

SUSAN M. ALLEN-GIL

Associate Professor
Biology Department
Ithaca College
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Education

- Ph.D.** Toxicology, Oregon State University, Corvallis, OR. 1995.
M.E.M. School of Forestry and Environmental Studies, Duke University, Durham, NC.
1989
B. S. Saint Lawrence University, Canton, NY. Biology and environmental studies.
1984

Professional Experience

Associate Professor, Biology Department, Ithaca College. 1998-present

Courses Taught: Environmental Science I, Environmental Science II, Environmental Health and Medicine, Environmental Toxicology, Ecology of Aquatic Communities, Tropical Ecology (Costa Rica), Ecological Restoration and Sustainable Development in Costa Rica, Natural Resource Management and Ecotourism (Baja), European Environmental Issues (London), Alternative Futures, Principles of Biology I Lab, Principles of Biology II Lab, Literature in Biology, Biology Seminar

Nominated for excellence in teaching (1999-2000), and CASE US Professor of the Year (2005)

Coordinator, Environmental Studies Program, Ithaca College. 2006-present

National Research Council Postdoctoral Fellow, U.S. Environmental Protection Agency, National Health and Ecology Effects Research Laboratory, Western Ecology Division. Advisor: D.H. Landers, 1995-1998.

Assistant Professor, Courtesy Appointment, Department of Fisheries and Wildlife, Oregon State University (1996-present). Taught course in Mercury as a Global Pollutant, 1996.

National Academy of Sciences Young Investigator, Workshop on Ecological Concerns in the Development of the Arctic and Far Northern Regions with Russia. 1993-1994.

Graduate Research Assistant, Oak Creek Laboratory of Biology, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR. 1989-1991

Environmental Specialist, North Carolina Department of Natural Resources and Community Development, Raleigh, NC. 1988-1989.

Assistant Program Coordinator, School for Field Studies, Beverly, MA. 1985-1987.

Fellow, Thomas J. Watson Foundation, Providence RI. 1984-1985.

Grants

NATO, Public Diplomacy Division (50,000 €) to convene an Advanced Research Workshop on "Rethinking Higher Education to Meet the New Challenges of Environmental Security", in Kharkiv, Ukraine. (2007)

Ithaca Fund (\$400) to take students in Environmental Science on the M/V Handel

research vessel on Cayuga Lake (2006)

Office of the Provost Travel Grant (\$1400) to take students in Environmental Toxicology to the Society of Environmental Toxicology and Chemistry Annual Meeting (2005)

Title VI State Department Grant to Ithaca College (\$3630) to help integrate Latin American Studies into the IC curriculum by investigating opportunities in Oaxaca, Mexico.

Instructional Development Fund Award (2004)

People and the Planet, \$1,200

NSF CCLI, A & I Program (2002-2005)

Applying Science to Sustainability (\$332,000 including matching funds)

Academic Project Grant (2002)

Environmentally Safe Molluscicides for Use in Aquaculture, \$750

Instructional Development Fund Award (2001)

Teaching Environmental Solutions and Sustainability, \$1,220

NSF Office of Polar Programs (1999-2002)

Sources of organochlorine contamination in inland subsistence fisheries of northern Alaska: atmospheric vs. anadromous inputs, \$271,897

Summer Faculty Research Award (1999)

Cumulative impacts of exogenous endocrine disruption and habitat degradation on freshwater fish, \$3,500

Academic Project Grant (1999)

Cumulative impacts of exogenous endocrine disruption and habitat degradation on freshwater fish, \$750

Honors and Awards

CASE US Professor of the Year Nominee, 2005

School of Humanities and Sciences Dean's Merit Award, 2003-2004, 2005-2006

Young Investigator Award, 1993-1994. National Academy of Sciences.

Mellon Foundation Fellowship, 1987-1989.

Thomas J. Watson Fellowship, 1984-1985. Fellowship selection based on "showing outstanding promise as a useful member of the world community".

