

Curriculum Vitae
C. Susan Weiler
Senior Research Scientist, Whitman College

EDUCATION

Ph.D. Oceanography (1978)

University of California at San Diego, Scripps Institution of Oceanography

Graduate courses School of Natural Resources (1972/73); Wetlands, Computer Science, Statistics

University of Michigan

B.A. with High Honors, Biology (1972)

University of California at San Diego

Junior Year Abroad program (1969/70)

University College Nairobi, Kenya

PROFESSIONAL APPOINTMENTS

Administration

- 2015-2017 **Program Director**, National Science Foundation (NSF), Office of Integrative Activities, Experimental Program to Stimulate Competitive Research (EPSCoR)
- 2009-2012 **Program Director**, NSF Geosciences Directorate (GEO), Atmospheric and Geospace Sciences Division, Interdisciplinary and Cross-Directorate Programs
- 1990-1999 **Executive Director**, American Society of Limnology and Oceanography (ASLO)
 Founder and Editor, ASLO Webpage and *ASLO Bulletin*
- 1989-1991 **Associate Editor** (for Biology), *Oceanography*, published by The Oceanography Society (TOS)
- 1987-1988 **Asst. Program Manager**, NSF/GEO Div. of Polar Programs, Polar Biology & Medicine Program

Research

- 1981-Present **Senior Research Scientist** and **Research Associate**, Whitman College
- 1980-1981 **NATO Postdoctoral Fellow**, University of Oslo, Norway
- 1979-1980 **Visiting Research Scientist**, University of St. Andrews, Scotland
- 1978-1979 **Postdoctoral Researcher**, University of British Columbia, Canada

Teaching

- 1994-present **Short courses and presentations** in conjunction with DIALOG & DISCCRS symposia and professional-development sessions at scientific society meetings; focus on interdisciplinary research, teambuilding, collaboration, communication
- 1993 **Invited, Frank and Marjorie Meek Visiting Scholar** in Fisheries and Ocean Science, University of Alaska, Fairbanks, September 22 - October 8, 1993
- 1981-1991 **Lecturer, Visiting Assistant Professor**, Whitman College (Biology, Environmental Studies, General Studies (humanities sequence))
- 1975 **Teaching Assistant**, University of California at San Diego
- 1972 **Teaching Fellow**, University of Michigan
- 1970 **Secondary school teacher**, Migori Secondary School; Suna, Kenya

AWARDS AND HONORS

- 2012 **NSF Director's Award for Collaborative Integration** from National Science Foundation, for work with the NSF Family Friendly Policies Working Group – see <http://www.nsf.gov/career-life-balance/>
- 2012 **NSF Director's Award for Collaborative Integration** from National Science Foundation, for IGERT Cyberinfrastructure Framework for 21st Century Science and Engineering Collaboration
- 2011 **NSF Director's Award for Collaborative Integration** from National Science Foundation, for work with the Interdisciplinary Graduate Education and Research Traineeship (IGERT) Team
- 2010 **Ramon Margalef Excellence in Education Award** from American Society of Limnology and Oceanography (ASLO) for “longstanding dedication to mentoring and educating the next generation of scholars in limnology and oceanography, and particularly for her visionary development of programs for newly graduated doctoral students.”
- 2007 **Tommy and Yvette Edmondson Distinguished Service Award** from American Society of Limnology and Oceanography (ASLO) “for outstanding leadership in the professional development and mentoring of the next generation of aquatic scientists”
- 1991 **Invited Expert Witness** for U.S. Senate Commerce, Science and Transportation Committee Hearing on Global Change Research: Ozone Depletion and its Impacts, Nov. 15, 1991, Washington, D.C. Chaired by Senator Al Gore

GRANTS

- 2014-2017 **NSF** grant: ‘Collaborative Research: New Generation of Polar Researchers Leadership Symposium’
- 2009-2015 **NSF** grant: ‘Collaborative Research: DISCCRS: Interdisciplinary leadership training for early career scholars’
- 2010-2016 **NASA** grant: ‘DISCCRS: Interdisciplinary leadership training for early career scholars’
- 2006-2008 **NSF** grant: ‘Collaborative Research: Fostering collaborative, interdisciplinary work among the “New Generation” of polar researchers participating in the International Polar Year (IPY)’
- 2005-2009 **NSF** grant: ‘Collaborative Research: Fostering cross-disciplinary relationships and early-career development to advance interdisciplinary research on climate change and impacts.’
- 2003 **DoE** grant, ‘DIALOG: Fostering early career development across the aquatic sciences’
- 2002-2006 **NSF, NASA, NOAA, ONR** grants: ‘DIALOG: Fostering early career development across the aquatic sciences’ plus supplemental funding from the Inter-American Institute for Global Change Research (IAI) to support travel of participants from South America
- 2001-2003 **NOAA** grant: ‘Career 2001 – Professional society collaborations’
- 2001-2003 **NSF** grant: ‘Biocomplexity at the land-water interface: Enhancing interdisciplinary understanding and networking among recent PhD recipients’
- 2001-2004 **NSF** grant: ‘Dissertations initiative for the advancement of climate change research (DISCCRS)’
- 2001-2004 **NSF** grant: ‘Underrepresented minorities in the aquatic sciences: Establishing a database and electronic resources’
- 1999-2000 **NOAA** grant: ‘Expanding opportunities for minority graduate students and recent graduates in the aquatic sciences’
- 1997-2002 **NSF, NASA, NOAA and ONR** grants: ‘Dissertations Initiative for the Advancement of Limnology and Oceanography: DIALOG III and IV’
- 1997, 1999, 2001 **European Commission** (EC) travel awards to bring European participants to DIALOG II, III and DIALOG IV symposia (proposal written in collaboration with Maarten Boersma, Max Planck Institute für Limnology; proposal submitted by M. Boersma)
- 1996-1997 **NSF, NASA, NOAA and ONR** grants: ‘Dissertations Initiative for the Advancement of Limnology and Oceanography: DIALOG II’
- 1995 **NSF** grant: ‘Workshop on the use of slides, videos, and emerging computer technologies in undergraduate aquatic science education’

