performance of cover systems at the Green Creek Mine: A combined field-modeling analysis: Principal Investigator

Funded by Kennecott Greens Creek Mine (\$420,000), 2006-2009.

Hillslope Hydrology of the Savannah River Site—Watershed Scale Analysis: Principal Investigator

Funded by the US Forest Service (\$100,000), 2006-2007

Hillslope Hydrology of the Savannah River Site for Tritium Phytoremediation: Principal Investigator

Funded by the US Forest Service (\$90,000), 2004-2005

A Combined Watershed-Reservoir Model for the Croton Watershed, New York; Co-Principal Investigator.

Funded by: New York City, Dept. of Environmental Protection, (\$6,300,000), 1999-2002.

Preliminary evaluation of linked watershed reservoir models; Co-Principal Investigator Funded by: New York City, Dept. of Environmental Protection, (\$65,000), 1998-1999.

Contaminant Transport from Buried Galleys: A combined Physical, Chemical and Isotopic Study; Principal Investigator

Funded by: New York City, Dept. of Environmental Protection (\$1,400,000), 1997-1998.

Subsurface Stormflow and Contaminant Transport; Principal Investigator Funded by: New York City, Dept. of Environmental Protection (\$600,000), 1997-1998

Evaluation of Non-Point Pollutant Removal by Best Management Practices; Principal Investigator

Funded by: New York City, Dept. of Environmental Protection (\$275,000), 1994-1996.

RESEARCH GRANTS (BASIC RESEARCH) FUNDED

Storage, mixing and release of water at the catchment scale (Principal Investigator) Funded by NSERC Discovery Grant Research Accelerator (\$570,000), 2019-2024

Global Water Futures, (Co-Principal Investigator) Funded by NSERC (\$77M), 2016-2023

Water storage and release (Principal Investigator)
Funded by NSERC Discovery Grant Program (\$425,000), 2014-2019

Water storage and release (Principal Investigator)
Funded by NSERC Discovery Grant Research Accelerator (\$120,000), 2014-2019

Isotope studies of watershed storage and release in the CCRN watersheds. (Principal Investigator)

Funded by NSERC Network Program, (\$32,000), 2014-2015.

Vegetation effects on water flow in high-latitude ecosystems (Co-Investigator)
Funded by the European Research Council, (1.5M Euros, no direct \$ to U of S; funds U of S
Post Doc visits and travel), 2014-2019.

Water sustainability in the Willamette Basin, Oregon (Principal Investigator) Funded by NSF Hydrological Science (\$4.3 M), 2010-2015.

Development of a new field based water isotope analyse, Phase II: Principal Investigator Funded by the Dept. of Energy, (\$70,000), 2010-2011.

Development of a new field based water isotope analyse, Phase 1: Principal Investigator Funded by the Dept. of Energy, (\$35,000), 2009-2010.

An integrated investigation of nutrient generation and delivery processes and pathways from paddock to small catchment scales

Co-Principal Investigator

Funded by the Australian Research Council, (\$440,000 AUS) 2009-2012.

Ecohydrological controls on watershed response to land use change in the montane cloud forest zone in Central Veracruz, Mexico

Co-Principal Investigator

Funded by NSF Hydrological Sciences and NSF Ecology Programs (\$1,500,000) 2007-2011

Headwater stream processes revealed by continuous ultra-high resolution thermal measurement

Co-Principal Investigator

Funded by NSF Hydrological Sciences Program (\$193,000), 2007-2009.

Understanding ecohydrological coupling in upland humid watersheds for soil and water management

Principal Investigator

Funded by International Atomic Energy Agency (IAEA) (8,000 Euros per year), 2008--

USA PUB Workshop for defining CUAHSI community science questions, Principal Investigator Funded by NSF Hydrological Sciences Program (\$80,000) 2005-2007

Processes of Water Cycling and Streamflow Generation in Semi-Arid Watersheds in Eastern Washington (3) – Isotope Tracing of Water Sources; Principal Investigator Funded by the US Forest Service (\$50,000), 2004-2005

Development of the Willamette Basin Watershed for UNESCO Hydrology, Environment, Life and Policy Program, Principal Investigator "Funded" by UNESCO, 2004-

Towards a new theoretical framework for watershed hydrology, Principal Investigator Funded by: Consortium of Universities for the Advancement of Hydrological Sciences, (\$9,000) 2004

Use of isotope tracers to detect water source and water age at the HJ Andrews Experimental Forest; Principal Investigator

