

Curriculum Vitae
April 25, 2008

DANIEL EDWARD SCHINDLER

Professor
School of Aquatic and Fishery Sciences
University of Washington
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1. *Personal data*

Birth date: 25 January 1968;
Place of birth: Peterborough, Ontario, Canada;
Citizenship: dual U.S.A./Canada

2. *Education*

Ph.D., Zoology (December 1995)
University of Wisconsin, Madison, WI.

M.S., Zoology (December 1992)
University of Wisconsin, Madison, WI.

B.Sc., Biology - Honours (May 1990)
University of British Columbia, Vancouver, B.C.

3. *Research Interests*

Ecosystem ecology of aquatic systems; Fisheries ecology; Effects of climate change on aquatic ecosystems; Marine-derived nutrients; Riparian – aquatic coupling; Food web ecology; Sustainable fisheries.

4. *Ph.D. Dissertation Title*

The role of fishes in habitat coupling in lakes (James F. Kitchell, major professor)

5. *Employment*

Professor	School of Aquatic and Fishery Sciences, University of Washington (April 2008 - present)
Associate Professor	School of Aquatic and Fishery Sciences, University of Washington (September 2003 – April 2008)

Associate Professor	Department of Biology, University of Washington (September 2002 – present, currently at 0% cross-appointment)
Visiting Associate Professor	Department of Ecology and Evolutionary Biology, Cornell University (October 2005 – May 2006)
Assistant Professor	Department of Zoology, University of Washington (September 1997 – August 2002)
Adjunct Asst. Professor	School of Aquatic and Fishery Sciences, University of Washington (May 2001 – September 2003)
Research Associate	Center for Limnology, University of Wisconsin (December 1995 - July 1997)
Research Assistant	Center for Limnology, University of Wisconsin (September 1991 - December 1995)
Teaching Assistant	Department of Zoology, University of Wisconsin (September 1990 - May 1991)
Research Technician	Department of Fisheries and Oceans, West Vancouver, BC (1988 – 1990)
Research Technician	Department of Fisheries and Oceans, Winnipeg, MB (1985 – 1987)

6. Honors and Awards

- 1) Distinguished Research Award, College of Ocean and Fishery Sciences, University of Washington, June 2006
- 2) Distinguished Scholar, invited by Graduate Students. University of Minnesota-Duluth. March 2006
- 3) Invited Plenary Speaker, invited by Graduate Students, Ecological Integration Symposium, Texas A&M University, 2006.
- 4) Outstanding Reviewer Award, *Limnology & Oceanography*, 2005
- 5) Invited Participant, Beckman Frontiers of Science Symposium, US National Academy of Sciences, Beckman Center, Irvine California. November, 2003
- 6) Recipient of National Science Foundation, Doctoral Dissertation Improvement Grant. 1995.

7. University of Washington service activities

- 1) College Council – College of Ocean and Fishery Sciences (2004 - 2007)
- 2) School Council – School of Aquatic and Fishery Sciences (2006-present)
- 3) Substitute for the director of SAFS in “department chair” discussion of the proposed College of the Environment. Winter 2008.
- 4) Seminar organizer – School of Aquatic and Fishery Sciences (Au2004, W2005, Sp2005, Sp2007, Sp 2008)
- 5) Advisory Review Committee of the Deanship of the College of Ocean and Fishery Sciences (2006)
- 6) Member of Recruitment and Scholarship Committee, UW-SAFS, (2003-2004)
- 7) Seminar organizer – Department of Biology (W2000)
- 8) Royalty Research Fund, Reviewer

8. Professional activities

a. Professional Organizations (Member)

American Society for Limnology and Oceanography (ASLO)
Ecological Society of America (ESA)
American Fisheries Society (AFS)
American Association for the Advancement of Science (AAAS)

b. Editorial Responsibilities

Associate Editor for: *Ecology* and *Ecological Monographs* (June 2007 – present)
Guest Associate Editor for: *Proceedings of the National Academy of Sciences* (Sept. 2007 – present)

Manuscript reviewer for:

Canadian Journal of Fisheries and Aquatic Sciences, Ecology, Ecological Applications, Ecology Letters, Limnology & Oceanography, Journal of Fish Biology, Oikos, Oecologia, Science, Transactions of the American Fisheries Society, Environmental Science & Technology, Journal of Sea Research, American Naturalist, Conservation Biology, Freshwater Biology, Proceedings of the National Academy of Sciences, Sinauer Publishers, Jones and Bartlett Publishers, University of Washington Press, North American Journal of Fisheries Research, Freshwater Biology.