- 1994-1995 **NSF, NASA, NOAA and ONR** grants: 'Dissertations Initiative for the Advancement of Limnology and Oceanography (DIALOG)'
- 1992-1999 **ONR** grant: 'Recognition of outstanding work by aquatic science students: cooperation between the American Society of Limnology and Oceanography and the Ocean Sciences Directorate of the Office of Naval Research'
- 1992-1994 American Geophysical Union (**AGU**) small grant to edit book on Ultraviolet Radiation and Biological Research in Antarctica.
- 1991-1992 Awards from **NSF, EPA, ONR, DoE, NASA, TRW and DuPont**: 'American Society of Limnology and Oceanography Symposium on "What controls phytoplankton production in nutrient-rich areas of the open sea?"'
- 1986 **Norwegian Marshall Foundation** travel award: 'Response of the circadian timekeeper to seasonal changes in photoperiod and temperature for an Oslofjord population of the dinoflagellate genus *Ceratium*'
- 1984-1987 **NSF** grant: 'Vertical distribution of abundance and growth for *Ceratium* species in oligotrophic, open-ocean environments'
- 1980-1981 **North Atlantic Treaty Organization** Postdoctoral Fellowship award: 'Temporal pattern of cell division and dinoflagellate growth dynamics in the Oslofjord, Norway'

OCEANOGRAPHIC RESEARCH CRUISE EXPERIENCE:

SARGASSO SEA Cruise, University of Maryland: Ten-day transect from Beaufort, North Carolina to Bermuda, June 1987, aboard R/V CAPE HATTARAS

VERTEX V Cruise, UCSC/WHOI: Three-week transect from California coast to central North Pacific, June 1984, aboard R/V T.G. THOMPSON

North Pacific Central Gyre Cruise: Three-week transect from Hawaii to California, September 1976, aboard R/V ALEXANDER AGASSIZ

Southern California Bight Microstratification cruise, SIO-Bureau of Commercial Fisheries, March 1976 aboard NOAA R/V DAVID STARR JORDAN

Southern California Bight Survey Cruises (SCBS V, VII, IX), Food Chain Research Group, 1975-1977 aboard R/V ELLEN B. SCRIPPS and R/V ALEXANDER AGASSIZ

California Cooperative Fisheries Investigation cruise: Three weeks along California coast, March 1975, aboard NOAA R/V DAVID STARR JORDAN

SCIENTIFIC SOCIETIES: ELECTED AND APPOINTED POSITIONS

Sigma Xi, The Scientific Research Society Member since 1976

National

- 2003-2006 **Member**, Committee on Strategic Planning (appointed)
- 2001-2004 **Chair**, Committee on Resolutions (appointed)
- Review Committee Member**, Grants in Aid of Research Program
- 1999-2000 **Interim Director**, Baccalaureate College Constituency Group (appointed)
- 1991-1999 **Member**, Sigma Xi Board of Directors (elected)

Regional Northwest Region

- 1991-1999 **Northwest Regional Director** (elected)
- 1990-1993 **Nominating Committee**, Northwest Region (elected)
- 1989-1991 **Inland Northwest Area Coordinator** (elected)

Local Whitman College – Walla Walla College Chapter 519

- 2019-Present **President**
- 1998-2003 **President**
- 1989-1993 **President**
- 1988-1989 **President Elect**
- 1984-1985 **Secretary**

American Geophysical Union

- 2014-2015 **Chair**, Task Force for Transdisciplinary Science Conference.
2013-2015 **Member**, AGU Meetings Committee
2008-2009 **Liaison**, between AGU and the Antarctic Treaty Summit Board of Directors
2002-2004 **Member**, Excellence in Geophysical Education Award Committee
2000-2002 **Chair**, History of Geophysics Committee
1999-2000 **Member**, Survey Effectiveness and Analysis Team
1990-1999 **Member**, Organizing Committee for AGU/ASLO joint Ocean Sciences Meeting

American Institute of Physics

- 2005-2007 **Chair**, Statistical Research Center Advisory Committee
2003-2005 **Chair**, Statistical Research Center Advisory Committee
2000-2003 **Member**, Statistical Research Center Advisory Committee