Funded by NSF HJ Andrews LTER Program (\$20,000) 2004-2005

The Institute for Water and Watersheds Initiative; Co-Principal Investigator Funded by the OSU Provost's Office, (\$1,500,000), 2005-2009

Catchment water residence time: understanding the relation between landscape organization and runoff characteristics, Co-Principal Investigator

Funded by Dutch Science Foundation (\$250,000 EU), 2005-2007

A Physically Based Method for Spatial Interpolation of Soil Measurements; Co-Principal Investigator

Funded by the Australia Research Council (\$260,825 AU), 2005-2007

Processes of Water Cycling and Streamflow Generation in Semi-Arid Watersheds in Eastern Washington (2) – Snowmelt Hydrology: Principal Investigator Funded by the US Forest Service (\$50,000), 2004-2005

Modeling Mesoscale Flows in the Maybeso Catchment; (2) – Documenting Rainfall Spatial Patterns, Principal Investigator

Funded by the US Forest Service (\$50,000), 2004-2005

Processes of Water Cycling and Streamflow Generation in Semi-Arid Watersheds in Eastern Washington (1) – Understanding Landuse Effects on Water quantity and Quality: Principal Investigator

Funded by the US Forest Service (\$100,000), 2003-2004

Modeling Mesoscale flows in the Maybeso Catchment (1) - Principal Investigator Funded by the US Forest Service (\$86,000), 2003-2004

Hillslope Hydrology of the Oregon Coast Range: Principal Investigator Funded by: BLM and US Forest Service (\$218,000), 2002-2003

US-German Exchange Proposal for Hydrological Modeling; Principal Investigator Funded by: National Science Foundation International Division (\$8,000), 2001-2002.

Sources and Sinks of Nitrogen Within a Forested Watershed; Co-Principal Investigator Funded by: NSF Environmental Biology and Ecosystem Studies (\$659,000), 2000-2002.

Topographical Linkages Between Nitrogen and Organic Carbon Solutes Within a Forested Watershed; Co-Principal Investigator

Funded by: USDA Competitive Grants Program (\$100,000), 1999-2002

Hillslope hydrology of the Maybeso Watershed, SE Alaska; Principal Investigator Funded by the US Forest Service (\$50,000), 2001-2002

Joint Seminar on Hydrology and Biogeochemistry of Forested Headwater Catchments; Principal Investigator.

Funded by: NSF International Programs, (\$20,000), 1999-2000.

BAHC Workshop on Hydrology and Biogeochemistry of Forested Headwater Catchments; Principal Investigator.

Funded by: International Geosphere-Biosphere Program, (\$5,000), 2000.

International Supplement: Hillslope-Riparian Zone Reservoir Mixing: A Multi-Catchment Test of a New Methodology for Predicting Stream Chemistry; Principal Investigator Funded by: NSF International Programs, (\$63,242).

Hillslope-Riparian Zone Reservoir Mixing: A Multi-Catchment Test of a New Methodology for Predicting Stream Chemistry; Principal Investigator

Funded by: NSF Hydrological Sciences Program (\$330,000), 1999-2001

Effects of Forest Harvesting on Streamflow Generation and Water Quality in a Catskill Mountain Watershed; Co-Principal Investigator

Funded by: USDA McIntire Stennis Program (\$75,630), 1997-1999.

Development of an Evolutionary Flow Path Model of Water and Solutes; Principal Investigator Funded by: NSF Hydrological Sciences Program (\$300,000), 1994-1997.

A Spatial/Temporal Investigation of the Hydrology and Biogeochemistry of N Transport within a Forested Hillslope/Wetland/Lake Ecotone; Principal Investigator Funded by: USDA Competitive Grants Program (\$120,000), 1994-1996.

Mapping Soil Macropores in a Japanese Cedar Catchment; Principal Investigator. Funded by: EARTHWATCH (\$11,000), 1994.

A Water Module for the NY State Environmental Science Program; Co-Principal Investigator Funded by: SUNY Central Office of Educational Technology (\$12,000), June - Dec. 1994.

Evaluation of Hydrological and Biogeochemical Pathways and Fluxes in a Forested Watershed in the Adirondack Mountains; Co-Principal Investigator Funded by: USDA McIntire Stennis Program (\$66,630), 1994-1997.

A Watershed Simulation Model With Vegetation; Principal Investigator. Funded by: NSF Hydrological Sciences Program (\$156,559), 1993-1994.

Mapping Soil Macropores in a New Zealand Rainforest Catchment, Principal Investigator. Funded by: EARTHWATCH (\$35,000), 1992.