Publications

Peer-reviewed journals:

Allen-Gil, S. and O. Borysova (2007), Environmental Security In Transition Countries: Knowledge Gaps, Hurdles And Effective Strategies To Address Them. In: Hull, R., Barbu, C-H. And Goncharova, N. (Eds). Strategies To Enhance Environmental Security In Transition Countries. NATO Security Through Science Series C: Environmental Security. Springer Publishing.

Allen-Gil, S., (2007). Lessons Learned From The North: Balancing Economic Development, Cultural Preservation, And Environmental Protection. NATO Science Series.

Allen-Gil, S., L. Walker, G. Thomas, T. Shevory and E. Shapiro. 2005. Forming a community partnership to enhance education in sustainability. International Journal of Sustainability in Higher Education. 6(4): 392-402.

Aldea., M.* And S. Allen-Gil, Pokeweed (*Phytolacca americana*) as a Potential

- Molluscicide for Use in Aquaculture. Bulletin of Environmental Chemistry and Toxicology 74(5):822-829 *- student co-author.
- Allen-Gil, S.M., J. Ford, B.K. Lasorsa, M. Monetti, T. Vlasova, and D.H. Landers. Heavy metal contamination in the Taimyr Peninsula, Siberian Arctic. 2003. Science of the Total Environment, 301: 119-138.
- Niescierenko, M. 2001 (under the direction of S. Allen-Gil). Evaluation of preventative fungal treatment on fathead minnow (*Pimephales promelas*) larval survival and growth. BIOS: A Quarterly Journal of Biology 72(4): 123-127.
- Palace, V.P., S.M. Allen-Gil, S.B. Brown, R.E. Evans, D.A. Metner, D.H. Landers, L.R. Curtis, J.F. Klaverkamp, C. L. Baron and W.L. Lockhart. 2001. Vitamin and thyroid status in arctic grayling (*Thymallus arcticus*) exposed to doses of 3,3',4,4'-tetrachlorobiphenyl that induce the phase I enzyme system, Chemosphere, 45(2): 185-193.
- Allen-Gil, S.M. (Editor). 2000. New Perspectives in Electrofishing. U.S. Environmental Protection Agency, Office of Research and Development, Report # EPA/600/R-99/108.
- Allen-Gil, S.M., D.H. Landers, T.L. Wade, J.L. Sericano, and L.R. Curtis. 1997. Heavy metals, organochlorine pesticides and polychlorinated biphenyls in arctic ground squirrels (*Spermophilus parryi*) in northern Alaska. Arctic 50:323-333.
- Allen-Gil, S.M., D.H. Landers, T.L. Wade, J.L. Sericano, and L.R. Curtis. 1997. Organochlorine pesticides and polychlorinated biphenyls in U.S. Arctic aquatic ecosystems, Arch. Environ. Contam. Toxicol. 33: 378-387.
- Allen-Gil, S.M., C.P. Gubala, D.H. Landers, B.K. Lasorsa, E.A. Crecelius, and L.R. Curtis. 1997. Heavy metal accumulation in sediment and freshwater fish in U.S. Arctic lakes. Environ. Toxicol. Chem. 16: 733-741.
- Allen-Gil, S.M., D. Gilroy and L.R. Curtis. 1995. An ecoregion approach to mercury bioaccumulation by fish in reservoirs. Arch. Environ. Contam. Toxicol. 28: 61-68.
- Allen-Gil, S.M. and V. Martynov. 1995. Heavy metal burdens in nine species of freshwater and anadromous fish from the Pechora River, Northern Russia. Sci. Total Environ. 160/161: 643-654.
- Ford, J., D. Landers, D. Kugler, B. Lasorsa, S. Allen-Gil, E. Crecelius, and J. Martinson. 1995. Inorganic contaminants in Arctic Alaska Ecosystems: Long-range atmospheric transport or local point sources? Sci. Total Environ. 160/161: 323-336
- Gubala, C.P., D.H. Landers, M. Monetti, M. Heit, S. Allen-Gil, L. Curtis and J. Ford. 1995. The rates of accumulation and chronologies of atmospherically derived pollutants in arctic Alaska, USA. Sci. Total Environ. 160/161:347-361.
- Lasorsa, B.K. and S. M. Allen-Gil. 1995. The methylmercury to total mercury ratio in marine, freshwater, and terrestrial organisms: an overview. Water, Air and Soil Pollut. 80: 905-913.
- Wilson, R., S.M. Allen-Gil, D. Griffin, J. Wilkins, and D.H. Landers. 1995. Organochlorine contaminants in freshwater fish in the U.S. Arctic. Sci. Total Environ. 160/161:511-520.