The Oceanography Society Member 1990 - 2008

- 1989-1991 **Associate Editor** (Biology), *Oceanography*

COMMUNITY SERVICE

- 2017 **Invited Mentor**: National Academies of Science, Engineering and Medicine Gulf Research Fellows Orientation Meeting, held October 30, 2017, The National Academies, Washington, DC.
- 2014 **Co-Organizer**, with Adina Payton: Informal get-together with more than 50 graduate students and early career researchers participating in the first Gordon Research Conference on Ocean Global Change Biology, held July 6-11, 2014, Waterville Valley Resort, Waterville Valley, NH.
- 2013 **Invited Speaker**, Weiler, C.S. Strategies for success in interdisciplinary research collaborations. ESA Workshop, “Next Generation Ecologists in Global Change Research: Current Status and Future Directions”. I also served as a panelist for a session of this workshop, Workshop held in conjunction with the Ecological Society of America Annual Meeting, August 4, 2013, Minneapolis, Minnesota
- 2011 **Co-Convener**, four sessions on “Impacts of Over a Decade of CAREER Awards” S. Esperanca (NSF), C.S. Weiler (NSF) and E.L. Rom (NSF). AGU Fall Meeting, Dec. 5-9, 2011, San Francisco, California
- 2000-2007 **Various early career activities** in conjunction with ASLO meetings. Also service as mentor for underrepresented minorities attending ASLO/Hampton University workshops organized by Dr. Benjamin Cuker and for the MS PHD program organized by Dr. Ashanti Pyrtle
- 2006 **Co-Convener**, three sessions on “The Right Stuff: Graduate and Postgraduate Training for Interdisciplinary Research Careers.” Weiler, C.S., S.B. Cook (Consortium for Oceanographic Research and Education and L.E. Duguay (University of Southern California), Ocean Sciences Meeting 20-24 February, 2006, Honolulu, Hawaii
- 2006 **Organizer**, evening session on Interdisciplinary graduate education, 2006 AGU Ocean Sciences Meeting, Honolulu, Hawaii
- 2000 **Workshop Organizer**. Enhancing participation of underrepresented minority graduate students in the Aquatic Sciences. Held in conjunction with the annual meeting of the American Society of Limnology and Oceanography, June 5-9, 2000, Copenhagen, Denmark
- 1996 **Workshop Organizer**, “Illustrative Materials and Exercises for Aquatic and Marine Science Education.” ASLO Annual Meeting, June 15, 1996. Milwaukee, Wisconsin
- 1995 **Workshop Organizer**, “Use of Emerging Computer Technologies in Undergraduate Aquatic Science Courses.” ASLO Annual Meeting, June 11, 1995, Reno, Nevada

- 1995 **Co-Convener**, Special Session on "Ultraviolet Radiation Effects on Marine and Freshwater Organisms and Environments" (with David Lean), ASLO 1995 Annual Meeting, June 11-15, Reno, Nevada
- 1995 **Participant**, Workshop on "Roles of Marine Laboratories in Implementing the Nation's Emerging Priorities for Research and Monitoring in the Coastal Zone", 24-27 October, 1995, Sarasota, FL
- 1994 **Participant**, SCOPE, IASC (International Arctic Science Committee), KVUG (Commission for Scientific Research in Greenland) Workshop on "Effects of Increased UV-Radiation in the Arctic", April 14-15, 1994, Copenhagen, Denmark.
- 1993 **Participant**, NATO Advanced research workshop on "Ozone Depletion/UV-B Radiation in the Biosphere", June 12-18, 1993, Gainesville, Florida.
- 1993 **Participant**, Workshop on "The impact of UV-B Radiation on Pelagic Freshwater Ecosystems", September 13-18, 1993, Lake Lacawac, Pennsylvania.
- 1992 **Co-Convener**, Special Session entitled "UV Radiation" (with K.S. Baker), ASLO 92 Aquatic Sciences Meeting, Feb. 9-14, 1992, Santa Fe, New Mexico
- 1992 **Participant**, United Nations Environmental Program's Scientific Committee on Problems of the Environment (SCOPE) workshop on "Effects of Increased UV Radiation on Aquatic and Terrestrial Ecosystems", September 28 - October 3, 1992, Sardinia, Italy.
- 1992 **Participant**, United Nations Environmental Program's Scientific Committee on Problems of the Environment (SCOPE) workshop on "Environmental Effects of Ozone Depletion on Biological Systems", February 17-22, 1992, Budapest, Hungary.
- 1991 **Participant**, U.S. Department of Agriculture workshop "Justification and Criteria for the Monitoring of Ultraviolet (UV) Radiation", January 22-25, 1991, Denver, Colorado.
- 1990 **Co-Convener**, two special sessions entitled "Effects of Ultraviolet Radiation on the Marine Environment" (with J. J. Cullen), joint AGU/ASLO Ocean Sciences Meeting, Feb. 12-16, 1990, New Orleans, Louisiana
- 1990 **Participant**, Chemical Manufacturers Association Fluorocarbon Panel and SIO Polar Research Program workshop on "Response of Marine Phytoplankton to Natural Variations in UV-B Flux", April 5, 1990, San Diego, California.
- 1990 **Participant**, National Research Council (NRC) workshop, "Marine Algal Productivity and Carbon Dioxide Assimilation." Oct. 29-31, 1990, Irvine, California.
- 1989 **Participant**, "Rethinking the Curriculum [for interdisciplinary study]". June 19-23, 1989, San Diego, CA.
- 1988 **Participant**, Marine Mammal Commission workshop, "Palmer Station Biological Program". The goal of the workshop was to "Describe the Biological Research Program and Possible Impacts from Activities in the Area to Serve as a Basis for Development of a Provisional Research/Management Plan". Nov. 3-4, 1988, Santa Barbara, California

FEDERAL AGENCY SERVICE *in addition to ad hoc proposal review (ongoing)*

- 2019 **Panel Reviewer**, NSF Geosciences Directorate
- 2013 **Reviewer**, CAREER Proposals submitted to AGS Climate and Large-Scale Dynamics program
- 2008 Review Panel Member, Site visit, NSF Center for Multi-Scale Modeling of Atmospheric Processes (CMMAP), Colorado State University. May 15-16, 2008.
- 2007 **Panel Reviewer**, NSF Integrative Graduate Education and Research Traineeship (IGERT) Program. Panel meeting December 5 – 6, 2007.
- 2005 **Steering Committee Member**, NSF 2005 Biocomplexity in the Environment Awardees Meeting
- 2004 **Panel Reviewer**, NSF Office of Polar Programs Postdoctoral Fellowship Award Proposal Review, Arlington, VA
- 1998 **Evaluation Committee Member**, NSF Program for Participation of Women in Research and Education (POWRE). Washington, D.C.

