



# Résumé of Peter E. Black

**Distinguished Teaching Professor of Water and Related Land Resources, Emeritus**

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## Education:

Diploma	Fieldston High School	Riverdale, NY	1952
BS, Forestry	University of Michigan	Ann Arbor, MI	1956
MF, Forest Influences	University of Michigan	Ann Arbor, MI	1958
PhD, Watershed Management	Colorado State University	Fort Collins, CO	1961

## Professional positions held:

Professor Emeritus	2000	
Distinguished Teaching Professor	1997-	Faculty of Forestry SUNY College of Environmental Science and Forestry 1 Forestry Drive, Syracuse, New York 13210
Professor of Water and Related Land Resources	1969-97	
Associate Professor	1966-69	
Assistant Professor	1965-66	
Visiting Professor	SS 1985	Department of Geography, University of Colorado, Boulder, Colorado 80309
	SS 1986	
Principal, and EIS Project Manager	1974-86	Impact Consultants Syracuse, New York
Watershed Consultant	1986-1962-74	Numerous public and private organizations
Assistant Professor	1961-65	Humboldt State College Arcata, California
Research Forester, Watershed Management	1956-59	Coweeta Hydrologic Laboratory, Southeastern Forest Experiment Station, US Forest Service, Asheville, NC

**MEMBERSHIPS:** Charter Member of the American Water Resources Association (served national) two terms as Middle Atlantic District Director, 1980-86; Member of Conference Planning, Promotion, and Long Range Planning Committees; Chair, Education, Student Activities, Awards, and Nominations Committees; Coordinator, Educational Water Film Festival; General Chair, *Monitoring, Modeling, and Mediating Water Quality*, 1987 Symposium in Syracuse, NY; President, 1991; Associate Editor for Watershed Management, *Water Resources Bulletin*, 1992-7; edited first issue and wrote and edited several articles for *Water Resources Impact*, 1999-1903; General Chairperson for 1996 Summer Symposium *Watershed Restoration Management*, Syracuse, NY; (served State) 1981-2 President, 1984 Secretary, 1991 Annual Meeting Chair, and seven years as NYS AWRA section Newsletter Editor), and President 2005-6 ending in dissolution of Section. Also member of American Geophysical Union, American Association for the Ad-

vancement of Science, Soil and Water Conservation Society, Xi Sigma Pi, Sigma Xi, National Association of Environmental Professionals (Certified Environmental Professional, Education Committee), American Institute of Hydrology (Certified Professional Hydrologist).

**COURSES TAUGHT:** Graduate and undergraduate: *Surveying, Forest Management, Soil and Water Conservation Policy, Forest Hydrology, Watershed Analysis, Environmental Impact Analysis, Watershed Management, Water Quality Management, Advanced Wildland Hydrology, Water Resources of the Western States, Watershed Hydrology and Water Quality, Hydrology Computer Laboratory, and Water Resource Issues in the News.* Short courses: *Environmental Impact Analysis, and Watershed Hydrology.*

**STUDENTS:** Served as Major Professor for 10 PhD and 66 Masters Degree Candidates. Graduates are currently employed throughout the United States and in several foreign countries by NGOs and governments at all levels, by educational institutions, or as private consultants.

**COMMUNITY and PROFESSIONAL ADVISORY SERVICE:** Member, **Six Rivers National Forest Advisory Committee**, 1962-65; **Water Resources Advisory Committee**, Humboldt County Board of Supervisors, CA 1962-65; **Onondaga Lake Management Conference** and three of its task forces, 1990-1996; College Representative to: **New York State Soil and Water Conservation Committee** (and technical subcommittees), 1985–present; **NYS Department of Environmental Conservation Nonpoint Source Coordination Committee**, and **Community Environmental Management Committee. Universities Council on Water Resources**, 1989–present (elected to Board of Directors, 1994-6); and Member, **Environmental Advisory Board**, U. S. Army Corps of Engineers, 1991–1996 (Chairperson, 1995-6); **State Technical Advisory Committee, Natural Resources Conservation Service** (1994–present); **Skaneateles Lake Watershed agricultural Program Committee** (1995–present); **NYC Watershed Agricultural Council** (1998–present); and **NYC DEP Forest Science and Technology Advisory Committee** (2001-present).

