

Deborah K. Steinberg
Curriculum Vitae

CONTACT INFORMATION

Name: Deborah Kay Steinberg Date: 9 November, 2016
Telephone: (804) 684-7838 Fax: (804) 684-7293 e-mail: debbies@vims.edu

EDUCATION

1993 Ph.D., University of California, Santa Cruz (UCSC). Department of Biological Sciences.

1987 B.A., University of California, Santa Barbara (UCSB). Aquatic Biology (High Honors).

ACADEMIC POSITIONS

2014 CSX Professor of Marine Science, The College of William and Mary School of Marine Science and Department of Biological Sciences, Virginia Institute of Marine Science (VIMS).

2008 Professor, The College of William and Mary School of Marine Science and Department of Biological Sciences, VIMS.

2001 Associate Professor, VIMS. (College of William and Mary Class of 1964 Distinguished Associate Professor 2005-2007)

2001 Adjunct Faculty, Bermuda Institute of Ocean Sciences (BIOS- formerly Bermuda Biological Station for Research-BBSR)

1999 Associate Research Scientist, Bermuda Institute of Ocean Sciences (BIOS)

1995 Assistant Research Scientist, BIOS.

1994 Post-doctoral Research Fellow, Marine Sciences Department, UCSC. Advisor: Professor M. Silver

1994 Lecturer, Marine Sciences Department, UCSC.

HONORS, PRIZES AND AWARDS

2015 State Council of Higher Education for Virginia (SCHEV) Outstanding Faculty Award

2014 CSX Eminent Scholar Professorship/ Chair

2014 William & Mary Plumeri Award for Faculty Excellence

2013 William & Mary Tack Faculty lecture

2012 Sverdrup Award lecture, Ocean Sciences, American Geophysical Union (AGU)

2011 Elected to the governing council of The Oceanography Society (TOS)

2007 Winner of William & Mary Raft Debate

2006 Dean's Prize (VIMS) for the Advancement of Women in Marine Science

2005 College of William and Mary Class of 1964 Distinguished Professor Award

2005 Elected to the Board of Trustees, Bermuda Institute of Ocean Sciences

2001 Elected Secretary, Ocean Sciences section, American Geophysical Union (AGU) (term was 2002-2006)

1987 Antarctic Service Award and Medal, U.S. Department of the Navy

CONTRIBUTIONS TO THE EDUCATIONAL PROGRAM

Courses taught (VIMS)

2016 MS 401D “Fundamentals of Marine Science-Biological Oceanography”, 3.0 cr., Fall, 7 students

2016 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 2.0 cr., Fall, 13 students

2015 MS 401D “Fundamentals of Marine Science-Biological Oceanography”, 3.0 cr., Fall, 8 students

2015 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 2.0 cr., Fall, 15 students

2015 MS 506 “Scientific Communication” (co-taught with E. Hilton), 2.0 cr., Spring, 6 students

2014 MS 401D “Fundamentals of Marine Science-Biological Oceanography”, 3.0 cr., Fall, 10 students

2014 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 2.0 cr., Fall, 16 students

2013 MS 401D “Fundamentals of Marine Science-Biological Oceanography”, 3.0 cr., Fall, 8 students

2013 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 2.0 cr., Fall, 18 students

2012 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 2.0 cr., Fall, 25 students

2011 MS 698 “Topics in Zooplankton Ecology”, 1.0 cr., Summer, 6 students

2010 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 2.0 cr., Fall, 23 students

2009 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 2.0 cr., Fall, 21 students

2008 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 2.0 cr., Fall, 18 students

2007 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 1.5 cr., Fall, 20 students

2007 MS 660 “Zooplankton Ecology” (co-taught with K. Tang), 4 cr., Spring, 3 students

2006 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 1.5 cr., Fall, 17 students

2006 MS 698 “Respiration in aquatic ecosystems” (co-taught with E. Canuel), 1 cr., Fall, 5 students

2005 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 1.5 cr., Fall, 22 students

2005 MS 660 “Zooplankton Ecology” (co-taught with K. Tang), 4 cr., Spring, 5 students

2004 MS 501D “Fundamentals of Marine Science-Biological Oceanography”, 1.5 cr., Fall, 28 students

2003 MS 652 “Topics in Plankton Ecology” (co-taught with H. Ducklow), 3 cr., Fall, 5 students

- 2003** MS 501D “Fundamentals of Marine Science-Biological Oceanography” (co- taught with W. Smith), 1.5 cr., Fall, 21 students
- 2003** MS 698 “Dissolved Organic Matter in Aquatic Systems” (co-taught with D. Bronk), 1 cr., Spring, 4 students
- 2002** MS 660 “Zooplankton Ecology”, 4 cr., Fall, 7 students
- 2002** MS 501, MS 501L “Fundamentals of Marine Science” (guest lecturer, instructor), 7 (total) cr., Fall, 28 students
- 2001** MS 652 “Topics in Plankton Ecology” (co-taught with H. Ducklow), 3 cr., Fall, 5 students
- 2001** MS 501, MS 501L “Fundamentals of Marine Science” (guest lecturer, instructor), 7 (total) cr., Fall, 20 students

Courses taught (outside VIMS)

- 2009** “Marine Microbial Ecology” visiting Distinguished Lecturer, CMORE, U. Hawaii, summer, 20 students
- 2006, 2007** “Oceans and Climate Change” visiting Distinguished Lecturer, Sea Education Association, Woods Hole, MA, Fall, 20 students
- 1997, 1998, 1999, 2000** “Biological Oceanography”, Beaufort- Bermuda program with Duke University, Bermuda Institute of Ocean Sciences, 4 cr., Spring, 8-14 students
- 1994, 1995, 1996, 1997** “Biological Oceanography”, Summer course, Bermuda Institute of Ocean Sciences, 4 cr., Summer, 8-14 students
- 1994** MS 1, “Introduction to Marine Sciences” Marine Sciences Department, University of California, Santa Cruz, 4 cr., Fall, 77 students.