- 1996 **Panel Reviewer**, NSF Special Emphasis Panel for the Division of Biological Instrumentation and Resources (Postdoctoral Research Fellowships in Biosciences Related to the Environment). Washington, D.C.
- 1995 **Invited Participant**, NSF Conference on Women in Science, December 13 - 15, 1995, Washington, D.C.
- 1995 **Panel Reviewer**, NSF Special Emphasis Panel for the Division of Biological Instrumentation and Resources (Postdoctoral Research Fellowships in Biosciences Related to the Environment) Washington, DC
- 1995 **Panel Reviewer**, IAI Start-Up Grants, November, 1995, Montevideo, Uruguay
- 1990 **Review Panel Member**, NSF Visiting Professorships for Women Program, May 27-28, 1990, Washington, DC.
- 1990 **Participant**, National Research Council (NRC) workshop, "Marine Algal Productivity and Carbon Dioxide Assimilation." Oct. 29-31, 1990, Irvine, California.
- 1989 **Invited Participant**, EPA/ONR workshop, "Effects of Solar Ultraviolet Radiation on Biogeochemical Dynamics in Aquatic Environments". October 22-26, 1989, Woods Hole, Massachusetts.
- 1988 **NSF Observer**, National Research Council (NRC) Workshop, "The Effects of an Increase in Ultraviolet Radiation on the Biota". April 28 - 29, 1988, Washington, D.C.
- 1988 **Convener**, joint NSF/EPA workshop, "Ultraviolet Radiation and Biological Research in Antarctica". June 7-8, 1988, Washington, D.C.

PUBLIC WEBPAGES

- 2002-present **DISCCRS initiative for recent climate-change PhD.s.** <http://disccrs.org>
- 2003-2005 **Meeting the Needs of Recent Ph.D. Graduates in a Changing Global Environment**
<http://disccrs.org/biocomplexity>

PUBLICATIONS

- Hein, C., J. Ten Hoeve, S. Gopalakrishnan, B. Livneh, H. Adams E. Marino and C.S. Weiler. 2018. Overcoming early career barriers to interdisciplinary climate change research. *WIREs Climate Change*. DOI: 10.1002/wcc.530 <https://doi.org/10.1002/wcc.530>
- Milman, A., J.M. Marston, S.E. Godsey, J. Bolson, H.P. Jones and C.S. Weiler. 2015. Scholarly motivations to conduct interdisciplinary climate change research. *Journal of Environmental Studies and Sciences*. DOI: 10.1007/s13412-015-3007-z.
- Weiler, C.S. and R.B. Mitchell. 2014 Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS): DISCCRS VIII Symposium Report.
http://disccrs.org/files/DISCCRS_VIII_Symposium_Report.pdf
- Weiler, C.S. and R.B. Mitchell. 2013. Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS): DISCCRS VII Program Report.
http://disccrs.org/files/DISCCRS_VIII_Program_Report.pdf
- Weiler, C.S., R.B. Mitchell and J.R. Marlon, 2012. Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS): DISCCRS VII Symposium Report.
http://disccrs.org/files/DISCCRS_VII_Symposium_Report.pdf
- Weiler, C.S., R.B. Mitchell and J.R. Marlon, 2012. Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS): DISCCRS VII Program Report.
http://disccrs.org/files/DISCCRS_VII_Program_Report.pdf
- National Science Foundation. 2012. Balancing the Scale: The National Science Foundation CLB Initiative. NSF Family Friendly Policies Working Group. Arlington, VA. C. S. Weiler was one of six members of the Family Friendly Policies Working Group and co-authored the report.
- Weiler, C. S., J. Keller and C. Olex. 2011. Personality type differences between Ph.D. climate researchers and the general public: Implications for effective communication. *Climatic Change* 112(2):233-242. DOI 10.1007/s10584-011-0205-7.