Earth Systems Science Education Program for Utah State University; Principal Investigator/Instructor.

Funded by: NASA Headquarters and USRA (\$105,000), 1992-1993.

Watershed Runoff Production in the Intermountain West at Varying Forested Basin Scales; Principal Investigator.

Funded by: Utah Agricultural Experiment Station (\$13,900), 1991-1995.

Snowmelt Erosion From Simulated Waste Burial Trench Caps; Co-Investigator. Funded by: U.S. Department of Energy (\$101,000), 1991-1992.

Improvement and Further Development of SSM/I Overland Parameter Algorithms Using the WetNet Workstation; Co-Principal Investigator.

Funded by: NASA Headquarters (\$225,926), 1991-1994.

A Spatially Distributed Water Balance Based on Physical, Isotopic and Airborne Remotely Sensed Data; Co-Principal Investigator.

Funded by: U.S. Geological Survey 105 Program (\$350,234), 1991-1993.

Snowmelt Energy Balance and Melt Infiltration in Complex Terrain; Principal Investigator. Funded by: Utah State University (\$16,000), 1991-1992.

Effects of Streambank Erosion on Water Quality; Co-Principal Investigator.

Funded by: U.S. Department of Agriculture Competitive Grants Program (\$282,353), 1991-1993.

Landslide Generation in a Laboratory Rainfall-Runoff Simulator, Principal Investigator. Funded by: Utah State University (\$15,179), 1990.

Snowmelt Processes in Northern Utah; Principal Investigator.

Funded by: Ecology Center, Utah State University (\$11,000), 1989.

Vegetation-induced Moisture Flux, With Implications for Global Climate Modeling; Co-Principal Investigator.

Funded by: NASA Marshall Space Flight Center (\$51,000), 1989.

Rainfall Oxygen-18 Variations in Mesoscale Events; Principal Investigator.

Funded by: NASA Marshall Space Flight Center (\$1,200), 1989.

OTHER PRESENTATIONS:

Local University Seminars:

- 2018 Dept of Civil and Geological Engineering, UofS, Saskatoon SK
- 2012 School of Environment and Sustainability, Saskatoon SK
- 2011 Dept. of Geosciences Seminar Series, OSU Corvallis OR
- 2011 Dept of Botany Seminar Series, OSU Corvallis OR
- 2010 OSU Stream Team Seminar Series, Corvallis OR
- 2006 Institute for Water and Watershed Graduate Orientation, OSU Corvallis OR
- 2004 OSU Math Department Seminar Series, OSU Corvallis OR
- 2004 HJA Science Hour, OSU Corvallis OR
- 2003 HJA Science Hour, OSU Corvallis OR
- 2003 OSU Hydrology Seminar Series, OSU Corvallis OR
- 2002 Dept. of Crop and Soil Science, OSU Corvallis OR
- 2002 Dept. of Bioresource Engineering, OSU, Corvallis OR
- 2002 Forest Engineering Seminar series, OSU Corvallis OR
- 2001 Oregon Dept of Forestry Workshop on Headwater Streams, Corvallis OR
- 2001 College of Forestry Freshman Class, Corvallis, OR
- 2000 HJ Andrews Annual Research Symposium, Corvallis, OR
- 2000 OSU Hydrophiles Group, Corvallis OR

- 2000 Dept. of Forest Engineering, OSU Corvallis OR
- 1998 Faculty of Forestry, SUNY-ESF, Syracuse, New York.
- 1996 Syracuse University, Dept. of Geology, Syracuse New York.
- 1996 Syracuse University, Dept. of Civil and Environmental Engineering, Syracuse, New York.
- 1996 Faculty of Forestry, SUNY-ESF, Syracuse, New York.
- 1995 Syracuse University, Dept. of Civil and Environmental Engineering, Syracuse, New York.
- 1992 Utah State University, Dept. of Civil and Environmental Engineering, Logan, Utah.
- 1991 Utah State University, Ecology Center, Logan, Utah.

Public Lectures:

- 2011 Society of American Foresters, North Coast Chapter, Cannon Beach OR
- 2009 Distinguished Professor Inaugural lecture, Memorial Union OSU.
- 2007 President's Circle, Development Fund Event, Seattle Athletic Club, Seattle WA
- 2006 Golder and Associates, Mining Engineering Group, Vancouver BC Canada
- 2003 CH2MHill, Portland OR office
- 2002 Golder and Associates, Mining Engineering Group, Vancouver BC Canada
- 1999 State Legislature of New York, SMART-NY Forum.
- 1998 SUNY-ESF Board of Trustees Meeting, Syracuse, New York.
- 1997 SUNY Brockport, Dept. of Earth Sciences, Keynote Speech for the Annual Awards Banquet.
- 1994 American Water Resources Association, Salt City Student Chapter, Syracuse, New York.
- 1994 Society of American Foresters, Syracuse New York Student Chapter, Syracuse, New York.
- 1992 California Earthwatch Society, Los Angeles, California, New York.
- 1990 Huntsville Geological Society, Huntsville, Alabama, New York.
- 1988 Royal Commonwealth Society, Keynote Speech for Annual Meeting, Christchurch, New Zealand.