Students mentored

Major advisor (VIMS):

(started- graduated)

- Jack Conroy M.S. 2016-
Dissertation topic: Zooplankton in the Western Antarctic Peninsula
- Patricia Thibodeau Ph.D. 2014-
Dissertation topic: Environmental controls on pteropod ecology and physiology in the Western Antarctic Peninsula
- Jami Ivory M.S. 2012-2015
Thesis title: Diel, seasonal, and interannual patterns in mesozooplankton abundance in the Sargasso Sea
- Miram Gleiber M.S. 2011-2014
Thesis title: “Long-Term Change in Copepod Community Structure in the Western Antarctic Peninsula: Linkage to Climate and Implications for Carbon Cycling”
- Brandon Conroy Ph.D. 2010-2016
Dissertation title: Zooplankton community composition and grazing in the Amazon River Plume and western tropical North Atlantic Ocean
- Joshua Stone Ph.D. 2010-2016
Dissertation title: Population dynamics of gelatinous zooplankton in the Chesapeake Bay and Sargasso Sea, and effects on carbon export

- Jeanna Hudson M.S. 2009-2012
Thesis title: “Trophic Ecology of Mesopelagic Myctophids (Family Myctophidae) from the Northern Mid-Atlantic Ridge (Iceland to the Azores)”
- Kate Ruck M.S. 2009-2012
Thesis title: “Zooplankton prey quality and feeding dynamics along the Western Antarctic Peninsula”
- Lori Price (Garzio) M.S. 2009-2012
Thesis title: “Microzooplankton community structure and grazing impact along the Western Antarctic Peninsula”
- Bethany Eden M.S. 2005-2008
Thesis title: “Zooplankton community structure in a cyclonic and mode-water eddy in the Sargasso Sea”
- Grace Saba Ph.D. 2003-2009
Dissertation title: “The role of mesozooplankton and microzooplankton grazers in the production of dissolved organic and inorganic nutrients”
- Stephanie Wilson Ph.D. 2003-2008
Dissertation title: “Mesopelagic zooplankton feeding ecology and effects on particle repackaging and carbon transport in the subtropical and subarctic North Pacific Ocean”
- Robert Condon Ph.D. 2002-2008
Dissertation title: “Impacts of gelatinous zooplankton on dissolved organic matter cycling and bacterioplankton communities in the York River Estuary”

Major advisor (previous to VIMS):

- (started- graduated)
Astrid Schnetzer Ph.D. 1998- 2001 BIOS, U. Vienna, Austria.
Dissertation title: “Transport of particulate organic matter by zooplankton vertical migration in the Sargasso Sea”

Post-docs mentored (VIMS):

- Kim Bernard, Ph.D. 2009-2012
Sarah Goldthwait, Ph.D. 2004-2006

Student committee service (VIMS):

	Degree	(started- graduated)	Major advisor/s
William Goldsmith	PhD	2013-	J. Graves
Lúcia Safi	PhD	2013-	R. Carnegie
Randy Jones	MS	2012-2015	W. Smith
Jenna Spackeen	PhD	2010-	D. Bronk
Anna Mosby	MS	2010-2013	W. Smith
Kathleen Donaldson	MS	2010-(withdrew)	W. Smith
Itchika Sivaipram	PhD	2010-	L. Schaffner
April Cook	MS	2009- 2011	T. Sutton
Emily Brault	MS	2009- 2012	E. Canuel
Christopher Sweetman	MS	2008- 2012	M. Vecchione/ R. Latour
Yongjin Xiao	PhD	2008- 2013	M. Friedrichs
Stephen Baer	PhD	2007- 2013	D. Bronk
Glauca Fragoso	MS	2007- 2009	W. Smith
Emily Yam	MS	2004 -2007	K. Tang
Lance Gardner	PhD	2003- 2012	M. Brush

Vince Saba	PhD	2002- 2007	J. Musick
Sasha Tozzi	PhD	2002- 2010	W. Smith
Sarah Muffelman	MS	2002- 2006	H. Austin
Paul Bradley	PhD	2001- 2008	D. Bronk
Kristin France	PhD	2001- 2007	E. Duffy
Joel Hoffman	PhD	2001- 2006	J. Olney/ D. Bronk
Amy Sheilds	PhD	2001- 2007	W. Smith
Amy Chiuchiolo	MS	2000- 2003	R. Dickhut./ H. Ducklow
Bob Daniels	MS	2000- 2003	H. Ducklow
Liza Delizo	MS	1999- 2003	W. Smith

Student committee service (outside examiner):

	Degree	(started- graduated)	Major advisor/s	Institution
Chandler Countryman	PhD	2014-	A. Burd	U. Georgia
Karen Stamieszkin	PhD	2010- 2016	A. Pershing	U. Maine
Kelly Robinson	PhD	2007- 2012	M. Graham	U. South Alabama
Hussain Al-Mutairi	PhD	2002- 2009	J. Torres	U. South Florida
Jonathan Cohen	PhD	1999- 2004	D. Forward	Duke U.

Students mentored, undergraduates and high school (VIMS):

Andrew Corso	Undergraduate Intern	2016	Antarctic research cruise, follow-up lab work
Anjali Bhatnagar	Undergraduate Intern	2016	Antarctic research cruise
Jack Conroy	Undergraduate Intern	2015-2016	Antarctic research cruise
Anna Klompen	Undergraduate Intern	2014	Laboratory work on Bermuda zooplankton
Sornsiri Phongphattarawat	Undergraduate Intern	2013 (spring)	Intern from Thailand, York River hydromedusae
Bruce Pfirrmann	Undergraduate Intern	2013	Antarctic research cruise
Domi Paxton	Undergraduate Intern	2013	Antarctic research cruise
Domi Paxton	Undergraduate Intern	2011&2012	Palmer Station, Antarctica field research
A. Frances Armstrong	Undergraduate Intern	2011	Antarctic research cruise
Caitlin Smoot	Undergraduate Intern	2010	Antarctic research cruise
Rebecca Walker	New Horizons Governor's School	2010 (summer)	Laboratory work on Antarctic zooplankton lipid content and gut chlorophyll content
Miram Gleiber	W&M Honors Thesis	2010	Time-series of vertical flux of zooplankton fecal pellets on the continental shelf of the Western Antarctic Peninsula
Sarah Giltz	Undergraduate Intern	2009	Antarctic research cruise
Miram Gleiber	Undergraduate Intern	2008 -2009	Antarctic research cruise, follow-up lab work Honors thesis
Lori Price	Undergraduate Intern	2007 (summer)	Feeding of copepods and microzooplankton on harmful algae
Heather Nees	REU program	2005 (summer)	Feeding of gelatinous zooplankton in the York River Estuary
Rachel Fontana	REU program	2003 (summer)	Selective feeding by <i>Acartia tonsa</i> copepods on natural plankton populations in the York River Estuary
Sarah Wickman	REU program	2002 (summer)	Impacts of feeding by the ctenophore <i>Mnemiopsis leidyi</i> on mesozooplankton populations in the York River Estuary
Jenna Rowe	New Horizons Governor's School	2001-2002	Effect of physical processes on zooplankton distribution in the Chesapeake Bay

