CURRICULUM VITAE: ROBERT J NAIMAN

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Emeritus Professor and former UNESCO Chair in Sustainable Rivers School of Aquatic and Fishery Sciences, University of Washington, Seattle 98195

Updated 2019

Employment History

| 2012 to 2016 | Visiting Professor, University of Western Australia, Centre of Excellence in Natural Resource Management (Albany) |
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| 1988 to 2012 | Professor, School of Aquatic & Fishery Sciences, University of Washington; Director, Center for Streamside Studies (1988 to 1996) |
| 2001 to 2002 | Sabbatical Fellow, National Center for Ecological Analysis and Syntheses (NCEAS), University of California, Santa Barbara and The Ecosystems Center (MBL), Woods Hole, Massachusetts |
| 1995 | Visiting Professor, University of the Witwatersrand, Johannesburg, South Africa |
| 1985 to 1988 | Director, Center for Water and the Environment, Natural Resources Research Institute, University of Minnesota |
| 1978 to 1985 | Director, Matamek Research Program, Woods Hole Oceanographic Institution |

Research Foci

Improving watershed management through a better understanding of the structure and dynamics of riverine ecosystems (including riparian vegetation and large animals), and changing environmental conditions. My underlying philosophy is that effective natural resource decisions are founded on a balance of environmental and cultural principles, and that sustainable management solutions require transdisciplinary approaches.

Selected Awards

Kaiser Professor – University of Wisconsin (1995)
Aldo Leopold Leadership Program (1999)
Distinguished Faculty Research Award – University of Washington (2000)
H.B.N. Hynes Lecturer, Canadian River Institute, University of New Brunswick (2004)
UNESCO Chair in Sustainable Rivers (2008 to 2012)
Doctor Honoris Causa, Université Paul Sabatier, Toulouse, France (2008)
Eminent Ecologist Award, Ecological Society of America (2012)
E. Baldi Lecture, International Society of Limnology (2013)

Selected Books and Monographs (Total = 15; ISI Highly Cited Researcher)

Speed, R., Y. Li, D. Tickner, H. Huang, R.J. Naiman, L. Yu, L. Gang, Z. Zhao, P. Sayers, and W. Yu. 2016. River Restoration: A Strategic Approach to Planning and Management. Paris, UNESCO.

Arthington, A.H., R.J. Naiman, M.E. McClain and C. Nilsson, editors. 2010. Special Issue: "Environmental Flows; Science and Management". Freshwater Biology, Volume 55(1).

Naiman, R.J., A-H. Prieur-Richard, A. Arthington, D. Dudgeon, M.O. Gessner, Z. Kawabata, D. Knowler, J. O'Keeffe, C. Lévêque, D. Soto, M. Stiassny, C. Sullivan. 2006. freshwaterBIODIVERSITY: Challenges for Freshwater Biodiversity research. DIVERSITAS Report No. 5, Paris, France.

Naiman, R.J., H. Décamps, and M.E. McClain. 2005. Riparia: Ecology, Conservation and Management of Streamside Communities. Elsevier/Academic Press, San Diego.

Naiman, R.J. and R.E. Bilby (eds). 1998. River Ecology and Management: Lessons from the Pacific Coastal Ecoregion. Springer-Verlag, New York.

Stouder, D., P.A. Bisson, and R.J. Naiman (eds). 1996. Pacific Salmon and Their Ecosystems. Chapman and Hall, New York.

Naiman, R.J., J.J. Magnuson, D.M. McKnight, and J. A. Stanford (eds). 1995. The Freshwater Imperative: A Research Agenda. Island Press, Washington, D.C.

Naiman, R.J. (ed). 1992. Watershed Management: Balancing Sustainability and Environmental Change. Springer-Verlag, New York.

Naiman, R.J. (ed). 1988. Influence of large animals on ecosystem processes. Special Issue of BioScience, Vol. 38; No. 11.

Selected Refereed Publications (2008 to 2020; Total = 238)

Sauvage, S, J-M Sánchez-Péreza, P Vervier, R-J Naiman, H Alexandre, L Bernard-Jannin, S Boulêtreau, S Delmotte, F Julien, D Peyrard, X Sun, and M Gerino. 2018. Modelling the role of riverbed compartments in the regulation of water quality as an ecological service. Ecological Engineering 118:19 to 30.

Pettit, NE, RJ Naiman, DM Warfe, TD Jardine, MM Douglas, SE Bunn and PM Davies. 2017. Productivity and connectivity in tropical riverscapes of northern Australia: Ecological insights for management. Ecosystems 20:492 to 514.

Speed RA, Y Li, D Tickner, H. Huang, RJ Naiman, J Cao, G Lei, L Yu, P Sayers, Z Zhao, and Y Wei. 2016. A framework for strategic river restoration in China. Water International.

Golladay, S.W., K.L. Martin, J.M. Vose, D.N. Wear, A.P. Covich, R.J. Hobbs, K.D. Klepzig, G.E. Likens, R.J. Naiman, and A.W. Shearer. 2016. Achievable future conditions as a framework for guiding conservation and management. Forest Ecology and Management 360:80 to 96.