Grant proposal reviewer for:

National Science Foundation, Wisconsin Sea Grant, Alaska Sea Grant, Minnesota Sea Grant, Maine Sea Grant, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, California Sea Grant, Alaska Department of Fish and Game, National Sciences and Engineering Research Council (Canada)

c. Other professional activities

- 16) Chair, Aquatic Ecology Section of the Ecological Society of America. 2007-present.
- 15) Steering Committee Member, National Center for Ecological Analysis and Synthesis workshop on effects of climate change on Pacific salmon. May 2006-May 2007.
- 14) Trustee - *The Nature Conservancy*, Washington Chapter. 2004 – present
- 13) Vice-chair, Aquatic Ecology Section of the Ecological Society of America. 2005-2007.
- 13) Invited participant – workshop considering the importance of marine-derived nutrients in fisheries management. *The Nature Conservancy*, Alaska chapter, Anchorage, Alaska, December 2006.
- 12) Advisor – *US National Park Service*, SW Alaska Division. 2004 - 2005.
- 11) Organizing Committee Member, American Society of Limnology and Oceanography, Annual Meeting, June 2006, Victoria, BC.
- 10) Panel Member - *Scientific Technical Committee for the Norton Sound Salmon Research and Restoration Fund* (Alaska Department of Fish and Game), 2003-2005.
- 9) Member - *Natural Heritage Advisory Council of Washington*, 2003 – 2007

- 8) Member - *Education and Human Resources Committee* of the *American Society of Limnology and Oceanography*. April 2002 – 2004.
- 7) Liaison between UW and City of Seattle, Cedar River Watershed, 2003-2004.
- 6) Workshop Participant: *US National Academy of Sciences* – The ecology and management of the Caspian Sea. Tehran, Iran, November 2002.
- 5) Panel Member: Developing a management and science program for Crescent Lake, Olympic National Park, WA. *US Geological Survey* and the *Olympic National Park*.
- 4) Member: *International Scientific Advisory Board* for the *Northwest Power Planning Council*. 2001 – 2002. Provides scientific recommendation for fish and wildlife recovery under the Endangered Species and the Northwest Power Act.
- 3) Workshop Participant: *National Center for Ecological Analysis and Synthesis* – Salmon Research Working Group – University of Santa Barbara. March 3-7, 2000.
- 2) Participant in workshop on assessing the ecosystem effects of pelagic fisheries for billfishes, tunas and sharks in the Pacific Ocean. University of Hawaii, Honolulu, HI. January 1999.
- 1) Member - *Lake Washington Technical Committee* 1997-2002

9. Instructional activities since last promotion (2002)

a) courses taught:

Course name	Course number	Number of credits	Average enrollment	Quarters taught	Student evaluation (average median /5)
1. Limnology	Biol 473	3	63	A2002	4.3
				A2003	4.7
				A2004	4.7
				A2006	4.4
2. Limnology Laboratory	Biol 475 Fish 474	2	35	A2002	4.0
				A2003	3.9
				A2004	3.4
				A2006	4.0
3. Field Ecology and Ethology (taught with D. Boersma)	Zool 410	4	16	Sp 2002	4.7
4. Aquatic Ecology Research in Alaska (with T. Quinn, R. Hilborn)	Fish 491	12	6	Su-A2002	5.0
				Su-A2003	n/a
				Su-A2004	n/a
				Su-A2005	n/a
				Su-A2006	4.9
5. Population Biology (with J. Ruesink, Tewksbury, Groom)	Zool 561 Bot 561 Gen 573	4	18	A2003	n/a n/a
6. General Ecology (with J. Ruesink and W. Palen)	Biol 356	4	90	W2004	3.9
				W2005	4.4

7. Theory and Application of Stable Isotopes (taught with M. Scheuerell)	Fish 511	1	15	Spr 2005 Spr 2007	4.1 n/a
8. Ecology of Aquatic Ecosystems	Fish 526	3	25	W 2008	4.0

b) Undergraduate students advised since 2002

Student name	Research Topic	Year
1. Stacey Lehman	Effects of landscape position on limnology of sockeye salmon nursery lakes in southwest Alaska	2002
2. JoAnn Thompson	Seed viability and persistence in the seedbank of invasive knapweed	2002
3. Jackie Carter	Effects of landscape characteristics on DOC in ponds of the Olympic National Park (2003)	2003
4. Justin Fox (Howard Hughes Scholar)	Benthic insect communities in urban lakes	2003
5. Lisa Lurie (Mary Gates Scholar)	Stable isotope indicators of septic pollution in Puget Sound area	2003
6. Jackie White	Nutrient characteristics from septic systems	2004
7. Justin Fox	Nutrient fluxes from salmon spawning streams (2004)	2004
8. Jackie Carter (NSF-REU)	Insect emergence patterns in Alaskan streams	2004
9. Amanda Barg (NSF-REU)	Stable isotope dynamics of stream algae in Alaska	2005
10. Daniel Luck (NSF-REU)	Fish community structure in Alaska streams	2005
11. Andee Klapwyck	Refinement of a benthic algal bioassay	2005
12. Jennifer Griffiths (NSF-REU)	Effects of landscape position on thermal characteristics in lakes of the Wood River System, southwest Alaska	2005
13. Kathryn DeBoer	Stable isotope characteristics of pelagic marine organisms	2006
14. Andy Koch	Aquatic chemistry	2006
15. Matthew Pederson (Howard Hughes Scholar)	Benthic insect communities along an urban gradient	2007
16. Wendy Juarez	Climate drivers of spring ice breakup in Bristol Bay, Alaska	2007
17. Anne Frost	Watershed determination of stream characteristics in Wyoming.	2007