GRADUATE PROGRAM (* denotes co-supervision):

MS Theses Directed (21)

Allen, S., Isotopic composition of throughfall (co-advised with Barb Bond). MS Water Resources Engineering, OSU, June 2012. [now Post Doc, ETH Zurich].

Alley, D. Sources of storm runoff in a semi-arid basin. MF in Forest Engineering, OSU. Feb 2007. [now Forest Hydrologist, Valley Forestry, Oregon].

Awasthi, K. 1995. A laboratory model of hillslope runoff. M.S. Plan B, SUNY-ESF, 35pp. [now Dean of the Forestry School, Pokera Nepal

Brammer, D. 1996. Hillslope hydrology of a small forested catchment, Maimai New Zealand. M.S. SUNY-ESF, 90pp. plus appendices. [now Research Hydrologist, U.S. Army Corps of Engineers, New England District].

Brown, V. 1996. The role of event water, rapid shallow flowpaths and catchment size in summer stormflow. M.S. SUNY-ESF, 73pp. plus appendices.

Callery, D. Assessment of DEM-based terrain indices. MS in Water Resources Science, OSU, June 2007. [now Forest Hydrologist, USFS Helena-Lewis and Clark, MT].

Chad, S., Evaporation from tailings ponds, Oil Sands Alberta. MSc in Civil Engineeirng, UofS, expected completion December 2018 (co-advised with Lee Barbour).

Gabrielli, C. A new portable drill rig for remote rock aquifer study. MS in Water Resource Science, OSU, June 2011. [now Post Doc, Oregon State University].

Guselle. Isotope analysis of the water balance of a lysimeter. Masters of Water Security, UofS, expected completion Sept 2018.

Kendall, K. 1997. Snowmelt runoff in steep humid areas: A test of the transmissivity feedback mechanism at the Sleepers River watershed. M.S. SUNY-ESF, 142pp.* [now Staff Scientist, Vermont Natural Resources Council].

Kumar, V. 1993. Development of GIS-based water quality model using AgNPS. M.S. Thesis, Civil and Environmental Engineering. Utah State University, 56pp.

Mazurkiewicz, A. 2006. Modeling snowmelt hydrology using the physically-based SNOBAL model. MS in Forest Engineering, OSU. 82pp. [now Senior Scientist, City of San Francisco].

McGlynn, B. 1997. Flowpaths in the riparian zone: Reconciling hydrometric, chemical and isotopic evidence. M.S. SUNY-ESF 78pp.* [now Professor, Duke University].

McIntosh, J. 1996. The effects of preferential flow on soil water movement and conservative solute transport in large intact soil cores. M.S. SUNY-ESF, 69pp. [now Senior Scientist, CH2MHill].

Millar, C., 2016. Soil water extraction effects on stable isotope composition. MSc SENS and CREATE Program in Water Security, U of S., expected completion date Sept. 2018.

Patchett, S. 1999. Comparison of mixing models for isotope hydrograph separation. M.S. SUNY-ESF, 49pp.*

Sauter, K. 1991. The use of bulk aerodynamic formulae for determining latent and sensible heat flux over melting snow: A field-based approach. M.S. Watershed Science, Utah State University, 110, pp. [now Senior Scientist, Campbell Scientific Inc].

Taratoot, M. 1993. Moisture and energy conditions in a sloping laboratory soil mass. M.S.Watershed Science, Utah State University, 75pp. [now Senior Scientist, City of Corvallis].

Victory, N. 2007. Quantifying dispersion in subsurface stormflow. MS in Civil and Environmental Engineering, OSU June 2007 *

Welsch, D. 1999. Nitrogen flushing in the Catskill Mountains. M.S. SUNY-ESF, 74pp.* [now Professor, American University].

Zumbuhl, A. 1998. Spatial modeling of soil depth and landscape variability in a small forested catchment. M.S. SUNY-ESF, 119pp.