Students mentored (BIOS):

REU (Research Experience for Undergraduates) program:

- 2000** Anne Prusak (SUNY Stonybrook) “Production of Colored Dissolved Organic Matter (CDOM) by zooplankton and its possible composition”
- 1999** Marla Ranelletti (University of California Santa Cruz) “The importance of salps (pelagic tunicates) in the flux of organic material to the deep Sargasso Sea”
- 1998** Maria Calvi (Dartmouth) "The effect of light, lunar phase, and substrate type on emergence of demersal zooplankton"
- 1997** Jessica Bohonowych (Duke University) “Chemical defenses in plankton: deterrents against feeding by the sardine *Harengula humeralis*”.
- 1996** Jenny Lin (Harvard University) “Gut-content analysis and gut clearance rates of vertically migrating zooplankton in the Sargasso Sea”.
- 1995** Cecelia Sheridan (University of Michigan) “The *Trichodesmium* community in the Sargasso Sea: Associated organisms and nutrient regeneration”

Undergraduate Honors theses:

- 1997** Cecelia Sheridan (University of Michigan) “The *Trichodesmium* community in the Sargasso Sea”
- 1997** Toby Jarvis (University of Wales, Swansea) “The impact of a mesoscale eddy on the community structure of zooplankton in the Sargasso Sea”

Volunteer Interns:

- 1998** Sheldon Holder (Bermuda High School), June
- 1997** Toby Jarvis (University of Wales, Swansea), July - Sept.
- 1996** Cecelia Sheridan (University of Michigan), June- Aug.
- 1996** Shannon Harris (Manitoba), Feb.- May
- 1996** Sarah Goldthwait (University of California Santa Cruz), Jan.- May

RESEARCH

Fellowships and grants

- Award Term: 9/1/14- 8/31/20 (**current**)
Title: “LTER Palmer, Antarctica (PAL): Land-shelf-ocean connectivity, ecosystem resilience, and transformation in a sea-ice influenced pelagic ecosystem”
Agency: NSF PLR-1440435
Amount: ~\$6,000,000 total (\$706,750 to D. Steinberg)
PI’s: H. Ducklow (Columbia U/Lamont), D. Steinberg (VIMS), O. Schofield (Rutgers), D. Martinson (Columbia U/Lamont), S. Stammerjohn (UCSC), W. Fraser (Polar Research group), A. Friedlaender (OSU)
- Award Term: 6/1/14- 5/31/17 (**current**)
Title: “CSBR: Natural History: Organization and digitization of the larval fish collection at the Virginia Institute of Marine Science ”
Agency: NSF DBI-1349327
Amount: \$499,597
PI’s: E. Hilton, S. Huber, D. Steinberg (VIMS)
- Award Term: 8/1/13- 7/31/18 (**current**)
Title: “The Bermuda Atlantic Time-series Study: Sustained Biogeochemical, Ecosystem, and Ocean Change Observations and Linkages in the Subtropical North Atlantic”
Agency: NSF OCE-1258622
Amount: (\$152,337 to D. Steinberg)
PI’s: N. Bates (BIOS), M. Lomas (Bigelow Laboratory), D. Steinberg (VIMS)

Award Term: 6/10/14- 6/9/16, extension until 12/9/16
 Title: "Jellyfish population dynamics in the Chesapeake Bay (Graduate Fellow - Joshua Stone)"
 Agency: NOAA, Virginia Sea Grant, NA14OAR4170093
 Amount: \$79,999
 PI's: D. Steinberg

Award Term: 5/1/15- 4/30/16, extension until 10/31/16
 Title: "Preliminary investigation of the specific interactions between *Vibrio* spp. and zooplankton taxa in lower Chesapeake Bay"
 Agency: NOAA, Virginia Sea Grant, NA 14OAR4170093
 Amount: \$8,675 total (~\$3,500 to D. Steinberg)
 PI's: C. Audemard, K. Reece, and D. Steinberg (VIMS)

Award Term: 9/1/08- 10/31/14, extension until 8/31/15
 Title: "Palmer, Antarctica Long Term Ecological Research: Looking Back in Time Through Marine Ecosystem Space"
 Agency: NSF OPP-0823101
 Amount: ~\$4,920,000 total (\$677,729 to D. Steinberg)
 PI's: H. Ducklow (MBL), D. Steinberg (VIMS), O. Schofield (Rutgers), D. Martinson (Lamont), S. Stammerjohn (UCSC), W. Fraser (Polar Research group)

Award Term: 10/1/09- 9/30/12, extension until 9/30/13
 Title: "Collaborative Research: Amazon iNfluence on the Atlantic: CarbOn export from Nitrogen fixation by DiAtom Symbioses (ANACONDAS)"
 Agency: NSF OCE-0934036
 Amount: \$3,185,217 total (\$399,581 to D. Steinberg)
 PI's: P. Yager (UGA), D. Steinberg (VIMS), R. Hood, V. Coles (UMD), E. Carpenter (SFSU), J. Montoya (GA Tech), D. Capone, W. Berelson (USC), J. Goes (Bigelow)