c) Graduate students advised since 2002

Student name	Thesis topic	Major advisor	Degree	Date
1. Mark Scheuerell (chair)	Spatial ecology of aquatic food webs	<u>Schindler</u>	Ph.D.	1997-2002
2. Amanda Stanley (chair) (NSF Fellow, EPA-STAR Fellow)	Biocontrol and invasive weeds	<u>Schindler</u>	Ph.D.	1998-2005
3. Wendy Palen (chair) (Canon National Parks Fellow)	UV radiation and amphibian populations	<u>Schindler</u>	Ph.D.	1999-2005
4. Jonathan Moore (chair) (NSF Fellow)	Disturbance and streams food webs	<u>Schindler</u>	Ph.D.	2000-2006
5. Jennifer Scheuerell (chair)	Zooplankton food webs	<u>Schindler</u>	M.S.	2002-2004
6. Heather Tallis (chair)	Logging effects on coastal river chemistry	<u>Schindler</u>	Ph.D.	2001-2006
7. Gordon Holtgrieve (chair) (EPA-STAR Fellow)	Marine-derived nutrient effects on stream and riparian ecosystems	<u>Schindler</u>	Ph.D.	2003-present
8. Tessa Francis (chair) (NSF Fellow, EPA-STAR Fellow)	Urbanization effects on the riparian habitat of lakes	<u>Schindler</u>	Ph.D.	2001-present
9. Susan Johnson (chair)	Stable isotope ecology of Pacific salmon	<u>Schindler</u>	Ph.D.	2003-present
10. Lauren Rogers (chair) (NSF Fellow)	Climate change and salmon population dynamics	<u>Schindler</u>	Ph.D.	2004-present
11. Matthew Baker (chair) (EPA-STAR Fellow)	Pacific salmon management	<u>Schindler</u>	Ph.D.	2005-present
12. Christopher Hess	Genetic components of disease spread in birds	Edwards	Ph.D.	1998-2005
13. John Payne	Dispersal as an organizing agent of aquatic communities	Boersma	Ph.D.	1997-2003
14. Lorenzo Ciannelli	Food webs of the Bering Sea	Francis	Ph.D.	1998-2002
15. Susan Lubetkin	Stable isotopes as tools for understanding the ecology of whales	Zeh	Ph.D.	1999-2005
16. Susan Pritchard (GSR)	Fire history and forest disturbance	Peterson	Ph.D.	1999-2003
17. Ayesha Gray	Ecology of juvenile salmon in estuaries	Wissmar	Ph.D.	1999-2004
18. Michele Koehler	Ecology of juvenile Chinook salmon	Simenstadt	M.S.	2000-2002
19. Sacha Vignieri	Metapopulation ecology of rodents	Kenagy	Ph.D.	1999-2005
20. Eli Meir	Simulation of developmental pathways	Odell	Ph.D.	2000-2003
21. Brice Semmens	Fish community ecology	Ruesink	Ph.D.	2000-2006
22. Jennifer McLean (GSR)	Population genetics of endangered salmon	Quinn	Ph.D.	2001-2003
23. Christopher Boatright	Population ecology of sockeye	Quinn	M.S.	2001-2003

24. Jenifer McIntyre	salmon in Alaska Contaminants in aquatic food webs	Beauchamp	M.S.	2001-2004
25. Michael Mazur	Food web dynamics in Lake Washington	Beauchamp	M.S.	2001-2004
26. Jesse Schwartz (Boston University)	Fisheries as human impacts in East Africa and the Philippines	Kaufman	Ph.D.	1999-2004
27. Anne Salomon	Intertidal community dynamics	Ruesink	Ph.D.	2000-2006
28. Eric Buhle	Intertidal community dynamics	Ruesink	Ph.D.	2001-present
29. Elizabeth Skewgar	Spatial ecology of penguins	Boersma	Ph.D.	2003-present
30. Caryn Abrey	Ecology of juvenile sockeye salmon	Quinn	Ph.D.	2001-2005
31. Greer Anderson	Ecology of Columbia River salmon	Simenstad	M.S.	2004-2006
32. Willy Eldridge	Population genetics of salmon	Naish	Ph.D.	2003-2007
33. Emily Howe	Restoration of San Francisco Bay	Simenstad	M.S.	2004-2006
34. Jo Smith	Behavioral ecology of sea birds	Parrish	Ph. D.	2005- present
35. Peter Westley	Salmon in Chignik Lakes system	Hilborn	M.S.	2005-2007
36. Harry Rich, Jr.	Climate effects on Iliamna Lake sockeye	Quinn	M.S.	2004-2006
37. David Oleyar	Urbanization effects on bird communities	Marzluff	Ph.D.	2003-present
38. Kristen Marshall	Foraging ecology	Essington	M. S.	2005-2007
39. Jonathan Reum	Fish communities of Puget Sound	Essington	M.S.	2005-2007
40. George Pess	Salmon community ecology	Quinn	Ph.D.	2005-present
41. Erik Schoen	Food web of Lake Chelan	Beauchamp	M.S.	2005-present
42. Ryan Simmons	Chignik sockeye salmon	Hilborn	M.S.	2006-present
43. Jonny Armstrong	Stream fish communities	Quinn	M.S.	2006-present
44. Jennifer Moslemi (Cornell University)	Disturbance and stoichiometry in streams	Flecker	Ph.D.	2006-present
45. Jackie Carter (chair)	Climate change and Alaska zooplankton	Schindler	M.S.	2007-present
46. Jennifer Griffiths (chair)	Geomorphic effects on thermal characteristics of sockeye habitat	Schindler	M.S.	2007-present
47. Casey Ruff (chair)	Salmon subsidies to sport fishes in Alaska	Schindler	M.S.	2007-present
48. Kirsten Ferris	Mercury bioaccumulation in tunas	Essington	Ph.D.	2007-present
49. Eric Larson	Invasive crayfish in the PNW	Olden	Ph.D.	2007-present
50. Chris Eaton	Estuarine habitat of PNW salmon	Simenstad	M.S.	2007-present