PhD Theses Directed (24)

Barnard, H. Ecohydrological processes at the HJ Andrews LTER. PhD (Forest Science; coadvised with Barb Bond), Aug 2008. Awarded AGU Horton Research Grant, 2009 [now Associate Professor, University of Colorado, Boulder].

Burns, D. 1999. The hydrochemical evolution of stormflow in a forested Piedmont catchment. Ph.D. SUNY-ESF, 192pp. [now Senior Scientist, USGS Troy NY].

Coles, A., 2017. Overland flow processes on Prairie plots: the role of microtopography. PhD University of Saskatchewan [now Post Doc, Wilfred Laurier University].

Evaristo, J., 2016. The two water worlds hypothesis. PhD University of Saskatchewan, 172pp.[now Assistant Professor, University of Nevada, Reno].

Frentress, J, 2015. The role of riparian zones in controlled water and chemical flux. Oregon State University, 197pp. [now Post Doc, University of Florence].

Gabrielli, C., The role of bedrock groundwater at multiple stream scales. PhD anticipated Sept 2017. Awarded Horton Research Grant, AGU 2014 [now Post Doc, Oregon State University]

Graham, C. Bedrock influences on subsurface stormflow generation. PhD. Aug. 2008. [now Senior Scientist, City of San Francisco].

Goff, B.G. 1991. Hydrologic and erosion response of a disturbed sagebrush hillslope. Ph.D. Watershed Science, Utah State University, 138pp. [now Senior Scientist, GeomorphIS, San Diego].

Hale, C. Effects of forest harvesting on streamflow generation processes, Ph.D. Forest Engineering, Oregon State University, anticipated completion date summer 2011 Awarded AGU Horton Research Grant 2010 [now Senior Scientist and Principal, Nutter and Associates].

Harris, D. 1995. A watershed simulation model with vegetation. Ph.D. Watershed Science, Utah State University, 285pp. [now retired].

Hjerdt, N. 2002. Scale effects on streamflow generation processes in till catchments. Ph.D. SUNY-ESF, 183pp [now Senior Scientist, SMHI Sweden].

McGuire, K. 2004. Water residence time distribution and water age spectra. Ph.D. Oregon State University, 232pp.[now Associate Professor, Virginia Tech University].

McGlynn, B. 2002. Characterizing Hillslope—Riparian—Stream Interactions: A scaling Perspective. Ph.D. SUNY ESF. 194 pp., **Awarded AGU Horton Research Grant 2003 [now Professor, Duke University].**

McHale, M. 1999. Hydrological controls of nitrogen cycling in an Adirondack watershed. Ph.D. SUNY-ESF, 221pp.* [now Senior Scientist, USGS Troy NY].

Nehmey, Magali, 2020. Plant water transpiration: sources and ages. PhD, UofS, expected completion May 2020 (co-advised with Colin Laroque)

Pangle, L. 2012, Ecohydrological interactions at the plot scale: Asymmetrical warming. Oregon State University, 231pp. [now Assistant Professor, Georgia State University].

Peskett, L., 2019, Runoff processes in peat covered Scottish catchments. PhD University of Edinburg, expected completion May 2019 (co-advised with Kate Heal)

Poor, CJ., 2006. Effect of landuse on streamwater nitrate. PhD (Civil and Environmental Engineering, 172 pp* [now Associate Professor, Oregon State University].

Sowat, S., Examination of tree source water in a tropical forest. PhD (Forestry), University of the Sunshine Coast, Sippy Downs, Australia, (co-advised with John Herbohn), anticipated completion December 2018.

Sun, C. 1995. Integration of special sensor microwave imager (SSM/I) and in situ data for snow studies from space. Ph.D. Watershed Science, Utah State University, 140pp. [now Senior Scientist, USDA California].

Tromp-VanMeerveld (now van Meerveld), I. 2004. Hillslope hydrology: from patterns to processes, Ph.D. Oregon State University, Corvallis. 270 p. [now Associate Professor, University of Zurich].

Unnikrishna, P.V. 1995. Stable isotope tracer study of flow generation mechanisms in a small, semi-arid mountain watershed. Ph.D. Civil and Environmental Engineering. Utah State University, 230pp. [now Senior Scientist, International Boundary and Water Commission, USA].

VanVeersveld, W. Hydrological controls on nutrient flushing at the hillslope scale. PhD. Sept. 2007 [now, Senior Scientist, DELTARES, The Netherlands].

Vega, A., University of Queensland, Plant water extractions from bauxite tailings. PhD (coadvised with John Herbohn), expected completion date Sept 2021.