Award Term: 6/1/08- 12/31/11, extension until 12/31/12
 Title: "From Microbes to Mammals: Studying climate-induced changes in the Antarctic Marine Ecosystem with a Robotic Cluster"
 Agency: Gordon and Betty Moore Foundation
 Amount: \$1,347,416 total (\$251,572 to D. Steinberg)
 PI's: O. Schofield, S. Glenn (Rutgers), D. Steinberg (VIMS), D. Martinson (Lamont-Doherty)

Award Term: 8/1/08- 7/31/13
 Title: "Bermuda Atlantic Time-series Study (BATS): Years 21-25"
 Agency: NSF OCE-0752366
 Amount: (\$88,347 subcontract to D. Steinberg)
 PI's: A. Knap, M. Lomas, N. Bates (BIOS), D. Steinberg (VIMS)

Award Term: 9/15/06- 9/14/10
 Title: "Collaborative Research: Carbon flux through the twilight zone- new tools to measure change"
 Agency: NSF OCE-0628444 (Carbon and Water)
 Amount: ~\$2,250,000 total (\$271,157 to D. Steinberg)
 PI's: K. Buesseler (WHOI), D. Steinberg (VIMS), Dave Siegel (UCSB), Mike Lomas (BIOS)

Award Term: 9/01/04- 8/31/07
 Title: "Development of an operational model for predicting the near real time distribution and abundance of the scyphomedusa, *Chrysaora quinquecirrha*"
 Agency: NOAA subaward No. Y-05-0011
 Amount: \$44,217
 PI's: D. Steinberg (subward from Yale University)

Award Term: 2/01/04- 1/31/07
 Title: "Impacts of Eddies on Zooplankton Community Structure and Biogeochemical cycling in the Open Ocean"
 Agency: NSF OCE-0351576
 Amount: \$285,000

PI's: D. Steinberg
 Award Term: 8/01/03- 7/31/06
 Title: "Collaborative Research: VERTical Transport in the Global Ocean (VERTIGO)
 Agency: NSF OCE-0324402
 Amount: \$1,926,583 total (\$280,853 to D. Steinberg)
 PI's: K. Buesseler (WHOI), D. Steinberg (VIMS), Mary Silver (UCSC), Dave Siegel (UCSB), Tom Trull (Ant CRC), Phil Boyd (U. Otago)

Award Term: 9/15/02- 8/31/07 (extension to 8/31/08)
 Title: "Collaborative Research: Quantification and modeling of DOC and DON release in marine systems: A study of increasing trophic complexity"
 Agency: NSF OCE-0221825 (Biocomplexity)
 Amount: \$1,699,795 total (\$216,515 to D. Steinberg, \$812,421 total to VIMS)
 PI's: D. Bronk, W. Smith, D. Steinberg, D. Malmquist (VIMS), R. Hood (UMCES), C. Carlson (UCSB), D. Repeta (WHOI), E. Wommack (UDel), K. Flynn

Award Term: 2/1/01- 1/31/03 (extension to 1/31/04)
 Title: "Collaborative Research: Diel, seasonal, and interannual patterns in zooplankton and micronekton species composition in the subtropical Atlantic"
 Agency: NSF OCE -0004256/ NOPP
 Amount: \$239,881
 PI's: D. Steinberg (VIMS), L. Madin (WHOI)

Award Term: 9/1/99- 8/31/02 (extension to 8/31/03)
 Title: "Comparative dynamics of colored dissolved organic matter in open ocean environments"
 Agency: NSF OCE -9977399, 0196305 (extension)
 Amount: \$450,529
 PI's: N. Nelson (UCSB), C. Carlson (UCSB), D. Steinberg (VIMS)

Award Term: 3/1/00- 2/28/03
 Title: "Neutrally-buoyant sediment traps for direct sampling of the upper ocean export flux"
 Agency: NSF OCE-9912044
 Amount: \$60,795
 PI's: J. Price, K. Buesseler (WHOI), subcontract to D. Steinberg (VIMS)

Award Term: 4/1/00- 3/31/03
 Title: "Open ocean and sub-tropical marine research experiences for undergraduates at the Bermuda Biological Station for Research"
 Agency: NSF OCE- 9987626
 Amount: \$219,336
 P.I.'s: H. Trapido-Rosenthal (BBSR), D. Steinberg (BBSR), N. Nelson (BBSR), and D. Malmquist (BBSR)

Award Term: 5/15/98- 4/30/01
 Title: "The Effective Use of Web-Based Scientific Resources in Teaching and Teacher Training: A Collaborative Pilot Program Using Real Data Sets to Explore Oceanography and Global Environmental Change"
 Agency: NSF DUE- 9752494
 Amount: \$207,253
 PI's: D. Malmquist (BBSR), D. Steinberg (BBSR), K. Bishop (COE), L. Martinez-Perez (FIU), A. Knap (BBSR)

Award Term: 5/1/98- 4/30/01
 Title: "The Bermuda Atlantic Time-series Study (BATS)"
 Agency: NSF OCE-9617795
 Amount: \$2,099,992
 PI's: A. Knap (BBSR), D. Steinberg (BBSR), C. Carlson (BBSR), N. Bates (BBSR)

Award Term: 7/15/97- 1/31/99
 Title: "SGER: Chemical ecology of holoplankton: implications in energy flux and mixed species assemblages"
 Agency: NSF OCE-9725041, SGER

Amount: \$46,862
 P.I.'s: D. Steinberg (BBSR), J. McClintock (UAB), B. Baker (FIT)

Award Term: 4/1/97- 3/31/00
 Title: "Open ocean and sub-tropical marine research experiences for undergraduates at the Bermuda Biological Station for Research"
 Agency: NSF OCE- 9619718
 Amount: \$157,621
 P.I.'s: H. Trapido-Rosenthal (BBSR), D. Steinberg (BBSR), N. Nelson (BBSR), and D. Malmquist (BBSR)

Refereed publications in journals and books (note: underlined names are Steinberg's students or post docs)