10. Funded research grants since 2002 (* indicates active grant)

- 1) *Amphibian inventory and monitoring in the Olympic National Park*. United States Geological Survey, Corvallis, OR. June 2000 – May 2002. (\$50,143) PI: Schindler.
- 2) *Investigation of factors influencing sockeye growth and survival in Lake Washington*. City of Seattle. May 2001 – May 2002. (\$35,000). PIs: D. Beauchamp, D.E. Schindler
- 3) *Enhancement of field stations in Bristol Bay, Alaska*. National Science Foundation-Field Stations Program (\$165,772) PI: T. Quinn, co-PI: D. Schindler, R. Hilborn.
- 4) *Integrative Graduate Education and Research Traineeship (IGERT) in Urban Ecology*. National Science Foundation (\$2.7M) 2001-2006. PI: C. Zumbrunnen. Schindler is one of 17 Supporting Faculty
- 5) *Patterns of variability in Alaskan salmon populations and their ecosystems during the last five centuries*. NSF-Biological Oceanography (\$527,703) 2002-2005 PI: Schindler, co-PI: R. Francis, N. Mantua, P. Quay
- 6) *Patterns of variability in Alaskan salmon populations and their ecosystems during the last five centuries – REU Supplement*. NSF-Biological Oceanography (\$7076) 2002-2005 PI: Schindler, co-PI: R. Francis, N. Mantua, P. Quay
- 7) *Climate and density-dependent effects on the ecology of sockeye salmon and their freshwater ecosystems*. NSF-LTREB (\$120,000) 2002-2004 PI: T. Quinn, co-PI: Schindler and R. Hilborn
- 8) **Limnology Transition II* – Andrew Mellon Foundation (\$446,542) 2002-2007. PI: Schindler
- 9) **Biocomplexity and fisheries sustainability*. NSF- Biocomplexity (\$2.0M) 2004-2008. PI: R. Hilborn, co-PI: Schindler, T. Quinn, L. Hauser, C. Costello, G. Knapp, J. Seeb.
- 10) **Long-term monitoring of sockeye salmon and their ecosystems in southwestern Alaska*. (\$2.3M) The Gordon and Betty Moore Foundation 2005-2008. PI: R. Hilborn, co-PI: Schindler, Quinn.
- 11) *Zooplankton monitoring in Lake Washington*. (\$16,000). The City of Seattle. 2005-2006. PI: Schindler.
- 12) **A long-term perspective on salmon populations throughout the North Pacific Ocean*. (\$2.4M) The Gordon and Betty Moore Foundation 2005-2008. PI: Schindler, co-PI: B.P. Finney, P.R. Leavitt, I. Gregory-Eaves.
- 13) **Variation in salmon abundance at Togiak National Wildlife Refuge over the past 500 years*. (\$90,000) US Fish and Wildlife Service. 2006-2010. PI: Schindler

- 14) **Challenge Grant for Variation in salmon abundance at Togiak National Wildlife Refuge over the past 500 years.* (\$30,000) US Fish and Wildlife Service. 2007. PI: Schindler
- 15) **Zooplankton monitoring in Lake Washington.* (\$18,834). The City of Seattle. 2007-2008. PI: Schindler.
- 16) *Rapid habitat evolution and biocomplexity of sockeye salmon in the Chignik Lakes system.* (\$200,000) Chignik Regional Aquaculture Association. 2008-2010. PI: Schindler, co-PI: R. Hilborn. Submitted pre-proposal.

**In addition to the grants listed here, several of my graduate students have received national fellowships for which I have been listed as the official PI. (see graduate student advising, above).*

11. Invited talks and presentations (2002-2008)

At other academic and research institutions:

- 1) British Columbia Ministry of the Environment, Kelowna, BC (January 2008). Climate change and biocomplexity in aquatic ecosystems of coastal North America. (invited keynote address)
- 2) University of Stockholm, Stockholm, Sweden (February 2008). Climate change and biocomplexity in aquatic ecosystems of coastal North America.
- 3) Lund University, Lund, Sweden (February 2008). Climate change and biocomplexity in aquatic ecosystems of coastal North America.
- 4) University of Michigan, Ann Arbor, MI (March 2007). Climate change and aquatic ecosystems: what responses to expect and what we can do about them?
- 5) Miami University of Ohio, Oxford, OH (March 2007) Effects of climate change on aquatic ecosystems of the Pacific Northwest.
- 6) Ministry of Environment Government of British Columbia, Victoria, BC. (February 2007). Climate change effects on aquatic ecosystems.
- 7) Arctic-Yukon-Kuskokwim Sustainable Salmon Initiative, Anchorage, AK (February 2007). Responses of salmon populations to climate variability in freshwaters.
- 8) National Center for Ecological Analysis and Synthesis, Santa Barbara, CA (February 2007) Mesoscale responses of salmon to climate change.
- 9) University of California-Berkeley (February 2007) Effects of climate change on aquatic ecosystems of the Pacific Northwest.
- 10) Western Washington University, Bellingham, WA. (October 2006) Effects of climate change on aquatic ecosystems of the Pacific Northwest.
- 11) Dartmouth College (February 2006). Small effects and big causes: aquatic ecosystem responses to climate change.
- 12) Franklin and Marshall College (November 2005). Would we recognize a sustainable fishery if we saw one? A case study of Bristol Bay, Alaska.
- 13) Cornell University (October 2005). Pacific salmon as keystone species in coastal ecosystems
- 14) University of Quebec at Montreal. (October 2004) Aquatic ecosystem responses to climate change in western North America.
- 15) UW Climate Impacts Group, Paleo Northwest Workshop, Bellingham, WA. (April 2004). Paleorecords of salmon abundance in the Pacific Northwest.

- 16) US National Academy of Sciences, Beckman Frontiers of Science Symposium, Beckman Center, Irvine California. (November 2003) Local adaptation and climate change: Can organisms keep up?
- 17) Utah State University. (April 2004) Aquatic ecosystem responses to climate change in western North America.
- 18) University of Montana. (March 2004). Aquatic ecosystem responses to climate change in western North America.
- 19) Cornell University (November 2003) Aquatic ecosystem responses to climate change in western North America.
- 20) Alaska Department of Fish and Game, Anchorage, Alaska (September 2003). Effects of climate change on sockeye salmon in Bristol Bay, Alaska.
- 21) University of Minnesota-Duluth (November 2002). Habitat coupling in aquatic ecosystems.
- 22) Boston University (March 2002). Why oceans and forests matter to lakes.
- 23) Marine Biological Laboratory – Ecosystems Center (March 2002). Why oceans and forests matter to lakes.

** In addition to the talks listed here, I have also been author or co-author of over 25 presentations at international and regional conferences since 2002.*

Departmental seminars on University of Washington campus

- 1) TriBeta Biology Honors Society. Climate change and aquatic ecosystems in the Pacific Northwest. May 1, 2008.
- 2) College of Ocean and Fishery Sciences, presentation to fishing industry representatives on Climate Change Effects on Ecosystems. November 2006
- 3) School of Aquatic and Fishery Sciences, Bevan Series on Sustainable Fisheries. Would we recognize a sustainable fishery if we saw one? A case study of Bristol Bay, Alaska. January 2005.
- 4) Climate Impacts Group. Climate change and freshwater ecosystems on the west coast. February 2004.
- 5) School of Aquatic and Fishery Sciences. Climate change and freshwater ecosystems on the west coast. April 2003.
- 6) Quaternary Research Center. Pacific salmon and the ecology of coastal ecosystems. February 2003.
- 6) School of Oceanography. Habitat coupling in lake ecosystems. February 2003.

Public presentations

- 1) United Fisherman of Alaska, and Trout Unlimited, Value of biocomplexity for salmon sustainability – implications of the Pebble Mine. February 21, 2008.
- 2) Board of Fisheries Management, Dillingham, AK. Value of biocomplexity for sustainability of Bristol Bay sockeye salmon: implications of proposed Pebble Mine. December 2006.
- 3) The Nature Conservancy of Washington, Seattle, WA. Evidence for biological responses to recent climate change in aquatic ecosystems. April 2005.
- 4) Washington Lake Protection Association, Chelan WA. April 2003.
- 5) City of Seattle, Habitat Conservation Planning Committee. Limnology of Lake Washington. January 2003.

12. Bibliography

Refereed journal and book articles:

(DES contributions noted by the following: I=ideas, \$=fund raising, A=analysis, W=writing; students and post-docs under my supervision noted by underline)