**INTERNATIONAL TRAVEL AND SERVICE:** *Personal* travel to Antigua, Barbados, Belgium, Bermuda, Canada, Denmark, England, France, Germany, Holland, Japan, Mexico, Panama, Scotland, Singapore, and the Soviet Union. *Professional* travel to Australia, Chile, and South Korea to deliver invited conference keynote addresses, and short courses in Canada, China, Chile (second trip), and Spain. Upon retirement and invitation to deliver a keynote in Australia, visited professionals and presented seminar on *Watershed Functions* in return for visits to research and/or management sites in New Zealand, Australia, Nepal, Zimbabwe, and South Africa as part of a round-the-world trip. *Represented SUNY ESF* in the Philippines (1971) and Turkey (2003).

**COLLEGE SERVICE:** Executive Chairman of the College Faculty, elected 1974-6 and 1976-8; Chairman of School of Forestry Faculty, elected 1971-4; Secretary, Faculty of Forestry 1992-97; chairman or member of numerous standing and *ad hoc* academic, community, and professional committees.

**RESEARCH AWARDS:** SUNY/McIntyre-Stennis, Watershed Model Studies Project; Consortium for Environmental Forestry Studies (U. S. Forest Service): 1. Parking Lot Runoff Impact on Water Quality, and 2. Ecology of an Urban Recreational Water Body; National Science Foundation (Computer equipment for hydrology instruction).

**HONORS AND AWARDS:** elected to AWRA Fellow Membership, '88; AWRA President's Award for Outstanding Service, '88; Listed in *American Men and Women of Science* and *Who's Who in the East*; U. S. Army Corps of Engineers Commander's Award for Public Service, '96. SUNY Distinguished Teaching Professor, '97, Friends of UCOWR Award.'98.

**PUBLICATIONS:** Over 80 articles, books, chapters, consultant reports, research notes, an instructional film, and an autotutorial (animated and narrated) short course, including:

- 1959** "Interception of Rainfall by a Hardwood Canopy," Istanbul Univ., *Orman Fakultesi Dergisi* 9(2):218-24
- 1961** *Historical Compendium of Colorado Water Law*. Mimeographed, Cooperative Watershed Management Unit, Copies filed in Denver Water Board, and in the Library, Colorado State University, Ft. Collins, CO. 98 pp
- 1961** *Timber and Water Resource Management: A Physical and Economic Approach to Multiple Use on Denver's Municipal Watershed*, PhD Dissertation, CSU, Ft. Collins, CO 130 pp.
- 1963** "Timber and Water Resource Management," *Forest Science* 9(2):137.
- 1964** *Climate, Soils, and Hydrology of the Redwood Region*. Report to the National Park Service, USDI, Washington, DC. SNR, Humboldt State College, Arcata, CA 38 pp.
- 1966** "Factors in Floods," *Timber, a North Coast Journal* 1(2):30-5
- 1967** *The Coast Redwoods, Water, and Watersheds*. Report to the National Park Service, USDI, Washington, DC. 33 pp.
- 1967** "The Principle of Disproportionate Percentages, or How to Efficiently Break a Camel's Back," *Water Resources Bulletin (WRB)* 3(4):24.
- 1968** "The Principle of Watershed Equilibrium," with R. E. Leonard, *WRB* 4(2):49-50.
- 1968** "The Principle of Inverse Influence," *WRB* 4(3):3-4.
- 1968** "Streamflow Increases Following Farm Abandonment on Eastern New York Watershed," *Water Resources Research (WRR)* 4(6):1171