91. **Steinberg, D.K.** and M. R. Landry (2017). Zooplankton and the ocean carbon cycle. *Annu. Rev. Mar. Sci.* 9: 14.1-14.32. doi: 10.1146/annurev-marine-010814-015924
90. **Steinberg, D.K.** (in press). Chapter 5. Marine biogeochemical cycles b. Zooplankton. M. Edwards, A. Lindley, C. Castellani, (eds.) *North Atlantic Plankton*. Oxford University Press.
89. Obryk, M. K., P. T. Doran, A.S. Friedlaender, M. Gooseff, W. Li, R. Morgan-Kiss, J. C. Priscu, O. Schofield, S.E. Stammerjohn, **D. K. Steinberg**, and H.W. Ducklow (2016). Responses of Antarctic Marine and Freshwater Ecosystems to Changing Ice Conditions. *BioScience* 66: 864-879.
88. Stone, J. P., **D. K. Steinberg** (2016). Salp contributions to vertical carbon flux in the Sargasso Sea. *Deep-Sea Research I*, 113: 90-100.
87. Siegel, D. A., K. O. Buesseler, M.J. Behrenfeld, C. Benitez-Nelson, E. Boss, M.A. Brzezinski, A.B. Burd, C.A. Carlson, E.A. D'Asaro, S.C. Doney, M.J. Perry, R.H.R. Stanley, and **D.K. Steinberg** (2016). Prediction of the Export and Fate of Global Ocean Net Primary Production: The EXPORTS Science Plan. *Frontiers in Marine Science* 3:22. doi: 10.3389/fmars.2016.00022
86. Conroy, B. J., **D. K. Steinberg**, M. R. Stukel, J. I. Goes, and V. J. Coles (2015). Meso- and microzooplankton grazing in the Amazon River plume and western tropical North Atlantic. *Limnology and Oceanography*, doi: 10.1002/lno.10261
85. Gleiber, M. R., **D. K. Steinberg**, and O.M.E. Schofield (2015). Copepod summer grazing and fecal pellet production along the Western Antarctic Peninsula. *Journal of Plankton Research*, doi:10.1093/plankt/fbv070
84. Loick-Wilde, N., S. C. Weber, B. J. Conroy, D. G. Capone, V. J. Coles, P. M. Medeiros, **D. K. Steinberg**, and J. P. Montoya (2015). Nitrogen sources and net growth efficiency of zooplankton in three Amazon River Plume food webs. *Limnology and Oceanography*, doi: 10.1002/lno.10227
83. **Steinberg, D.K.**, K. E. Ruck, M. R. Gleiber, L. M. Garzio, J. S. Cope, K. S. Bernard, S. E. Stammerjohn, O.M.E. Schofield, L. B. Quetin, and R. M. Ross (2015). Long-term (1993-2013) changes in macrozooplankton off the Western Antarctic Peninsula. *Deep-Sea Research I*, 101: 54-70.
82. Ruck, K. E., **D. K. Steinberg**, E.A. Canuel (2014). Regional differences in quality of krill and fish as prey along the Western Antarctic Peninsula. *Marine Ecology Progress Series* 509, 39-55.
81. Stone, J. P., **D. K. Steinberg** (2014). Long-term time-series study of salp population dynamics in the Sargasso Sea. *Marine Ecology Progress Series* 510, 111- 127. doi: 10.3354/meps10985
80. Hudson, J. M., **D. K. Steinberg**, T. T. Sutton, J. E. Graves, and R. J. Latour (2014). Myctophid feeding ecology and carbon transport along the northern Mid-Atlantic Ridge. *Deep-Sea Research I* 93: 104-116.
79. Saba, G. K., W. R. Fraser, V. S. Saba, R. A. Iannuzzi, K. E. Coleman, S. C. Doney, H. W. Ducklow, D. G. Martinson, T. N. Miles, D. L. Patterson-Fraser, S. E. Stammerjohn, **D. K. Steinberg**, and O. Schofield (2014). Winter and spring controls on the summer food web of the coastal West Antarctic Peninsula. *Nature Communications*, 5:4318 doi: 10.1038/ncomms5318 (2014).

78. Goes, J. I., H.d.R. Gomes, A.M. Chekalyuk, E. J. Carpenter, J. P. Montoya, V. J. Coles, P. L. Yager, W.M. Berelson, D. G. Capone, R. A. Foster, **D. K. Steinberg**, A. Subramaniam, and M.A. Hafez (2014). Influence of the Amazon River discharge on the biogeography of phytoplankton communities in the western tropical north Atlantic. *Prog. Oceanogr.* 120: 29-40.
77. Sailley, S. F., H. W. Ducklow, H. V. Moeller, W. Fraser, O. M. Schofield, **D. K. Steinberg**, L.M. Garzio, and S. C. Doney (2013). Carbon fluxes and pelagic ecosystem dynamics near two western Antarctic Peninsula Adélie penguin colonies: an inverse model approach. *Marine Ecology Progress Series*, 492: 253-272.
76. Garzio L. M., **D. K. Steinberg**, M. Erickson, and H.W. Ducklow (2013). Microzooplankton grazing along the Western Antarctic Peninsula. *Aquatic Microbial Ecology*, 70: 215-232.
75. Lomas, M.W., N.R. Bates, R.J. Johnson, A.H. Knap, **D.K. Steinberg**, C.A. Carlson (2013). Two decades and counting: 23-years of sustained open ocean biogeochemical measurements in the Sargasso Sea, Deep-Sea Research II. 93: 16-32.
74. Schofield, O., H. Ducklow, K. Bernard, S. Doney, D. Patterson-Fraser, K. Gorman, D. Martinson, M. Meredith, G. Saba, S. Stammerjohn, **D. Steinberg**, W. Fraser (2013). Penguin biogeography along the West Antarctic Peninsula: Testing the canyon hypothesis with Palmer LTER observations. *Oceanography*. 26(3): 204-206.
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Manuscripts currently in review (note: underlined names are Steinberg's students or post-docs)