Pettit, N. E., R. J. Naiman, J. M. Fry, D. J. Roberts, P. G. Close, B. J. Pusey, G. Woodall, C. J. MacGregor, P. Speldewinde, B. Stewart, R. Dobbs, H. Paterson, P. Cook, S. Toussaint, S. Comer, and P. M. Davies. 2015. Environmental change: prospects for conservation and agriculture in a southwest Australia biodiversity hotspot. Ecology and Society 20(3):10.

Jardine, T.D., N.R. Bond, M.A. Burford, D.P. Ward, P. Bayliss, P.M. Davies, M.M. Douglas, S.K. Hamilton, M.J. Kennard, J.M. Melack, R.J. Naiman, N.E. Pettit, B.J. Pusey, D.M. Warfe, and S.E. Bunn. 2015. Does flood rhythm drive ecosystem responses in tropical riverscapes? Ecology 96:684 to 692.

Rieman, B.E., C.L. Smith, R.J. Naiman, G. Ruggerone, C.C. Wood, N. Huntly, E.N. Merrill, J.R. Alldredge, P.A. Bisson, J. Congleton, K. Fausch, C. Levings, W. Pearcy, D. Scarnecchia, and P. Smouse. 2015. A comprehensive approach for habitat restoration in the Columbia Basin. Fisheries 40:124 to 135.

Naiman, R.J. 2013. Socio-ecological complexity and the restoration of river ecosystems. Inland Waters 3: 391 to 410.

Catford, J.A., R.J. Naiman, L.E. Chambers, J. Roberts, M. Douglas, and P. Davies. 2013. Predicting novel riparian ecosystems in a changing climate. Ecosystems 16:382 to 400.

Naiman, R.J., and 15 Others. 2012. Developing a broader scientific foundation for river restoration: Columbia River food webs. Proceedings of the National Academy of Sciences (USA) 109 (52): 21201 to 21207.

Donley, E.E., R.J. Naiman, and M.D. Marineau. 2012. Strategic planning for instream flow restoration: a case study of potential climate change impacts in the central Columbia River basin. Global Change Biology.

Naiman, R.J. and D. Dudgeon. 2011. Global alteration of freshwaters: Influences on human and environmental well-being. Ecological Research 26:865 to 873.

Corenblit, D., A.C.W. Baas, G. Bornette, S. Delmotte, R.A. Francis, A.M. Gurnell, F. Julien, R.J. Naiman, and J. Steiger. 2011. Feedbacks between geomorphology and biology controlling Earth surface processes and landforms: A review of foundation concepts and current understandings. Earth-Science Reviews 106:307 to 331.

Arthington, A.H., R.J. Naiman, M.E. McClain and C. Nilsson. 2010. Preserving the biodiversity and ecological services of rivers: New challenges and research opportunities. Freshwater Biology 55:1 to 16.

Olden, J.D. and R.J. Naiman. 2010. Broadening the science of environmental flows: Managing riverine thermal regimes for ecosystem integrity. Freshwater Biology 55:86 to 107.

Poff N. L. and 18 Others. 2010. The ecological limits of hydrologic alteration (ELOHA): a new framework for developing regional environmental flow standards. Freshwater Biology 55:147 to 170.

Naiman, R.J., J.S. Bechtold, T. Beechie, J.J. Latterell, and R. Van Pelt. 2010. A process-based view of floodplain forest patterns in coastal river valleys of the Pacific Northwest. Ecosystems 13:1 to 31

Bechtold, J.S. and R.J. Naiman. 2009. A quantitative model of soil organic matter accumulation during floodplain primary succession. Ecosystems 12:1352 to 1368.

Naiman, R.J., J.M. Helfield, K.K. Bartz, D.C. Drake, and J.M. Honea. 2009. Pacific salmon, marine-derived nutrients and the characteristics of aquatic and riparian ecosystems. Pages 395 to 425, in: A.J. Haro et al. (editors). Challenges for Diadromous Fishes in a Dynamic Global Environment. American Fisheries Society Symposium 69. Bethesda, Maryland.

Corenblit, D., J. Steiger, E. Tabacchi, A.M. Gurnell, and R.J. Naiman. 2009. Pioneer plants intertwine ecological successions and natural selection with habitat morphogenesis: a niche construction perspective for riparian systems. Global Ecology and Biogeography 18:507 to 520.

Alcamo, J., C. Vörösmarty, R. J. Naiman, D. Lettenmaier, and C. Pahl-Wostl. 2008. A grand challenge for freshwater research: Understanding the global water system. Environmental Research Letters 3:1 to 6.

Venter, F.J., R.J. Naiman, H.C. Biggs, and D.J. Pienaar. 2008. The evolution of conservation management philosophy: Science, environmental change and social adjustments in Kruger National Park. Ecosystems 11:173 to 192.

McClain, M.E. and R. J. Naiman. 2008. Andean influences on the biogeochemistry and ecology of the Amazon River. BioScience 58:325 to 338.

Naiman, R.J., J.J. Latterell, N.E. Pettit, and J.D. Olden. 2008. Flow variability and the biophysical vitality of river systems. Comptes Rendus Geosciences 340:629 to 643.