78. Westley, PAH, R. Hilborn, TP Quinn, GT Ruggerson, and DE. Schindler. 2008. Long-term changes in rearing habitat and downstream movement by juvenile sockeye salmon (*Oncorhynchus nerka*) in an interconnected Alaska lake system. *Ecology of Freshwater Fish*. Doi: 10.1111/j.1600-0633.2008.00296.x (I\$AW)
77. Francis, T.B., D.E. Schindler, J.M. Fox, and E. Seminet-Renault. 2008. Effects of urbanization on the dynamics of organic sediments in north temperate lakes. *Ecosystems* 10: 1057-1068. (I\$AW)
76. Moore, J.W., D.E. Schindler, and C.P. Ruff. 2008. Habitat saturation drives thresholds in stream subsidies. *Ecology*.89: 306-312. (I\$AW)
75. Moore, J.W., and D.E. Schindler. 2008. Biotic disturbance and community dynamics in salmon-bearing streams. *Journal of Animal Ecology* 77: 275-284. (I\$AW)
74. Brock, C.S., P.R. Leavitt, D.E. Schindler, and P.D. Quay. 2007. Variable effects of marine-derived nutrients on algal production in salmon nursery lakes of Alaska during the past 300 years. *Limnology and Oceanography* 52: 1588-1598. (I\$AW)
73. Scheuerell, M.D., J.W. Moore, D.E. Schindler, and C.J. Harvey. 2007. Varying effects of anadromous salmon on the trophic ecology of resident stream fishes in Alaska. *Freshwater Biology* 52: 1944-1956. (I\$AW)
72. Moore, J.W., D.E. Schindler, J.L. Carter, J. Fox, J. Griffiths, and G.W. Holtgrieve. 2007. Biotic control of stream fluxes: spawning salmon drive nutrient and matter export. *Ecology* 88: 1278-1291. (I\$AW)
71. Schindler, D.E. 2007. Fish extinctions and ecosystem functioning in tropical ecosystems. *Proceedings of the National Academy of Sciences, USA* 104: 5707-5708. (IW)
70. Hampton, S.E., and D.E. Schindler. 2006. Empirical evaluation of observation scale effects in community time series. *Oikos* 113: 424-439. (I\$AW)
69. Brock, C.S., P.R. Leavitt, D.E. Schindler, S.P. Johnson, and J.W. Moore. 2006. Spatial variability of stable isotopes and fossil pigments of Alaskan coastal lakes: constraints on quantitative estimates of past salmon abundance. *Limnology & Oceanography* 51: 1637-1647. (I\$AW)
68. Hampton, S.E., M.D. Scheuerell, and D.E. Schindler. 2006. Coalescence in the Lake Washington story: Interaction strengths in a planktonic food web. *Limnology & Oceanography* 51: 2042-2051. (I\$AW)
67. Schindler, D.E., P.R. Leavitt, S.P. Johnson, and C.S. Brock. 2006. A 500-year context for the recent surge in sockeye salmon (*Oncorhynchus nerka*) abundance in the Alagnak River, Alaska. *Canadian Journal of Fisheries and Aquatic Sciences* 63: 1439-1444. (I\$AW)
66. Francis, T.B., and D.E. Schindler. 2006. Degradation of littoral habitats by residential development: Woody debris in lakes of the Pacific Northwest and Midwest, United States. *Ambio* 35: 274-280. (I\$AW)
65. Francis, T.B., D.E. Schindler, and J.W. Moore. 2006. Aquatic insects play a minor role in dispersing salmon-derived nutrients into riparian forests in southwestern Alaska. *Canadian Journal of Fisheries and Aquatic Sciences* 63: 2543-2552. (I\$AW)
64. Schindler, D.E., P.R. Leavitt, C.E. Brock, S.P. Johnson, and P.D. Quay. 2005. Marine derived nutrients, commercial fisheries, and production of salmon and lake algae in Alaska. *Ecology* 86: 3225-3231. (I\$AW)

63. Scheuerell, J.M., D.E. Schindler, M.D. Scheuerell, K.L. Fresh, T.H. Sibley, A.H. Litt, and J.H. Shepherd. 2005. Temporal dynamics in foraging behavior of a pelagic predator. *Canadian Journal of Fisheries and Aquatic Sciences* 62: 2494-2501. (ISAW)
62. Schindler, D.E., D.E. Rogers, M.D. Scheuerell, and C.A. Abrey. 2005. Effects of changing climate on zooplankton and growth of juvenile sockeye salmon in southwestern Alaska. *Ecology* 86: 198-209. (ISAW)
61. Romare, P., D.E. Schindler, M.D. Scheuerell, J.M. Scheuerell, A.H. Litt, J.H. Shepherd. 2005. Variation in spatial and temporal gradients in zooplankton spring development: the effect of climatic factors. *Freshwater Biology* 50: 1007-1021. (ISAW)
60. Payne, L.X., D.E. Schindler, J.K. Parrish, and S.A. Temple. 2005. Quantifying spatial patterns with heterogeneity indices. *Ecological Applications* 15: 507-520. (IAW)
59. Palen, W.J., Williamson, C.E., Clauser, A.A., and Schindler, D.E. 2005. Impact of UV-B exposure on amphibian embryos; linking species physiology to oviposition behavior. *Proceedings of the Royal Society of London B* 272:1227-1234. (ISAW)
58. Winder, M., D.E. Schindler, J.W. Moore, S.P. Johnson, and W.J. Palen. 2005. Do bears facilitate transfer of salmon nutrients to aquatic macroinvertebrates? *Canadian Journal of Fisheries and Aquatic Sciences* 62: 2285-2293 (ISAW)
57. Moore, J.W., and D.E. Schindler. 2004. Nutrient export from freshwater systems by anadromous sockeye salmon. *Canadian Journal of Fisheries and Aquatic Sciences*.61: 1582-1589. (ISAW)
56. Winder, M. and D.E. Schindler. 2004. Climatic effects on the phenology of lake processes. *Global Change Biology* 10:1844-1856. (ISAW)
55. Winder, M. and D.E. Schindler. 2004. Climate change uncouples trophic interactions in an aquatic ecosystem. *Ecology* 85:2100-2106. (ISAW)
54. Moore, J.W., D.E. Schindler, and M.D. Scheuerell. 2004. Disturbance of freshwater habitats by anadromous salmon in Alaska. *Oecologia* 139: 298-308. (ISAW)
53. Scheuerell, M.D., and D.E. Schindler. 2004. Changes in the spatial distribution of fishes in lakes along a residential development gradient. *Ecosystems* 7: 98-106. (ISAW)
52. Arhonditsis, G.B., M.T. Brett, C.L. DeGasperi, and D.E. Schindler. 2004. Effects of climatic variability on the thermal properties of Lake Washington. *Limnology and Oceanography* 49: 256-270. (AW)
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Articles in press