- Stone, J. P. and **D. K. Steinberg** (in review) Influence of top-down control in the plankton food web on vertical carbon flux: a mesocosm study in the Chesapeake Bay. *J. Plankton Res.*
- Atkinson, A., S. Hill, E. Pakhomov, V. Siegel, R. Anadon, S. Chiba, K. Daly, R. Downie, P. Fretwell, L. Gerrish, G. Hosie, M. Jessopp, S. Kawaguchi, B. Krafft, V. Loeb, J. Nishikawa, H. Peat, C. Reiss, R. Ross, L. Quetin, K. Schmidt, **D. Steinberg**, R. Subramaniam, G. Tarling, and P. Ward (in review) KRILLBASE: a circumpolar database of Antarctic krill and salp numerical densities, 1926-2016. *Earth System Science Data*.
- Bernard, K., M. Cimino, W. Fraser, J. Kohut, M. Oliver, D. Patterson-Fraser, O. Schofield, H. Statscewich, **D. Steinberg**, P. Winsor (in review) Factors that effect the nearshore biomass and aggregation structure of Antarctic krill in a biological hotspot. *Deep-Sea Res. I*

Unrefereed publications in journals and books

- 2014 Steinberg, D.K.** (2014). Dr. Deborah K. Steinberg (autobiographic sketch). Special issue: Women in Oceanography: A decade later. *Oceanography* 27 (4, Supplement).
- 2010 Steinberg, D.K.**, and D. A. Hansell (2010). Introduction to: "Ecological and biogeochemical interactions in the dark ocean". *Deep-Sea Research II* 57(16): 1429-1432.
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- 2005 Steinberg, D.K.** 2005. Dr. Deborah K. Steinberg (autobiographic sketch). Special issue: Women in Oceanography. *Oceanography* 18 (1).
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Research reports from grant or contract work

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- 1997** Knap, A. H., Michaels, A. F., **Steinberg, D.K.**, Bahr, F., Bates, N., Bell, S., Countway, P., Close, A., Doyle, A., Howse, F., Gundersen, K., Johnson, R., Little, R., Orcutt, K., Parsons, R., Rathbun, C., Sanderson, M., Stone, S., 1997. *BATS methods manual*. U.S. JGOFS Planning Office, Woods Hole.

Invited scholarly papers and talks

- 2016 Steinberg D.K.** "Zooplankton and biogeochemical cycling in the changing ecosystem of the West Antarctic Peninsula", Nicholas School of the Environment, Duke University, NC. Mar., 2016.
- 2015 Steinberg D.K.** "Zooplankton and biogeochemical cycling in the changing ecosystem of the West Antarctic Peninsula" Department of Geosciences, Princeton University, NJ. Nov., 2015.

- 2015 Steinberg D.K.** “Zooplankton community structure, grazing, and carbon export in the Amazon River plume and tropical North Atlantic”, Department of Marine and Coastal Sciences, Rutgers University, NJ. Nov., 2015.
- 2015 Steinberg D.K.** and C. Reiss “Spatial and temporal patterns of zooplankton along the Antarctic Peninsula” Domain 1 Marine Protected Area Workshop, Southwest Fisheries Science Center, National Marine Fisheries Service, La Jolla, CA. March, 2015.
- 2014 Steinberg D.K.** “The biological pump: vertical migration” Ocean Carbon and Biogeochemistry (OCB) Meeting, Woods Hole, MA. July, 2014.
- 2014 Steinberg D.K.** “Ecosystem comparison of trends in zooplankton community structure and role in biogeochemical cycling” North Pacific Marine Science Organization (PICES) FUTURE Open Science Meeting, Kohala Coast, HI. April, 2014.
- 2014 Steinberg D.K.** “Zooplankton and biogeochemical cycling in the changing ecosystem of the West Antarctic Peninsula” Hampton University, VA, March, 2014.
- 2013 Steinberg D.K.** “Zooplankton and biogeochemical cycling in the changing ecosystem of the West Antarctic Peninsula” Chesapeake Biological Laboratory, U. Maryland, Dec. 2013.
- 2013 Steinberg D.K.** “Zooplankton and biogeochemical cycling in the changing ecosystem of the West Antarctic Peninsula” North Carolina State University, Nov. 2013.
- 2013 Steinberg D.K.** “Zooplankton and biogeochemical cycling in the changing ecosystem of the West Antarctic Peninsula” University of Maine, Sept. 2013.
- 2012 Steinberg D.K.** “Zooplankton and biogeochemical cycling in the changing ecosystem of the West Antarctic Peninsula” William & Mary 2012 Biology Seminar Series, Sept., 2012.
- 2012 Steinberg D.K.** “Zooplankton and biogeochemical cycling in the changing ecosystem of the West Antarctic Peninsula” Georgia Institute of Technology, Atlanta, GA, Mar., 2012.
- 2012 Steinberg D.K.** “Long-term changes in the role of zooplankton in ocean biogeochemical processes” Sverdrup Award Lecture, TOS/AGU/ASLO Ocean Sciences Meeting, Salt Lake City, UT, Feb., 2012.
- 2011 Steinberg D.K.** (joint seminar with Hugh Ducklow) “Carbon export and zooplankton dynamics in the Palmer LTER”. Alfred Wegner Institute for Polar and Marine Research, Bremerhaven, Germany, Aug., 2011.
- 2011 Steinberg D.K.** “Zooplankton and biogeochemical cycling west of the Antarctic Peninsula”. Cambridge, UK, July, 2011.
- 2011 Steinberg D.K.** “Zooplankton role in biogeochemical cycles: Progress and prospects for the future”. Plenary talk, 5th International Zooplankton Production Symposium, Pucon, Chile, Mar., 2011.
- 2011 Steinberg D.K.**, S. E. Wilson, M. R. Gleiber, H. W. Ducklow, K. O. Buesseler “Ecosystem comparison of zooplankton effects on organic matter transport to the deep ocean”. University of California, Santa Barbara, CA, Mar., 2011.
- 2010 Steinberg D.K.**, S. E. Wilson, M. R. Gleiber, H. W. Ducklow, K. O. Buesseler “Cross-system comparison of zooplankton effects on transport of organic matter to the deep sea”. AGU/ASLO/TOS Ocean Sciences Meeting, Portland, OR, Feb., 2010.
- 2010 Steinberg D.K.** “Planktonic food web controls on carbon cycling in the ocean’s ‘twilight zone’ ”. Old Dominion University, Feb. 2010.
- 2010 Steinberg D.K.** O.M. E. Schofield, W. R. Fraser, S. E. Stammerjohn, D. G. Martinson, S. C. Doney, M. Montes-Hugo, and H. W. Ducklow. “The changing ecosystem of the West Antarctic Peninsula”. Society for Integrative and Comparative Biology Meeting, Seattle WA, Jan. 2010.