Reports and Proceedings:

- Allen-Gil, S., P. Bardaglio, L. Walker. 2005. Educating for Sustainability: Ithaca College and Ecovillage at Ithaca. Proceedings of the Greening of the Campus VI: Extending connections, Ball State University, pages 5-17.

- Landers, D.H., J. Ford, C.P. Gubala, S. Allen, L. Curtis, N. S. Urquhart, and J.M. Omernik. 1992. Arctic Contaminants Research Program Research Plan. EPA/600/R92/210. U.S. Environmental Protection Agency Research Laboratory, Corvallis, OR.
- Allen, S.M. and L.R. Curtis. 1991. An ecoregion approach to mercury dynamics in three Oregon reservoirs. Report for the Oregon Department of Environmental Quality.
- Allen, S.M. 1989. The adaptation of an index of biotic integrity to streams of the coastal plain drainage basins in North Carolina. Report for the North Carolina Division of Environmental Management, Water Quality Section.

Recent abstracts and presentations

- Allen-Gil, S. "Making a World of Difference Through International Experiences". Faculty Speaker for the IC Capital Campaign Kick-Off at the Australian Embassy Washington DC. (12/06).
- Allen-Gil, S. Educating for Sustainability: Ithaca College" at the Sustainability, Science, and Liberal Arts Colleges hosted by the Christian A. Johnson Endeavor Foundation. NY, NY. (11/06)
- Allen-Gil, S. Lessons Learned From The North: Balancing Economic Development, Cultural Preservation, And Environmental Protection, NATO Advanced Research Workshop, Strategies to Enhance Environmental Security in Transition Countries. Sibiu, Romania, (9/06).
- Allen-Gil, S. ICLCEC News Report: Stories from the Other Side of the Big Pond. IC Biology Department Seminar Series, (9/06)
- Allen-Gil, S.M. and P. Bardaglio, Educating for Sustainability: Ithaca College and EcoVillage at Ithaca" Greening the Campus, Ball State University. Muncie, IN. (9/05).
- Allen-Gil, S.M., P. Bardaglio and L. Walker, Educating for Sustainability: Ithaca College and EcoVillage at Ithaca. Annual meeting of the American Association of Colleges and Universities in San Francisco, California. (1/05).
- Allen-Gil, S.M., Earth Café 2050 workshop, Northeast Campus Sustainability Summit, University of New Hampshire. (10/04)
- Allen-Gil, S.M, The Next Generation: Educating for Sustainability. National Environmental Assistance Summit, Baltimore, Maryland. (4/04)
- Allen Gil, S.M. and Aldea, M. Pokeweed (*Phytolacca americana*) as a Potential Molluscicide for Use in Aquaculture. Society of Environmental Toxicology and Chemistry's 24th Annual Meeting in Austin, TX, (11/ 03).
- Allen-Gil, S.M., J. Ford, *J. Seigle*, M. Akpik, J. Woods and J. Nashagnik. PCB composition in searun vs. resident whitefish in subsistence fisheries of northern Alaska. Society of Environmental Toxicology and Chemistry's 24th Annual Meeting in Austin, TX. (11/ 03).
- Ford, J., S. Allen-Gil, M. Akpik, J. Nashagnik, and J Woods. Listening to fish: science and wisdom on the Alaskan Arctic Coastal Plain. Ecological Society of America Annual Meeting, Santa Fe, NM, (8/03).
- Allen-Gil, S.M., J. Ford, *J. Seigle*, M. Akpik, J. Woods and J. Nashagnik. Canadian Northern Contaminants Program, Ottawa, Canada, 3/03. Upstream or Downwind? The roles of biotransport and atmospheric deposition in POP accumulation in inland

arctic subsistence fisheries (3/03).