Post-Doctoral Scholars (31)

Ali, Genevieve, PhD from University of Montreal, worked on *Process Hydrological Classification*, Sept 2010-Dec 2011 (co-advised with Doerthe Tetzlaff and Chris Soulsby). **[now Associate Professor at University of Manitoba].**

Ameli, Ali, PhD from University of Waterloo, working on *Numerical models of overland- and subsurface flow*, September 2014-January 2015; Sept-Dec 2016 [now Assistant Professor, UBC].

Appels, Willemijn., PhD from Wageningen University, working on *Overland Flow Modeling with Synthetic Microtopography*, November 2012 – June 2013 [now Assistant Professor at Lethbridge University].

Cirmo, Chris., Ph.D from Syracuse University, worked on *Hydrological-Biogeochemical Linkages in Nitrogen Cycling*, May 1994 - August 1994 **[was Dean at University Wisconsin Stephens Point; now deceased].**

Coles, Anna, PhD from UofS, worked on Mine Cover Hydrology During Melt of Frozen Ground, April-Dec 2017. **[now Post Doc, Laurier University].**

Evaristo, J., PhD from UofS, worked on Isotope tracing of plant water, Jan-Dec 2017. [now Assistant Professor, University of Nevada, Reno].

Freer, Jim., Ph.D. from Lancaster University, England, worked on *Development of a Hydrogeochemical Version of TOPMODEL*, January 1995 - January 1997. **[now Professor at Bristol University].**

Gaj, Marcel, PhD from Freiburg University, working on Tracing water vapour isotope composition in soils, November 2016 – October 2018.

Green, Hannah., Ph.D. from Lancaster University, England, worked on *Stormwater Management Modeling*, January 1995 - January 1997 [now Senior Scientist at the UK Environment Agency].

Inamdar, Shreeram, PhD from U. of West Virginia, worked on *Hydrobiogeochemical Modeling*, September 1999 – August 2001 (co-supervised with main advisor Myron Mitchell) [now Professor at University of Delaware].

James, April, PhD from McGill University, working on *Hillslope Flow Theory and Modeling*, Sept 2005-Aug 2007 [now Associate Professor at Nipissing University].

Jameel, Y, PhD from University of Utah, working on Bayesian Modeling of Dual Isotope Data, July-Dec 2018.

Jansen, Daryl., PhD from University of Saskatchewan, working on Directional Percolation Theory Approaches to Hydrological Modeling, October 2012 – September 2013 [now Assistant Professor at University of Saskatchewan].

Jasechko, Scott, PhD from University of New Mexico, worked on Fractions of Young Water in Global streamflow, May-September, 2014 [now Assistant Professor at UC Santa Barbara].

Hopp, Luisa, PhD from Braunsweig University, working on Hydrology of Mine Covers, Oct 2006-Dec 2011 [now Professor at Bayreuth University].

Keim, Richard, PhD from Oregon State University, worked on *Hillslope flow modeling with Throughfall Intensity Smoothing*, August 2003 – January 2004 [now Professor at Louisiana State University].

Kim, Kyongha, PhD from Seoul University, South Korea, worked on *Dynamics of Subsurface Stormflow and Macropore-Matrix Interactions*, June 1994 - June 1996 [now Director, Forest Research Institute, Seoul].

Klaus, Julian, PhD from University of Munich, Germany, working on *Time Varying Residence Time Distributions at the Watershed Scale*, April 2011-2016 [now Senior Scientist at the Luxembourg Institute for Science and Technology].

Munos-Villers, Lyssette, PhD from INECOL Mexico, working on *Cloud Forest Hydrological Processes*, August 2008-July 2011 [now Associate Professor at UNAM, Mexico City].

Orlowski, Natalie, PhD from University of Giessen, working on *Soil Water Extraction Techniques*, June 2014-June 2015 [now Assistant Professor at Freiburg University].

Pratt, Dyan, PhD from University of Saskatchewan, working on *Mine Cover Hydrology* and as MOST Facility Research Engineer, Jan 2016-19

Sayama, Takahiro, Ph.D. from Kyoto University, working on Incorporating Residence Times Estimates Into Model Structures and Testing, Aug 2007-July **2009** [now Associate Professor at Kyoto University].

Seibert, Jan, Ph.D. from Uppsala University, worked on *Distributed Watershed Modeling*, January 2000 – January 2001 [now Professor at University of Zurich].

Sherlock, Mark, Ph.D. from Lancaster University, England, worked on *Hillslope Tracer Experiments of Septic Leachate in the New York City Water Supply Watershed*, April 1998 - March 2001. [now, Senior Instructor, Breda International School, The Netherlands].