- http://discrs.org/files/WeilerEtAl_2011_ClimaticChange_MBTI.pdf
- Mitchell, R.B. and C.S. Weiler. 2011. Developing next-generation climate-change scholars: The DISCCRS experience. *J. Environmental Studies and Sciences* 1:54-62. <http://discrs.org/files/2011-JournalEnvironmentalStudiesSciences.pdf>
- Berkman, P.A., D.W.H. Walton and C.S. Weiler, 2008. Antarctic Treaty Summit to focus on global science policy lessons. *Eos* 89(42):406.
- Wardell, L., C.S. Weiler, S. Drobot and J. Baeseman. 2008. Preparing new polar researchers to lead the next International Polar Year. *Eos*. 89(33):305.
http://www.apecs.is/images/stories/ngpr/documents/ngpr_eos_2008.pdf
- Weiler, C.S., S.D. Drobot and J. Baeseman, 2008. Final Report, New Generation of Polar Researcher Symposium. <http://apecs.is/images/stories/ngpr/documents/ipy-ngpr-report.pdf>
- Weiler, C.S. 2007. Meeting Ph.D. graduates' needs in a changing global environment. *Eos* 88(13):149,151.
http://discrs.org/sites/default/files/Weiler_Eos_2007.pdf
- Weiler, C.S. 2005. The Right Stuff: Preparing Ph.D. graduates for the challenges posed by complex environmental systems. *L&O Bulletin* 14(2):47-48.
- Weiler, C.S. 2004. Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS). Program Report. <http://people.whitman.edu/~weilercs/biocomplexity/>
- Weiler, C.S. 2003. Meeting the Needs of Interdisciplinary Ph.D. Graduates in a Changing Global Environment. Workshop Report.
<http://discrs.org/files/biocomplexity/BiocomplexityWorkshopReport.pdf> and webpage:
<http://discrs.org/files/biocomplexity/index.html>
- Weiler, C.S. 2003. DIALOG: Easing the transition from student to professional. *L&O Bulletin* 12(4):84-85 and http://discrs.org/files/Weiler_2003_L&O.pdf
- Weiler, C.S. 2002. DIALOG IV Program Report. *L&O Bulletin* 11(1):22-25.
- Weiler, C.S. 2002. Advice to students wishing to pursue aquatic science careers: Reflections of DIALOG symposium participants. <http://discrs.org/files/advice.pdf>
- Weiler, C.S. 2001. DIALOG IV Symposium report: What's up with this new generation of aquatic scientists? *L&O Bulletin* 10(4):72-73 <http://discrs.org/files/d4sympreport.pdf>
- Weiler, C.S. 2001. Minorities in the aquatic sciences (MAS): Establishing a database and electronic resources. *L&O Bulletin* 10(3):54-55.
- Weiler, C.S., S.E. Beaulieu and other DIALOG III participants. 2000. Perspectives on graduate education experiences in aquatic science. *ASLO Bulletin* 9(2):20-22 and
<http://discrs.org/sites/default/files/gradperspective.pdf>
- Weiler, C.S. 2000. Dissertation Initiative for the Advancement of Limnology and Oceanography: DIALOG III Program report. *ASLO Bulletin* 9(2):6-10.
- Weiler, C.S. 1997. DIALOG II: Dissertation initiative for the Advancement of Limnology and Oceanography: DIALOG II Program Report. *ASLO Bulletin* 6(2):10-14.
- Weiler, C.S. 1995. 1994 DIALOG Symposium Report. *ASLO Bulletin* 4(1):10-12.
- Weiler, C.S. 1995. Dissertations Initiative for the Advancement of Limnology and Oceanography (DIALOG): 1994 Program Summary. *ASLO Bulletin* 4(1):6-10.
- Weiler, C.S. 1995. 1994 DIALOG Symposium Report. *ASLO Bulletin* 4(1):10-12.
- Weiler, C.S. 1995. Dissertations Initiative for the Advancement of Limnology and Oceanography (DIALOG): 1994 Program Summary. *ASLO Bulletin* 4(1):6-10.
- Karentz, D., M.L. Bothwell, R.B. Coffin, A. Hanson, G.J. Herndl, S.S. Kilham, M.P. Lesser, M. Lindell, R.E. Moeller, D.P. Morris, P.J. Neale, R.W. Sanders, C.S. Weiler and R.G. Wetzel. 1994. Impact of UVB radiation on pelagic freshwater ecosystems: Report of Working Group on Bacteria and Phytoplankton. *Arch. Hydrobiol.* 43:31-69.
- Weiler, C.S. and P.A. Penhale (editors), 1994. ULTRAVIOLET RADIATION IN ANTARCTICA: MEASUREMENTS AND BIOLOGICAL EFFECTS. American Geophysical Union Antarctic Research Series Vol. 62, 257 pp.
- Booth, C.R., T.B. Lucas, J. Morrow, C.S. Weiler, and P.A. Penhale, 1994. The United States National Science Foundation's polar network for monitoring ultraviolet radiation. Pp. 17-38 in (C.S. Weiler and

- P.A. Penhale, eds.), ULTRAVIOLET RADIATION IN ANTARCTICA: MEASUREMENTS AND BIOLOGICAL EFFECTS. American Geophysical Union Antarctic Research Series Vol. 62.
- Weiler, C.S., 1992. Effects of ozone-related increases in UV-B radiation on marine phytoplankton. Pp. 16 - 21 in, Global Change Research: Ozone Depletion and its Impacts, Hearing Before the Committee on Commerce, Science and Transportation, United States Senate. U.S. Government Printing Office No. 54-831cc, 88 pp.
- Weiler, C.S. and P.H. Yancey, 1992. Dual-career couples and academic science. *Journal of College Science Teaching* 21(4):217-222. (Invited by Editor based on his reading of Weiler & Yancey 1989) <http://discrs.org/files/Dual-Career.pdf>
- Weiler, C.S. 1991. What controls phytoplankton production in nutrient-rich areas of the open sea? Report from a workshop held February 22-23, 1991, San Marcos, California. American Society of Limnology and Oceanography. 17 pp.
- Weiler, C.S., W.M. Balch, S.W. Chisholm, J.J. Cullen, W.G. Harrison, P.A. Matrai, J.J. McCarthy, J.R. Nelson, M.J. Perry, D.G. Radalje, J.H. Sharp and M.M. Sinclair, 1990. Richard W. Eppley's contributions to phytoplankton physiology and biological oceanography. *Oceanography* 3(2):42-46.
- Weiler, C.S. and P.H. Yancey, 1989. Dual-career couples and science: Opportunities, challenges, and strategies. *Oceanography* 2(2):28-31,64.
- Weiler, C.S. (editor), 1988. Workshop on Ultraviolet Radiation and Biological Research in Antarctica. National Science Foundation, NSF 88-108, 28 pp.
- Weiler, C.S., 1988. UV radiation and biological research in Antarctica. *Biomass* 10(1):4.
- Quetin, L.B., R.M. Ross, W. Detrich, W. Fraser, R. Moe, B. Obst, and S. Weiler, 1988. Description of the Biological Research Program in the vicinity of Palmer Station, Antarctica and possible impacts on the program from activities in the area to serve as a basis for the development of a provisional research / management plan for the Palmer area. Workshop Report, Marine Mammal Commission. 67 pp.
- Booth, C.R., C.S. Weiler, and P.A. Penhale, 1988. Collection and distribution of data from the United States Antarctic Program's UV monitoring network. Pp. 23-24 in, Workshop on Ultraviolet Radiation and Biological Research in Antarctica (C.S. Weiler, ed.). National Science Foundation, 28 pp.
- Adams, K.J., C.S. Weiler, and L.N. Edmunds Jr., 1984. Photoperiodic control of cell division in *Euglena* and *Ceratium*. Pp 395-430 in, L.N. Edmunds Jr. (ed.) CELL CYCLE CLOCKS. M. Dekker, Inc. 616 pp.
- Weiler, C.S., 1980. Population structure and in situ division rates of *Ceratium* in oligotrophic waters of the North Pacific central gyre. *Limnol. Oceanogr.* 25:610-619.
- Weiler, C.S. and D.M. Karl, 1979. Diurnal changes in phased-dividing cultures of the marine dinoflagellate *Ceratium furca*: Nucleotide triphosphates, adenylate energy charge, cell carbon, and patterns of vertical migration. *J. Phycology* 315:384-391.
- Eppley, R.W. and C.S. Weiler, 1979. The dominance of nanoplankton as an indicator of marine pollution: A critique. *Oceanologica Acta* 2:241-245.
- Weiler, C.S. and R.W. Eppley, 1979. Temporal pattern of division in the dinoflagellate genus *Ceratium* and its application to the determination of growth rate. *J. Exp. Mar. Biol. Ecol.* 39:1-24.
- Weiler, C.S., 1978. Phased cell division in the dinoflagellate genus *Ceratium*: Temporal pattern, use in determining growth rates, and ecological implications. Ph.D. thesis, University of California, San Diego. 126 pp.
- Weiler, C.S. and S.W. Chisholm, 1976. Phased cell division in natural populations of marine dinoflagellates from shipboard cultures. *J. Exp. Mar. Biol. Ecol.* 25:239-247.