- 2009 Steinberg D.K.** “Biological Controls on Flux Through the Twilight Zone: What do we Know, and What do we Need to do Next?”, Chapman Conference on the Biological Carbon Pump of the Oceans, Southampton, UK. Sept., 2009
- 2009 Steinberg D.K.** “Future plans for krill and other macrozooplankton research in the Palmer, Antarctica Long-Term Ecological Research Program (PAL LTER), 3rd International Globec Open Science Meeting, Victoria, BC, Canada. June, 2009
- 2008 Steinberg D.K.,** H. Ducklow, S. Doney “Long-term research and time-series observations: What have we learned?”, Ocean Carbon and Biogeochemistry (OCB) Meeting, Woods Hole, MA. July, 2008
- 2008 Steinberg D.K.,** Wilson, S. E., B. A. S. Van Mooy, K. O. Buesseler, P. P. Boyd, T. Kobari, D. M. Karl “Zooplankton and sinking particle dynamics in the ocean's twilight zone” University of Maryland Horn Point Laboratory. Apr., 2008.
- 2007 Steinberg D.K.,** Wilson, S. E., B. A. S. Van Mooy, K. O. Buesseler, P. P. Boyd, T. Kobari, D. M. Karl “Zooplankton community structure and sinking particle dynamics in the mesopelagic zone”, Woods Hole Oceanographic Institution, Woods Hole, MA. Oct., 2007.
- 2006 Steinberg D.K.,** K. O. Buesseler, B. A. S. Van Mooy, P. P. Boyd, and S. E. Wilson “Zooplankton and carbon flux in the ocean’s twilight zone”, Sea Education Association, Woods Hole, MA. Oct., 2006.
- 2005 Steinberg D.K.** and S.E. Wilson “Zooplankton effects on ocean particle flux: Preliminary results from VERTIGO I”, NYK Maritime Museum, Yokohama, Japan, July, 2005.
- 2005 Steinberg D.K.** “Zooplankton effects on ocean particle flux”, Xiamen University, China, Apr., 2005.
- 2005 Steinberg D.K.** “Zooplankton in the ocean’s twilight zone: Effects on particle flux”, Hampton University, Mar., 2005.
- 2003 Steinberg D.K.** “Zooplankton and biogeochemical cycling in the Sargasso Sea” Bermuda Biological Station for Research, Inc. Centennial Celebration Alumni Symposium, St. Georges, Bermuda, Aug., 2003.
- 2003 Steinberg D.K.,** L. P. Madin, M. R. Landry, A. Schnetzer, and C. C. Sheridan “Zooplankton and Biogeochemical Cycling in the Subtropical Atlantic and Pacific Oceans” 3rd International Zooplankton Production Symposium: The role of zooplankton in Gobal Ecosystem Dynamics: Comparative Studies from the World Oceans. Gijon, Spain, May, 2003.
- 2002 Steinberg D.K.** “Commentary- Does biological community structure influence biogeochemical fluxes? JGOFS says Yes!” Joint Global Ocean Flux Study (JGOFS) Final International Open Science Conference. Washington, D.C, May, 2003.
- 2003 Steinberg D.K.** “The role of grazers in the production of DON” American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting. Salt Lake City, Utah, Feb, 2003.
- 2002 Steinberg D.K.** “Role of zooplankton in the transformation, remineralization, and export of particulate organic matter in the sea”. International JGOFS/IGBP/GAIM meeting on Global Ocean Productivity and the Fluxes of Carbon and Nutrients: Combining Observations and Models. Ispra, Italy, June, 2002.
- 2002 Steinberg D.K.** “Training and education at the time-series stations”. Shifting Paradigms: a U.S. JGOFS Ocean Time-series Summit. Vancouver, BC, Canada, April., 2002.
- 2002 Steinberg D.K.** “Zooplankton in the twilight zone: effects on particle flux and remineralization”. U.S. Joint Global Ocean flux Study (JGOFS) Synthesis and Modeling Program (SMP) workshop on midwater processes. San Antonio, TX, March., 2002.
- 2002 Steinberg D.K..** “Zooplankton community structure and its effect on vertical transport and cycling of elements in the sea”. Dauphin Island Sea Laboratory (U. Alabama) Spring seminar series. Feb., 2002.