- 1968** *Potential Evapotranspiration in Alaska by Thornthwaite's Classification*. with J. H. Patric. USFS Research Paper PNW-71, USDA, Juneau, AK. 28 pp
- 1970** "The Watershed in Principle," *WRB* 6(20):153
- 1970** "Runoff from Watershed Models," *WRR* 6(2):465
- 1970** *Subsurface and Stream Flow on Watershed Models*. 16mm instructional film, SUNY ESF, Syracuse, NY. 15 minutes.
- 1972** "Flood Peaks as Modified by Dam Size and Location," *WRB* 8(4):780
- 1972** "Hydrograph Responses to Geomorphic Model Watershed Characteristics and Precipitation Variables," *Journal of Hydrology (JH)* 17:309
- 1975** "Environmental Impact Statements in Planning Water and Related Land Resources," *WRB* 11(5):881
- 1975** "Hydrograph Responses to Geomorphic Model Size and Similitude Relations," with J. W. Cronn. *JH* 26:255-66
- 1996** "Watershed Functions," *Proceedings, Watershed Restoration Management*, AWRA, Syracuse, NY. pp. 147-152
- 1996** "Watershed Management," in *Proceedings, Watershed Restoration Management*, AWRA Summer Symposium, Syracuse, NY. pp. 245-249
- 1997**. "Watershed Management IS Ecosystem Management," *HYDATA* 16(1):1
- 1997** "Watershed Functions," *Journal of the American Water Resources Association (JAWRA)* 33(1):1
- 1997** "Watershed Functions," *Water Resources Journal*, (UNESCAP), pp. 32-41, September
- 1997** "Foreword," and Issue Editor of "Status of Native American Water Rights," *UPDATE* (Issue No. 107, Spring), pp 1-5.
- 1997** "Research Issues in Forest Hydrology," *Proceedings, Forest Hydrology Research Symposium*, University of British Columbia, Vancouver, BC.
- 1998** "Managing Forests to Sustain Water Resources: What's Possible and Sensible?" *Proceedings, The Science of Managing Forests to Sustain Water Resources*, sponsored by IUFRO, Univ. of Massachusetts, USFS, and Society of American Foresters, Nov. 10-12, Sturbridge, MA
- 1998** "Inclement Attitudes," *HYDATA* 17(1):6
- 1998** "On Normalcy." *HYDATA* 17(6):1
- 1998** with Stephan J. Nix: "Leadership Sequence in AWRA Affects Individual Influences: and vice versa," *HYDATA* 17(3):1
- 1999** "Putting the People in Watershed Management." Associate Editor for the first issue of *Water Resources Impact* 1(1):5
- 2000** "Watershed Planning for Uncertainty and Change," *Water Resources IMPACT* 2(2):23
- 2000** "Water Budget Software," IN *Development and Application of Computer Techniques to Environmental Studies VIII*, Proceedings, ENVIROSOFT 2000, Bilbao, Spain.
- 2000** "Partnerships in Watershed Management," *Proceedings, Universities Council on Water Resources Annual Conference*, New Orleans, LA. pp. 33-46
- 2000** "Watershed Functions," a lecture/presentation/seminar given at Long Beach State University, CA; and in Lincoln, New Zealand; Perth, Australia; Katmandu and Pokhara, Nepal; Stellenbosch, South Africa, and Madrid, Spain.
- 2001** *Conservation of Water and Related Land Resources*, Third Edition, with B. L. Fisher. CRC Press/ Lewis Publishers, Boca Raton, FL. 487 pp.
- 2001** "Partnerships in Watershed Management," invited paper at Tennessee River Water Conference, TVA, Knoxville, TN, June 14-15
- 2002** "Concepts of Watershed Hydrology: a Nutshell Series Short Course" animated, narrated autotutorial CD, see and purchase at [www.watershedhydrology.com](http://www.watershedhydrology.com)