Ford., J., S. Allen-Gil, M. Akpik, J. Nashagnik, and J Woods. Toxins, toxins, who's got the toxins?: Searun vs resident whitefish of the western Alaskan Arctic. Amer. Fish. Soc., 2003.

Ford., J., S. Allen-Gil, M. Akpik, J. Nashagnik, and J Woods. Mercury in inland and coastal lakes of the Alaska Arctic. Canadian Arctic Contaminants Assessment Symposium, Ottawa, Canada, March 2003.

Allen-Gil, S., J.Ford, J. Seigle, M. Akpik, J. Nashagnik, and J. Woods. 2002. Upstream or Downwind? The roles of biotransport and atmospheric deposition in Hg accumulation in inland arctic subsistence fisheries. Society of Environmental Toxicology and Chemistry, Salt Lake City, UT.

Professional activities/scientific outreach

Invited Expert, Strategies to Enhance Environmental Security in Transition Countries, NATO Advanced Research Workshop, Sibiu, Romania (9/06)

Invited Expert, Multiple Stressors in Aquatic Environments, Water Environment Research Foundation, (9/05)

Invited Speaker, Ithaca College Faculty Development Series, Teaching Sustainability (2//03)

Invited Speaker, Wells College Environmental Program Seminar Series (Invited speaker: 2/14/03)

Co-Instructor, Envirosleuths, week-long course on environmental sustainability for 1st-3rd grades at the Elizabeth Anne Clune Montessorri School of Ithaca, June 2003.

Panelist, NSF Review Board for CCLI grants, Jan. 2003.

Board Member, Academic Review Board, Sea Education Assoc. Appointed 3/2001

President-elect, Phi Beta Delta, Honor Society for International Scholars, 2002.

Invited interviewee, KBRW, Barrow Alaska, Aug. 18, 2000.

Invited speaker, Hopson Middle School, Barrow AK, Bioaccumulation and subsistence food chains Feb., 2000.

Invited speaker, Elmira Federal Corrections Facility, Elmira, NY, State of the Environment: 1950-2000, March, 1999.

Invited speaker, People, Caribou and Science Conference, Special Section on arctic contamination, Arctic Village, Alaska, November 1993.

Invited lecturer, Corvallis Public Schools, Life Science Program for middle schools. 1993.

Assistant graduate mentor, Earthwatch Program, Ecology of Arctic Ground Squirrels, Toolik Lake Field Station, University of Alaska, Fairbanks. August 1992.

Tour leader, Association for Women in Science, "Expanding your Horizons in Science and Mathematics" Career Day, Oregon State University, Corvallis, OR, April 1991.

Reviewer, New Jersey Department of Environmental Protection, Division of Science and Research. Research proposals for development/ adaptation of methodology for the quantitative assessment of fish communities. 1990.

Interpreter, Massachusetts Division of Environmental Management. Directed environmental education program in state forest in rural area. Summer 1987.

Volunteer, Student Conservation Association/National Park Service, North Cascades National Park revegetation project. Summer 1982.

Certifications and Field Training

First Aid and CPR
Coast Guard Boating Skills and Seamanship
Swiftwater Rescue Technician
Cold Weather Survival and Bear Encounters

Professional Societies

American Fisheries Society
Phi Beta Delta Honor Society for International Scholars
Phi Beta Kappa
Society of Environmental Toxicology and Chemistry

Peer reviewer

Archives of Environmental Toxicology and Chemistry
Arctic
AMBIO
Ecotoxicology & Environmental Safety
ETS Reader: AP Environmental Science
Journal of Wildlife Diseases
National Science Foundation (Polar Programs, Ecological Studies, CCLI)
NATO Science Series
Science of the Total Environment
Water, Air and Soil Pollution