Simin, Qu, PhD from Hohai University, working on Isotope Hydrology of the HJ Andrews Experimental Forest (Sept 2006-Mar 2007) [now Professor at Hohai University].

Timsic, Sandra, PhD from University of Saskatchewan, working on *Isotope Tracing of Water Balance Components Using Water and Vapor Extraction*, April 2013 – January 2014 [now Senior Research, Dept of Geological Sciences, UofS].

Uchida, Taro, PhD from Kyoto University, worked on *Hillslope Hydrology Intercomparison and Classification*, (August 2002-January 2003) [now senior scientist at National Institute for Land and Infrastructure Management, Japan].

Vaché, Kellie, PhD from Oregon State University, worked on *Mesoscale Watershed Modeling* (June 2003-May 2005) [now Associate Professor, Oregon State University].

Vitvar, Tomas, PhD from ETH Zurich, worked on *Residence Time Modeling of Urban Waters*, January 2000-July 2003 [now Professor at University of Guayaquil, Ecuador].

Weiler, M., PhD from ETH Zurich, worked on *Hydrology of Alaska Headwater Catchments*, October 2001-September 2003 [now Professor, Freiburg University].

Youn, HoJoong, Ph.D. from Seoul University, South Korea, worked on *Subsurface Flow and Landslide Initiation*, December 1995 - May **1996 [now Senior Scientist at the Forest Research Institute, Seoul].**

International Student Interns and Visitors (37)

Amed, S., IAEA and NRC Fellow from the Bangladesh Water Development Board, Isotope Traineeship, March-May, 2002

Anderson, Axel, PhD student from University of British Colombia, *Effect of forest roads on lateral flow interception*,.Sept 2006. **[now Associate Professor, University of Alberta].**

Biondi, Daniela, Recent PhD from University of Calabria, Italy, *Development of physically based watershed models with realistic internal flowpaths*, Sept-Dec 2008.

Barthold, Frauke, PhD student from Giessen University, *Development of model structures for ungauged basins in Inner Mongolia*, Sept-Dec. 2007.

Bustamante, Ramon, MSc student, Concepcion University, Chile, *Isotope applications in forest hydrology*. Oct 2014 -Jan 2015 [now Senior Scientist, Arauco Inc, Chile].

Castro, Ariel, MSc student from Sonora Inst. Of Technology, Mexico. *Isotope tracers in watershed hydrological modeling*, May/June 2015.

Chaffe, Pedro, PhD student from Kyoto University, Japan, *Climate change induced changes in snowmelt runoff regime at the HJ Andrews Experimental Watershed*, May-August 2011. [now Associate Professor, Federal University of Santa Catarina, Brazil].

Cloke, Hannah, PhD student from Bristol University, *Capillary fringe modeling, 2001.* [now Professor, University of Reading].

Coles, Anna, PhD student from Durham University, UK, High frequency isotope tracing using a new nebulizer and gas analyzer, Sept-Dec., 2011. [now Post Doc, Laurier University].

Fabrizio Fenicia, PhD student from TU Delft, Parsimonious watershed modeling—evaluating the value of data, Sept-Dec 2006. [now Senior Scientist, EAWAG/ETH Zurich].

Frey, Martin, PhD student from EAWAG/ETH Zurich, *A hillslope scale model experiment of threshold behavior*, Sept-Dec 2004. [now Assistant Professor, ZHAW School of Engineering, Zurich].

Garvelmann, Jakob, Pre-diplome student from Freiburg University, *Field measurements of water flux in steep coast range watersheds*, Sept-Dec 2008. **[now Assistant Professor, Karlsruhe Institute of Technology].**

Geris, Josie, Post Doc from University of Aberdeen, Tree water source quantification using stable isotopes, 2013. [now Senior Lecturer, University of Aberdeen].

Gerits, Miriam, PhD student from TU Delft, *Interception modeling and effects of subsurface runoff, 2007.* [now Associate Professor, TU Delft].

Holwerda, Friso, Post Doc from University of New Hampshire, Tropical cloud forest hydrology, August 2008-July 2011 [now Associate Professor at UNAM, Mexico City].

Lanni, Cristiano, PhD student from University of Trento, Effects of bedrock topography on landslide triggering, Sept 2010-March 2011.

Laine-Kaulio, Hanne, PhD student from Aalto University, Finland, [now Senior Researcher, Aalto University, Finland].

Martius, Olivia, Pre-diplome student from ETH Zurich, *EM Analysis of volumetric water content*, April – July 2001.