PRESENTED PAPERS (Oral and poster)

- Weiler, C.S. (invited). 2019. Collaborative Research: Using the DISCCRS model to prepare a new generation of Interdisciplinary, International, Inclusive Researchers. AMS Annual Meeting, January 6-10, 2019, Phoenix, AZ.
- Weiler, C.S. 2014. Launching successful research careers into a sea of change. Gordon Research Conference on Ocean Global Change Biology, July 6-11, 2014, Waterville Valley Resort, Waterville Valley, NH. Poster.

- Weiler, C.S. (invited). 2013. Strategies for success in interdisciplinary research collaborations. ESA Workshop, "Next Generation Ecologists in Global Change Research: Current Status and Future Directions" held in conjunction with the Ecological Society of America Annual Meeting, August 4, 2013, Minneapolis, MN.
- Patino, L., E. Rom and S. Weiler. 2011. An Analysis of NSF Geosciences Research Experience for Undergraduate Site Programs from 2009 through 2011. Poster, AGU Fall Meeting, December 5-9, 2011, San Francisco, CA.
- Weiler, C.S. 2010. Facilitator, break-out sessions on interdisciplinary training, Human and Social Dynamics 2010 Grantees Conference, September 27-28, Arlington, VA.
- Karsten, J.L., L. Patino, E.L. Rom and C.S. Weiler. 2010. Advancing Earth system science literacy and preparing the future geoscience workforce through strategic investments at the National Science Foundation. AGU Fall Meeting, December 12-17, 2010, San Francisco, CA.
- Weiler, C.S. 2010. Presenter and Panelist, Workshop on Proposal Planning for Early Career Scientists. AGU Fall Meeting, December 12-17, 2010, San Francisco, CA.
- Weiler, C.S. 2010. The NSF Geosciences Directorate. Presentation at NSF Day, February 24, 2010, Fort Valley State University, Macon, GA.
- Weiler, C.S. 2009. Presenter and Panelist, Workshop on Proposal Planning for Early Career Scientists. AGU Fall Meeting, December 14-18, 2009, San Francisco, CA.
- Sanchez, S., L. Patino, E. Rom and S. Weiler. 2009. An analysis of NSF Geosciences 2009 Research Experience for Undergraduate Site Programs. Poster presentation, AGU Fall Meeting, December 14-18, 2009, San Francisco, CA.
- Marlon, J.R., R. B. Mitchell and C.S. Weiler. 2009. Trends in doctoral research on climate change and the need for interdisciplinary. Poster, AGU Fall Meeting, December 14-18, 2009, San Francisco, CA.
- Drobot, S.D. and C.S. Weiler. 2008. Training the new generation of polar researchers. AGU fall meeting, December 17, San Francisco, CA. Poster.
- Weiler, C.S. and S.D. Drobot. 2008. Promoting graduate and post-graduate collaboration during the IPY, University of the Arctic Council Meeting, June 2-5, 2008, Edmonton, AB Canada.
- Weiler, C.S. 2008. DISCCRS: Preparing early career scientists to collaboratively explore interdisciplinary research frontiers. National Science Foundation, public presentation, September 5, 2008, Washington, DC.
- Weiler, C.S. 2008. Building successful collaborations: Lessons learned while preparing graduates for the study of complex environmental systems. National Science Foundation, public presentation, April 11, 2008, Washington, DC.
- Weiler, C.S. (Invited) 2007. Earth System Science: The Ultimate Team Sport. Acceptance Speech, ASLO Distinguished Service Award. Plenary session, ASLO Aquatic Sciences Meeting, February 5 – 9, 2007, Santa Fe, NM.
- Weiler, C.S. 2006: What Recent Ph.D.s Want: Strategies for Building Successful Interdisciplinary Careers. <http://www.disccrs.org/career.html/weiler.ppt>. AGU/ASLO/TOS Ocean Sciences Meeting, February 20-24, 2006, Honolulu, HI. Also co-organized the session in which this oral presentation was given. Two oral sessions and one poster session were allotted to this topic.
- Weiler, C.S. 2005. The Right Stuff: Preparing new professionals to meet the challenges of a changing world. Poster, NSF Biocomplexity PI Meeting, March 21-23, 2005, Arlington, VA. Also on the Steering Committee to develop the agenda and invited speakers for this meeting.
- Weiler, C.S. 2005. DIALOG: An Initiative to Foster Interdisciplinary Understanding and Peer Networking among Recent Ph.D. Graduates. ASLO Aquatic Sciences Meeting, February 21 – 25, 2005, Salt Lake City, UT.
- Shipe, R., M. Graham and C.S. Weiler, 2004. Workshop: Landing the Right Job: Applications to Interviews. ASLO/TOS Ocean Research Conference, Feb. 15-20, 2004, Honolulu, HI.
- Graham, M. and C.S. Weiler, 2004. Workshop: Proposal Development Strategies for New PI's. ASLO/TOS Ocean Research Conference, Feb. 15-20, 2004, Honolulu, HI.
- Weiler, C.S. 2004. A Capstone Program to Foster Interdisciplinary Understanding and Peer Networking among Recent PhD Recipients. Joint ASLO/TOS Ocean Research Meeting. Jan. 2004, Honolulu, HI. Poster.