1. Rogers, L.A., and D.E. Schindler. Synchrony and response diversity among sockeye salmon populations at fine spatial scales. *Oikos* (ISAW)

Articles currently in peer review

5. Schindler, D.E, X. Augerot, E. Fleishman, N.J. Mantua, B. Riddell, M. Ruckelshaus, J. Seeb and M. Webster. Climate change, ecosystem impacts, and management for Pacific salmon. *Fisheries*.
4. Selbie, D., I. Gregory-Eaves, B.P. Finney, and D.E. Schindler. Landscape and climatic controls on sedimentary characteristics of North American sockeye salmon nursery lakes: Insights for paleoecological salmon investigations. *Limnology and Oceanography*
3. Winder, M., D.E. Schindler, T.E. Essington, A.H. Litt, and W.T. Edmondson. Disrupted seasonal clockwork in the population dynamics of a freshwater copepod by climate warming. *Global Change Biology*. (ISAW)
2. Johnson, S.P, and D.E Schindler. Trophic ecology of Pacific salmon (*Oncorhynchus spp.*) in the ocean: a synthesis of stable isotope research. *Ecological Research* (ISAW)
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Other published contributions:

4. Schindler, D.E. 2005. Ecological stoichiometry: The biology of elements from molecules to the biosphere by J.J. Elser and R. Sterner. (Book Review) *Quarterly Review of Biology* 78:501. (IW)
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1. Schindler, D.E. Fisheries as drivers of large-scale change in aquatic ecosystems. 2004. Proceedings of a Workshop on the Ecology of Caspian Sea. *The Iranian Academy of Sciences*. 45-57. (IW)

Technical Reports:

11. Schindler, D.E., P. Walsh, M. Lisac, and P.R. Leavitt. 2007. Variation in salmon abundance at the Togiak National Wildlife Refuge over the past 3-5 centuries. U.S. Fish and Wildlife service, Togiak National Wildlife Refuge, Dillingham, Alaska.
10. Schindler, D.E., A.H. Litt, and C.P Ruff. 2006. Spring zooplankton abundances in Lake Washington, 2001- 2006. Prepared for Seattle Public Utilities.
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6. Palen, W.J., and D.E. Schindler. 2003. Amphibian inventory and monitoring in Olympic National Park (2000-2002). Technical Report to the US Geological Survey.
5. Shepherd, J.H., D.A. Beauchamp, and D.E. Schindler. 2002. Abundances and lengths of zooplankton in Lake Sammamish, 1998-2001. Technical Report to King County.
4. Rogers, D., T. Quinn, D. Schindler, R. Britton, and R. Hilborn. 2002. Alaska Salmon Research, Annual Report 2001. UW-Fisheries Technical Report.
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2. Quinn, T., R. Steen, D. E. Schindler, W. Lew, R. Hilborn and D. Rogers. 2000. Alaska Salmon Research, 1999. Alaska Salmon Program, Annual Report to Bristol Bay Processors. UW-Fisheries Technical Report.
1. Hanson, P.C., T.B. Johnson, D.E. Schindler and J.F. Kitchell. 1997. Fish Bioenergetics 3.0. University of Wisconsin Sea Grant Institute.

Popular Contributions:

- Schindler, Daniel and Thomas Quinn. Alaskans, Consider Lower 48's Mistakes *in* Compass: Points of View from the Community, *Anchorage Daily News*, March 13, 2006. (IW)
- Schindler, Daniel and Ray Hilborn. Consider the Fraser River when considering the coexistence of mining and salmon fisheries. *Anchorage Daily News*, March, 2008. (IW)

Graduate Student Training

Much of my research effort is directed towards graduate student and post-doctoral training. Graduate students are involved in nearly all aspects of my research, and in many cases, they accomplish the primary objectives of research projects in my lab. I strongly encourage collaborative work among students and as a result believe that our group can answer questions of much larger scope than if we were a collection of independent researchers. I also work hard with graduate students to develop their skills at publishing peer-reviewed papers and in writing grant proposals. I believe that my dedication to graduate and post-doctoral training is reflected in the professional success of my students. First, many of them have been awarded the most prestigious national graduate fellowships (see list of graduate students, page 5-6). Second, all of my students actively publish their research findings both with me as a co-author (see Bibliography, pages 11-16) and independent of me (see list below). Third, my students have also received several awards at national meetings and have all been successful at securing employment in their chosen field following graduation (see lists below).