- 1980** "Reasons for Wetland Preservation," *Journal of Soil and Water Conservation* 35(3):108
- 1980** "Water Quality Patterns During a Storm on a Mall Parking Lot," *WRB* 16(4):615-20
- 1980** "SEARCH: A Gauged Watershed Inventory," *WRB* 16(5):894-9
- 1981** *Environmental Impact Analysis*. Praeger Publishers, Inc., New York, NY 146 pp.
- 1984** "Risk/Impact Assessment Techniques," Commissioned for the CEQ/NSF Conference /Workshop, Washington, DC. May 21-2. 32 pp.
- 1985**. "Whither Environmental Quality?" *Journal of Irreproducible Results* 31(2):27.
- 1987** *Conservation of Water and Related Land Resources*. 2nd Ed., Rowman and Littlefield, Totowa, NJ. 352 pp.
- 1988** "Public Participation at AWRA Symposia," *HYDATA* 7(2):7
- 1989** *Computer-Based Hydrology Laboratory*, 2nd Edition, 2nd Printing. Misc. Publ. No. 16, (ESF 87-005), SUNY ESF, Syracuse, NY, 61 pp.
- 1989** "Stratified Flood Frequency Analysis," *Proceedings of the AWRA Symposium in Headwaters Hydrology*, Missoula, MT pp. 563-572
- 1991** *President's Page*. Six contributions to the *WRB* during the year as AWRA President.
- 1991** *Watershed Hydrology*. Prentice-Hall, Englewood Cliffs, New Jersey. 432 pp.
- 1992** "Reauthorization of the Clean Water Act," Editor's overview, and Issue Editor for *UPDATE* 88:5-6.
- 1993** "Watershed Management at Three Governmental Levels," Invited paper, Water Resources & Management Div., ASCE Symposium., May 3-5, Seattle, WA
- 1993** "Nonpoint Source Pollution Control is Watershed Management," *Waste Management Research Reports* 5(3):11-13
- 1994** "Water Pollution: Processes," *The Encyclopedia of the Environment*, Houghton-Mifflin Co., Boston, MA, pp 557-560
- 1994** "Do You Have a Point Source Discharge Permit?" *HYDATA* 13(2):22 (April).
- 1994** "Do You Have a Point Source Discharge Permit?" *US Water News* 10(12):6 [Re-printed with permission.]
- 1994** "Do You Have a Point Source Discharge Permit?" *Down to Earth* 53(3):5 [Re-printed with permission.]
- 1994** *Watershed Hydrology Computer Laboratory Users' Manual*. Pacific Crest Software, Inc., 875 NW Grant Ave, Corvallis, OR 97330. 79 pp.
- 1995** "The Critical Role of 'Unused' Resources". *Water Resources Bulletin* 31(4):589
- 1996** *Watershed Hydrology*, Second Edition. Ann Arbor Press, Chelsea, MI. 449 pp.
- 1996** "The Very First Invention," *HYDATA* 15(3):16.
- 2004** "Perspectives on Conservation and Sustainability: a New Paradigm or Two," *Proceedings, UCOWR Annual Meeting*, Portland, OR
- 2004** "Water Resources Conservation Lessons from the Twentieth Century: How Can We Use Them?" *Water Resources Impact* 6(2):7.
- 2004** "The Resource Buffer Theory: Connecting the Dots from Conservation to Sustainability," Aguirre-Bravo, Celedonio, et. al. Eds. 2004. *Monitoring Science and Technology Symposium: 2004: Unifying Knowledge for Sustainability in the Western Hemisphere* September 20-24; Denver, CO. *Proceedings* RMRS-P-000. Ogden, UT, U.S. Department of Agriculture, Forest Service, Rocky Mountain Station.
- 2004** "Forest and Wildland Watershed Functions," invited Chapter 1 in *A Century of Forest and Wildland Watershed Lessons*, George G. Ice and John D. Stednick, editors. pp 1-18.
- 2004** *Tall Timber and High Water*, recovered and re-written 1967 manuscript on the Coast Redwoods, deposited with The Redwood National and State Park archives, Orick, CA. 57 pp. Copyright 2005
- 2005** "Lessons from the Past and Present to Sustain the Future," invited Keynote Address, Tri-Society (Society of American Foresters, American Fisheries Society, National Wildlife Society sections in New York State), Liverpool, NY 2/3/05.
- 2005** "Water Resource Organizations," solicited article for *Wiley Water Encyclopedia*, edited by Jay Lehr, online at <http://www.mrw.interscience.wiley.com>
- 2005** "Watershed Hydrology," solicited article for *Wiley Water Encyclopedia*, edited by Jay Lehr, online at <http://www.mrw.interscience.wiley.com/>
- 2005** "Ecological Sustainability: a New Look at an Old Paradigm," *Journal of Ecological Anthropology* 9:76-81.
- 2005** "Lessons from the Past and Present to Sustain the Future," invited Keynote Address, Tri-Society meeting (Society of American Foresters, American Fisheries Society, National Wildlife Society sections in New York State), Liverpool, NY 2/3/05.
- 2005** "Watersheds: Processes, Assessment, and Management" (solicited book review) *Journal of Ground Water* 43(0):778.
- 2005-6** "A Road to Sustainability" paper delivered at ESA, UCOWR, AIH, NAEP, EMSU, Rotarians (Stonington, CT); May Memorial Unitarian-Universalist Society of Syracuse, NY; American Institute of Hydrology, Reno, NV, 2007; St. Lawrence District of the UUA, 2007.
- 2006** *Water Drops*, weekly two-minute essays on all water science, culture, management, and policy on NPR affiliate, WRVO.FM, Oswego, NY
- 2006** "Lessons of the Past and Present to Sustain the Future," Rice Creek Associates (Oswego, NY); seminar ("A Canary for Lunch") at AWRA annual Meeting, Baltimore, November; and several on-campus presentations.
- 2006** Invited book review of Lester R. Brown's *Plan B 2.0 Rescuing a Planet under Stress and a Civilization in Trouble*, in NYCAD Newsletter (September). P. 4. Also published in *Journal of the American Water Resources Association*, October 2006:1423
- 2006** Invited book review of Peter Annin's *Great Lakes Water Wars*. *Journal of the American Water Resources Association*, In Press.