- Weiler, C.S. and Evens, T.J. (invited) 2003. DIALOG: Dissertations Initiative for the Advancement of Limnology and Oceanography. Phycological Society of America (PSA) Annual Meeting, June 14-19, 2003, Salishan, OR.
- Weiler, C.S. 2003. Biocomplexity LWI/CC Workshop: Designing a Capstone Experience for Recent Ph.D. Recipients Embarking on Interdisciplinary Careers. Biocomplexity in the Environment PI Workshop, September 14-17, 2003, Washington, D.C.
- Weiler, C.S. 2002. Biocomplexity at the Land-Water Interface: Enhancing Interdisciplinary Understanding and Peer Networking among Recent Ph.D. Graduates. Biocomplexity in the Environment PI Workshop, April 13-16, 2002, Washington, D.C.
- Weiler, C.S. 2001. Minorities in the Aquatic Sciences: Establishing a Database and Electronic Resources. American Geophysical Union Spring Meeting, May 29-June 2, 2001, Washington, D.C.
- Weiler, C.S. 2001. DIALOG: An Interdisciplinary Program for Recent Ph.D. Recipients. ASLO Aquatic Sciences Meeting, Feb. 12-16, 2001, Albuquerque, NM.
- Weiler, C.S. 1995. Transition from Graduate School to the Workforce: Case Study of 40 Recent Ph.D. Recipients. Poster, NSF Conference on Women in Science, December 13 - 15, 1995, Washington, DC.
- Weiler, C.S., 1993. UV-B effects on aquatic organisms and ecosystems: A summary of recommendations from a selection of UV workshop reports. Workshop, "The impact of UV-B radiation on pelagic freshwater ecosystems", September 13-18, 1993, Lake Lacawac, PA.
- Weiler, C.S. 1992 (Invited). United States of America's Antarctic Program: UV-B Assessment Efforts. United Nations Environmental Program's Scientific Committee on Problems of the Environment (SCOPE) workshop on "Environmental Effects of Ozone Depletion on Biological Systems", Budapest, Hungary, Feb. 17-22, 1992.
- Weiler, C.S., 1991 (Invited) Effects of Ozone-Related Increases in UV-B Radiation on Marine Phytoplankton", Testimony, U.S. Senate Committee on Commerce, Science and Transportation hearing on "Global Change Research: Ozone Depletion and its Impacts.", Nov. 15, 1991, Washington, DC.
- Weiler, C.S., 1991 (Invited) United States Antarctic Program's UV-B Measurement Program. National Research Initiative Competitive Grants Program, U.S. Department of Agriculture and Natural Resources Ecology Laboratory Workshop. Jan. 22-25, 1991, Denver, CO.
- Lucas, T.B., C.R. Booth, D.S. Neuschuler, J. Yeh, P. Penhale and S. Weiler, 1990. The National Science Foundation's Ultraviolet Radiation Monitoring Network. Joint AGU/ASLO Ocean Sciences meeting, New Orleans, LA. Poster.
- Voytek, M.A. and C.S. Weiler, 1988. Addressing the biological effects of decreased ozone on the Antarctic environment. Joint AGU/ASLO meeting, San Francisco, CA. Poster
- Weiler, C.S., P.A. Penhale, G.W. Harris and C.R. Booth, 1988. The United States Antarctic Program's monitoring system for ultraviolet radiation. Fifth Annual Scientific Committee on Antarctic Research (SCAR) Symposium on Antarctic Biology, Hobart, Tasmania, Australia. Poster.
- Weiler, C.S., 1984 (Invited). Seasonal changes in growth rates and the timing of division for Oslofjord populations of *Ceratium furca*. Fall meeting, ASLO, San Francisco, CA.
- Weiler, C.S., 1984. Phased cell division of *Ceratium furca* in the Oslofjord, Norway: What sets the clock?' Joint AGU/ASLO meeting, New Orleans, LA.
- Weiler, C.S., 1980 (invited). Selective pressures and the evolution of form in the dinoflagellate genus *Ceratium*. NATO advanced studies Inst. Summer school on phytoplankton ecology, Lipari, Italy.
- Weiler, C.S., 1978. The timing and duration of division stages in phased cultures of the dinoflagellate genus *Ceratium*: Applications to specific-growth-rate measurements in the ocean. 41st annual meeting, American Society of Limnology and Oceanography, Victoria, B.C., Canada.
- Weiler, C.S., 1977. Timing of nuclear and cellular division in phased natural populations of the dinoflagellate genus *Ceratium*. IXth International seaweed symposium, Santa Barbara, CA.
- Weiler, C.S., 1977. In situ growth rates and species composition for the dinoflagellate genus *Ceratium* in the North Pacific Ocean and Santa Monica Bay, California. Annual meeting, Pacific section AAAS, San Francisco, CA.