Min, Lan, PhD student from Tsinghua University, Beijing, Hillslope hydrological modeling to quantify the interactions of factors influencing runoff generation, Sept 2011-June 2012. [now Staff Scientist, Tsinghua University].

Penne, Daniele, PhD student from Padua University, *Spatial patterns of soil moisture at the catchment scale*, Sept 2006-June 2007. [now Associate Professor, University of Florence].

Marijn Piet, MS student from TU Delft, Freezer experiments on the effect of soil moisture content on frozen soil infiltrability, June-August, 2014 [now Project Manager, Shell, The Netherlands].

Pitt, Iris, MS Student from Utreckt University, *Parameterizing 2-water worlds into the WALNUTS biogeochemical model*, January-May 2011 [now PhD student, Utrecht University].

Roman Portmann, MSc student, Forest hydrological processes, University of Basel

Mario Martina, PhD student, Watershed modeling, University of Bologna, Feb-May 2005 [now, Senior Hydrologist, Risk Engineering and Development Inc., Italy].

Reiter, Mattias, Diplome student from Freiburg University, Germany, *Hillslope Hydrology of the Oregon Coast Range*, March 2003 – May 2003.

Ritter, Matthias, MS student from Freiburg University, Germany, *Forest transpiration controls on stream diel flux, Sept-Dec 2010* [now Senior Scientist, Price-Waterhouse, London].

Santos, Camyla, PhD student from Federal University of Santa Catarina, Brazil, *Plant wáter source apportionment*, Sept-Dec 2018.

Sebestyen, Stephen, PhD student from SUNY-ESF, Catchment hydrological processes and biogeochemistry, July-Dec 2004. [now Senior Scientist, USDA Minnesota].

Seifert, Winnie, MSc student from Bayreuth University, Infiltration tests with brilliant blue dye in an ag field., Apr-Dec 2013

Spaaks, Jurriaan, PhD student from University of Amsterdam, The Netherlands, *Conceptual models of hillslope runoff generation*, Sept.-Dec 2008, **[now Assistant Professor, University of Amsterdam].**

Starcke, Corinna, Pre-diplome student from Braunsweig University, Germany, *Isotopic Analysis of Columbia River Waters*, Sept 2000 – June 2001

Stöcker, Falko, MS student from Stuttgart University, Germany, *High frequency sampling of rainfall isotope composition: relationships with rainfall and air temperature*, Oct 2011-June 2012.

Stockinger, Michel, student from Helmoltz Julich, Germany, Interception effects on streamwater transit time modeling, Aug-Dec 2014. [now Post Doc, Helmholtz UFZ, Leipzig].

Tritschler, Felix, MS student from the University of Dresden Germany, *Runoff generation in the Canadian Rockies.*, Sept-Dec 2012. [now Post Doc, the University of Dresden].

Voss, Svenja, MS student from Freiburg University, Runoff on an ag field., Apr-Dec 2013.

Westhoff, Martin, PhD student, Hillslope hydrology, Apr-Dec 2004. TU Delft [now Assistant Professor, Karlsruhe Institute of Technology].

Yerikuly, Zhayik, PhD student from Kazakhstan National Technical University, April-Oct 2014.

Sabbatical Visitors Hosted (12)

Barrios, Miguel, Assistant Professor, Universidad del Tolima – Colombia, April – July 2013.

Burt, Tim, Professor of Geography, Durham University, July-Dec., 2010.

Dunn, Sarah, Senior Scientist, McCauley Institute (now James Hutton Institute), July-Dec 2007.

Gu, Wei-Zu, Senior Scientist, Nanjing Hydraulic Research Institute, Sept—Dec 2010.

Hancock, Greg, Professor and Head, Dept. of Geography, University of Newcastle, Australia, June-Dec., 2010.

Hooper, Rick, Research Hydrologist USGS (Now CUAHSI), Sept 2001-June 2002.

Keller, Kent, Professor, Washington State University, Pullman WA, Sept 2015-Aug 2016.

Li, Zhi, Associate Professor, NW Agriculture and Forestry University, China, April 2015 – March 2017.

Ma, Haiyam, Associate Professor, Lanzhou University, Lanzhou China, Sept 2014-Dec 2015.

Pfister, Laurent, Senior Research Hydrologist, Lippmann Institute Luxembourg, April – July 2013.

Reaney, Sim, Senior Lecturer, Durham University, UK, July-Sept. 2009.

Smettem, Keith, Professor of Ecohydrology, University of Western Australia, April-June 2011.