

Curriculum Vitae

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Co-Director, Institute for River Ecosystems,
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Personal Data

Place of Birth: Chicago, IL, USA

Education

1955 B.A. (Biology) Lawrence University, Appleton, WI (Magna cum
Laude, Phi Beta Kappa)
1957 M.S. (Fisheries) University of Michigan, Ann Arbor, MI
1961 PhD.(Zoology/Limnology) University of Michigan, Ann Arbor, MI

Professional Background

2004-present Co-Director, Institute for River Ecosystems, Humboldt State University
Arcata, CA.
1999-present Senior Advisory Scientist, California Cooperative Fishery Unit and
Adjunct Professor, Fisheries Biology Department, Humboldt State
University, Arcata, CA
2002-2004 Interim Director, Institute for Forest and Watershed Management,
Humboldt state University, Arcata, CA

1994-1999 Distinguished Scientist, Ecosystem Restoration Department, South Florida
Water Management District, West Palm Beach and Sanibel, FL
1989-1993 Professor, Department of Biological Sciences and Director, Pymatuning
Laboratory of Ecology, University of Pittsburgh, Pittsburgh, PA
1961-1989 Assistant Professor, Department of Biology, Northwestern University,
Evanston, IL (1961-1962); Assistant Professor, Department of Biology,
University of Pittsburgh, Pittsburgh, PA (1962-1968); Associate
Professor, Department of Entomology, Department of Fisheries and
Wildlife, and Kellogg Biological Station, Michigan State University,
Hickory Corners, MI (1968-1972); Professor, Department of
Entomology, Department of Fisheries and Wildlife, Department of
Zoology, and Kellogg Biological Station, Michigan State University,
Hickory Corners, MI (1972-1978); Professor, Department of Department
of Fisheries and Wildlife and Department of Entomology, Oregon State
University, Corvallis, OR (1978-1984); Professor, Appalachian
Environmental Laboratory, Center for Environmental and Estuarine
Studies, University of Maryland, Frostburg, MD (1984-1989).

Areas of Expertise

Freshwater ecosystem structure and function (especially streams); general aquatic ecosystem theory, especially riparian interactions; Functional analysis of freshwater

Professional Boards

Science Advisory Board, Environmental Protection Agency, Washington, D.C. (1998-2004). Ecological Processes and Effects Committee, Environmental Protection Agency, Washington, D.C. (1994-2002). Independent Science Board and Ecosystem Restoration Program Science Board, Bay Delta Authority (CALFED), Sacramento, CA (1999-2005).

National and International Committees

National Science Foundation, National Advisory Committee for Long-term Ecological Research at Hubbard Brook Experimental Forest (1998-2000).
Salmon Enumeration Panel, Olympic Natural Resource Center, University of Washington, Forks, WA (1999-2001).
National Representative and Working Group – Conservation and Management of Running Waters, International Society of Theoretical and Applied Limnology (1990-2000).

Symposia

Aquatic Environmental Management, National Institute for Environmental Studies, Tscuba, Japan (2000, visiting scholar).
Bioindicators of Rural Non-point Source Pollution in Lake Erie Tributaries, Heidelberg College, OH (1991, keynote speaker).
Landscape Management, Oregon State University, OR (1993, keynote speaker).
Ecology and Management of Riparian Zones, Land and Water Resources Development Corporation and the Center for Catchment and In-stream Research, Griffith University, Australia 1991, keynote speaker).
Research Perspectives in Aquatic Ecology, University of Milan, Italy (1993, keynote speaker).
Biocriteria Symposium, Florida Department of Environmental Protection, Tallahassee (1996, keynote speaker).

Awards

Award of Excellence in Benthic Science, North American Benthological Society (1990).

Adjunct Appointments

Michigan State University, Department of Entomology, East Lansing, MI (1995-present).

University of Miami, Rosenstil School of Atmospheric and Marine Science, Miami, FL (1998-2000).

University of Florida, Institute of Food and Agricultural Science, Gainesville, FL (1997-2000).

Florida International University, Department of Biological Science, Miami, FL (1997-2000).

University of South Florida, Department of Biology, Tampa, FL (1999-2000).

Florida Gulf Coast University, Fort Meyers, FL (1999-2000).

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1961

1. Lauff, G. W., K. W. Cummins, C. H. Eriksen, and M. Parker. 1961. A method for sorting bottom fauna samples by elutriation. *Limnol. Oceanogr.* 6:462-466.

1962

2. Cummins, K. W. 1962. An evaluation of some techniques for the collection and analysis of benthic samples with special emphasis on lotic waters. *Amer. Midl. Nat.* 67:477-504.

1964

3. Cummins, K.W. 1964. Factors limiting the microdistribution of the caddisflies *Psycnopsyche lepida* (Hagan) and *Psycnopsyche guttifer* (Walker) in a Michigan stream (Trichoptera: Limnephilidae). *Ecol. Monogr.* 34:271-295.
4. Lauff, G.H. and K.W. Cummins. 1964. A model stream for studies in lotic ecology. *Ecology* 45: 188-191.
5. Mecom, J.O. and K.W. Cummins. 1964. A preliminary study of the trophic relationships of the larvae of *Brachycentrus americanus* (Banks) (Trichoptera: Brachycentridae). *Trans. Am. Microsc. Soc.* 83:233-245.
6. Cummins, K.W. 1964. A review of stream ecology with special emphasis on organism-substrate relationships. in: *Organisms-Substrate Relationships In Streams*, Pymatuning Lab special publication no. 4, Cummins, K.W., C.A. Tryon, and R.T. Hartman, eds. pp. 2-51.

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7. Cummins, K.W., W.P. Coffman, and P.A. Roff. 1966. Trophic relationships in a small woodland stream. *Verh. Int. Verein. Limol.* 16:627-638.

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1979

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River, Olympic National Park, Washington. *in*: Proceedings, 2nd Conf. Sci. Research National Parks. Nat'l. Park Serv., Washington. DC.

1981

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1982

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1983

56. Minshall, G.W., R.C. Petersen, K.W. Cummins, T.L. Bott, J.R. Sedell, C.E. Cushing, and R.L. Vannote. 1983. Interbiome comparison of stream ecosystem dynamics. *Ecol. Monogr.* 53: 1-25.
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62. Cummins, K.W. 1984. Invertebrate food resource relationships. *Bull. J. North American Benthological Soc.* 1: 44-45.
63. Cummins, K.W., G.W. Minshall, J.R. Sedell, C.E. Cushing, and R.C Petersen. 1984. Stream ecosystem theory. *Verh. Int. Verein. Limnol.* 22:1818-1827.
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73. Cummins, K.W. and M.A. Wilzbach. 1985. Field procedures for analysis of functional feeding groups of stream macroinvertebrates. Univ. of Pittsburgh, PA. 18p.

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74. Wilzbach, M.A., K.W. Cummins, and J.D. Hall. 1986. Influence of habitat manipulations on interactions between cutthroat trout and invertebrate drift. *Ecology* 67:898-911.
75. Cummins, K.W., 1986. The role of stream biota in watershed processes. in: Proceedings of the Chaparral Ecosystems Research Conference, May 16- 17, Santa Barbara, Calif., Davis, CA.
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