Workshops organized by C.S. Weiler

What Controls Phytoplankton Production in Nutrient-Rich Areas of the Open Sea?

February 22-23, 1991, San Marcos, California. This first public workshop on iron fertilization brought together 150 researchers from the U.S. and abroad to debate the science and ethics. See *Limnology and Oceanography*, 1991. Volume 36(8):1507-1970 and Weiler, C.S. 1991. What controls phytoplankton production in nutrient-rich areas of the open sea? Report from a workshop held February 22-23, 1991, San Marcos, California. American Society of Limnology and Oceanography. 17 pp.

UV Radiation and Biological Research in Antarctica

June 7-8, 1988, National Science Foundation, Washington, D.C. See Weiler, C.S. and P.A. Penhale (editors), 1994. ULTRAVIOLET RADIATION IN ANTARCTICA: MEASUREMENTS AND BIOLOGICAL EFFECTS. *American Geophysical Union Antarctic Research Series* Vol. 62, 257 pp.

Early Career Leadership SYMPOSIA organized by C.S. Weiler

The DIALOG and DISCCRS Symposia were designed to foster international, interdisciplinary research and collegial networks among recent Ph.D. graduates (6 months – 3 years post Ph.D.) DIALOG brought together aquatic scientists, while DISCCRS brings together researchers interested in any aspect of climate change research across the physical, biological/ecological and social sciences, mathematics and engineering. A competitive application process selected for interdisciplinary interests and research/leadership potential. Symposium alums include citizens of 49 countries.

NGPR – L	New Generation of Polar Researchers Leadership Symposium May 2-9 2015, USC Wrigley-Boone Center for Environmental Leadership, CA with Karla Heidelberg
DISCCRS VIII	Dissertations Initiative for the Advancement of Climate Change Research October 12-19, 2013, La Foret Conference Center, CO with Ronald B. Mitchell
DISCCRS VII	Dissertations Initiative for the Advancement of Climate Change Research October 13-20, 2012, La Foret Conference Center, CO with Ronald B. Mitchell
DISCCRS VI	October 22-29, 2011. La Foret Conference Center, CO with Ronald B. Mitchell http://discrs.org/files/DISCCRS_VI_Symposium_Report.pdf
DISCCRS V	March 13-20, 2009. Saguaro Lake Ranch, AZ with Ronald B. Mitchell http://discrs.org/files/DISCCRS_V_Symposium_Report.pdf
DISCCRS IV	November 2-9, 2008. Saguaro Lake Ranch, AZ with Ronald B. Mitchell http://discrs.org/files/DISCCRS_IV_Symposium_Report.pdf
IPY NGPR	IPY New Generation of Polar Researchers May 4-12, 2008, La Foret Conference Ce., CO with Sheldon R. Drobot http://apecs.is/images/stories/ngpr/documents/ipy-ngpr-report.pdf Final Report http://www.apecs.is/apecs-meetings-a-events/past-events/ngpr-2008 Webpage
DISCCRS III	September 10-17, 2007. Kilauea Military Camp, HI with Ronald B. Mitchell http://discrs.org/files/DISCCRS_III_Symposium_Report.pdf
DISCCRS II	March 26-April 2, 2003. Asilomar Conference Center, CA with Ronald B. Mitchell http://discrs.org/files/DISCCRS_II_Symposium_Report.pdf
DISCCRS I	March 10-15, 2003. Copamarina Resort, Guanica, Puerto Rico http://discrs.org/files/DISCCRS_I_Symposium_Article.pdf
DIALOG VII	Dissertations Initiative for the Advancement of Limnology and Oceanography December 3-10, 2005. Dauphin Island Sea Lab with Monty Graham
DIALOG VI	October 30-November 6, 2004. Dauphin Island Sea Lab with Monty Graham
DIALOG V	October 19-25, 2003. Bermuda Biological Station for Research
Biocomplexity Workshop: Designing a Capstone Experience for Recent PhDs Embarking on Interdisciplinary Careers	October 3-6, 2003. Wrigley Marine Science Center, Catalina Island, CA with R. B. Mitchell and A. F. Michaels http://discrs.org/files/biocomplexity/index.html
DIACES	Dissertations Initiative for the Advancement of Coastal and Estuarine Sciences, October 28-November 4, 2002. Copamarina Resort, Guanica, Puerto Rico
DIALOG IV	October 14-19, 2001. Bermuda Biological Station for Research with Maartin Boersma
DIALOG III	October 16-23, 1999. Bermuda Biological Station for Research with Maartin Boersma
DIALOG II	October 12-17, 1997. Bermuda Biological Station for Research with Maartin Boersma
DIALOG I	December 13-17, 1994. Bermuda Biological Station for Research