A. Graduate student publications from Schindler group (in addition to those listed on Schindler Bibliography)

1. Scheuerell MD. 2004. Quantifying aggregation and association in three dimensional landscapes. *Ecology* 85: 2332-2340.
2. Rudstam LG, Van de Valk A, Scheuerell MD. 2002. Comparison of acoustic and standard estimates of larval fish abundance in Oneida Lake, New York. *Fisheries Research* 57: 145-154.
3. Moore, J.W., J.L. Ruesink, and K.A. McDonald. 2004. Impact of supply-side ecology on consumer-mediated coexistence. *The American Naturalist* 163: 480-487.
4. Moore, J.W., and J.L. Kenagy. 2004. Consumption of shrews, *Sorex* spp., by Arctic Grayling, *Thymallus arcticus*. *Canadian Field-Naturalist* 118: 111-114.
5. Francis, T.B., K.A. Whittaker, V. Shandas, A. Mills and J.K. Graybill. 2005. Incorporating science into the environmental policy process: A case study from Washington State. *Ecology and Society* 10: 35.

6. Johnson, S.P., S.M. Carlson, and T.P. Quinn 2006. Tooth size and skin thickness in mature sockeye salmon: evidence for habitat constraints and variable investment between the sexes. *Ecology of Freshwater Fish* 15:331-338.
7. Tallis, H., and P. Kareiva. 2006. Shaping global environmental decisions using socio-ecological models. *Trends in Ecology and Evolution* 21: 562-568.
8. Tallis, H., and P. Kareiva. 2005. Ecosystem services. *Current Biology* 15: R746-748.
9. Stoms, D.M., F.W. Davis, S.J. Andelman, M.H. Carr, S.D. Gaines, B.S. Halpern, R.S. Hoenicke, G. Leibowitz, A. Leydecker, E.M.P. Madin, H. Tallis, and R.R. Warner. 2005. Integrated coastal reserve planning: making the land-sea connection. *Frontiers in Ecology and the Environment* 3: 429-436.
10. Moore, J.W. 2006. Animal ecosystem engineers of streams. *BioScience* 56: 237-246.
11. Payne, L.X., and J.W. Moore. 2006. Mobile scavengers create hotspots of biological productivity in freshwater ecosystems. *Oikos* 115: 69-80.
12. Tallis, H., Z. Ferdana, and E. Gray. Linking terrestrial and marine conservation planning and threats analysis. *Conservation Biology* (in press)

B. Miscellaneous student awards

Mark Scheuerell	(2001)	Best paper by a graduate student at the annual meeting of the Ecological Society of America – Aquatic Section, Madison, WI.
Mark Scheuerell	(2002)	Best Student Presentation, American Fisheries Society Alaska Chapter Annual Meeting, Girdwood Alaska.
Heather Tallis	(2002)	Pacific Coast Shellfish Growers Assoc. Award: Student talk most applicable to industry
Wendy Palen	(2005)	Best paper by a graduate student at the annual meeting of the Ecological Society of America – Aquatic Section, Portland, OR.
Wendy Palen	(2006)	Thomas Frost Award for best paper published by a graduate student. Aquatics section of the Ecological Society of America

C. Professional positions held by past graduate students

Mark Scheuerell	Research Scientist	National Marine Fisheries Service, Seattle, WA
Amanda Stanley	Project Director	Institute of Applied Ecology, Corvallis, OR
Wendy Palen	Research Associate Assistant Professor	University of California-Berkeley; Simon Fraser University, Vancouver, BC (August 2007 - present)
Heather Tallis	Lead Scientist	Natural Capital Project, Stanford University
Jonathan Moore	NRC Post-Doc Assistant Professor	National Marine Fisheries Service, Seattle, WA; University of California-Santa Cruz (starting January 2008)
Jennifer Scheuerell	Database Manager	University of Washington, Alaska Salmon Program

D. Post-doctoral trainees and current positions

Monika Winder	(2002-2004)	Research Associate, John Muir Institute of the Environment, University of California-Davis
Stephanie Hampton	(2002-2004)	Deputy Director, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA
Pia Romare	(2003)	Research Associate, Lund University, Sweden
Hideyuki Doi	(2006-2007)	JSPS Postdoctoral Research Fellow, Ehime University, Japan
Simone Alin	(2006-2007)	Research Scientist, NOAA, Seattle
Thomas Reed	(2008-present)	Research Associate, University of Washington

E. Post doctoral publications from Schindler group (in addition to those listed on Schindler Bibliography)

4. Hampton, S.E., P. Romare, and D.E. Seiler. Environmentally controlled overwintering success in two *Daphnia* species with implications for sockeye salmon fry in Lake Washington. *Freshwater Biology*
3. Wilson, K.A., and S.E. Hampton. 2004. Ecology Teaching Tips for First-year Professors. *ESA Bulletin* 85(2): 56-64.
2. Jeppesen, E., M. Sondergaard, A. P. Jensen, K. Havens, and others. 2005. Lakes' response to reduced nutrient loading - an analysis of contemporary data from 35 European and North American long term studies. *Freshwater Biology* 10: 1747-1771. (M. Winder and S. Hampton were co-authors)
1. Hampton, S.E. 2005. Increased niche differentiation between two *Conochilus* species over 33 years of climate change and food web alteration. *Limnology & Oceanography*.50: 421-426.