- 2002 Steinberg, D.K.** "Toward a census of marine life: a zooplankton species time series in the Sargasso Sea" VIMS Biological Sciences Departmental Fall seminar series. Dec., 2002
- 2001 Steinberg D.K.**, and L.P. Madin. "Effect of zooplankton community structure on particle flux and nutrient cycling at the Bermuda Atlantic Time-series Study (BATS) Site". American Geophysical Union (AGU) Fall meeting. San Francisco, CA Dec., 2001.
- 2001 L.P. Madin and D.K. Steinberg.** "Zooplankton and micronekton studies at Bermuda: An historical perspective". American Geophysical Union (AGU) Fall meeting. San Francisco, CA Dec., 2001.
- 2001 Steinberg, D.K.** "Zooplankton and Biogeochemical cycling in the Sargasso Sea (and some plans for the Chesapeake Bay)" VIMS Biological Sciences Departmental Fall seminar series. Nov., 2001
- 2001 Steinberg, D.K.** "Zooplankton community structure and its role in vertical transport and cycling of elements in the Sargasso Sea". University of Maryland, Horn Point Environmental Laboratory Spring seminar series. May., 2001.
- 2001 Steinberg, D.K.** "Zooplankton community structure and its role in vertical transport and cycling of elements in the Sargasso Sea". Duke University Marine Laboratory Spring seminar series. Apr., 2001.
- 2001 Steinberg, D.K.** "Bermuda Atlantic Time-series Study (BATS) Ancillary Programs" Sargasso Sea Ocean Observatory (S2O2) workshop. Bermuda, Mar., 2001.
- 2001 Steinberg, D.K.** "Zooplankton community structure and its role in vertical transport and cycling of elements in the Sargasso Sea". University of California Santa Barbara, Marine Science Interdepartmental Colloquium. Mar., 2001.
- 2000 Steinberg, D.K.** "Zooplankton community structure and its effect on vertical transport and cycling of elements in the sea" University of South Florida, Dept. of Marine Science. Apr., 2000.
- 1999 Steinberg, D.K.** "Planktonic community structure and biogeochemical cycling at BATS". The Joint Global Ocean Flux Study (JGOFS) steering committee meeting, Honolulu, Hawaii, Oct., 1999.
- 1999 Steinberg, D.K.** "The 'Classroom BATS' distance learning program". The Joint Global Ocean Flux Study (JGOFS) steering committee meeting, Honolulu, Hawaii, Oct., 1999.
- 1998 Steinberg, D.K.** "Zooplankton vertical migration and the active transport of carbon and nitrogen in the Sargasso Sea" Monterey Bay Aquarium Research Institute, Moss Landing, CA. Oct., 1998.
- 1998 Steinberg, D.K.** "Zooplankton vertical migration and the active transport of carbon and nitrogen in the Sargasso Sea" University of Delaware Fall seminar series. Oct., 1998.
- 1998 Steinberg, D.K.** "Creatures of the Deep" and "History of Underwater Exploration" Edinburgh International Science Festival, Edinburgh, Scotland. Mar., 1998.
- 1997 Steinberg, D.K.** "Planktonic community structure and its effect on vertical transport and cycling of elements in the sea" Rutgers University Fall seminar series, NJ. Oct., 1997.
- 1997 Steinberg, D.K.** "Planktonic community structure and its effect on vertical transport and cycling of elements in the sea" University of Southern California, Oct., 1997.
- 1995 Steinberg, D.K.**, A.F. Michaels, and A.H. Knap. "An overview of the Bermuda Atlantic Time-series Study (BATS) station" European Station for Time-Series in the Ocean, Canary Islands (ESTOC) meeting. Canary Islands, Oct., 1995.
- 1994 Steinberg, D.K.** "Mid-water detritus as a zooplankton habitat, food source, and remineralization center in Monterey Bay, CA". Monterey Bay Aquarium Research Institute, Pacific Grove, CA. 1994.
- 1993 Steinberg, D.K.** "Use of marine snow (giant larvacean houses) by mesopelagic zooplankton communities in Monterey Bay, CA". Bermuda Biological Station for Research, Inc. Aug., 1993.

1991 Steinberg, D.K. "Use of marine snow by pelagic zooplankton communities in Monterey Bay". Monterey Bay Aquarium Research Symposium, Monterey, CA, 1991

1990 Steinberg, D.K. "Midwater metazoans associated with pelagic detritus (giant larvacean houses)" Western Society of Naturalists 71st Annual meeting, Monterey, CA, 1990.

Contributed papers presented at professional meetings and published abstracts

(note: underlined names are Steinberg students or post docs)

2016 Steinberg, D. K., P. S. Thibodeau, and S. E. Stammerjohn "Long-term and regional effects of sea ice on zooplankton along the Western Antarctic Peninsula". Sixth International Zooplankton Production Symposium, Bergen, Norway, May 2016.

2016 Conroy, B. J. and D. K. Steinberg "Macrozooplankton community composition in the Amazon River plume and western tropical North Atlantic Ocean". Sixth International Zooplankton Production Symposium, Bergen, Norway, May 2016.

2016 Stone, J. P., D. K. Steinberg, and M. C. Fabrizio "Time series of gelatinous zooplankton in Chesapeake Bay, USA: Environmental controls and interspecific interactions". Sixth International Zooplankton Production Symposium, Bergen, Norway, May 2016.

2016 Thibodeau, P. S., D. K. Steinberg, C. Hauri, and H.W. Ducklow "Environmental controls on temporal and spatial patterns in pteropod (*Limacina helicina*) abundance along the Western Antarctic Peninsula". Sixth International Zooplankton Production Symposium, Bergen, Norway, May 2016.

2016 Atkinson, A., S. Hill, S. Saille, J. Bruun, V. Siegel, E. Pakhomov, D. Steinberg, K. Schmidt, C. Reiss, and S. Kawaguchi "Impacts of rapid regional climate change on the population dynamics of Antarctic krill". Sixth International Zooplankton Production Symposium, Bergen, Norway, May 2016.

2016 Loick-Wilde, N., S. C. Weber, B. J. Conroy, D. G. Capone, V. J. Coles, P. M. Medeiros, **D. K. Steinberg,** and J. P. Montoya "Zooplankton net growth efficiency in the Amazon plume". Sixth International Zooplankton Production Symposium, Bergen, Norway, May 2016.

2016 Steinberg, D. K., K. E. Ruck, and J. S. Cope "Long-term patterns in production and export of fecal pellets by krill and salps along the western Antarctic Peninsula". TOS/AGU/ASLO Ocean Sciences Meeting, New Orleans, LA, Feb 2016.

2016 Ivory, J. A., D. K. Steinberg, and R. J. Latour "Diel, seasonal, and interannual variability in abundance of major mesozooplankton taxa in the Sargasso Sea as related to changing environmental parameters". TOS/AGU/ASLO Ocean Sciences Meeting, New Orleans, LA, Feb 2016.

2016 Stone, J. P., D. K. Steinberg "Influence of top-down control in the plankton food web on vertical carbon flux: a mesocosm study in the Chesapeake Bay". TOS/AGU/ASLO Ocean Sciences Meeting, New Orleans, LA, Feb 2016.

2016 Conroy, B. J., D. K. Steinberg, B. Song, and R. A. Foster. "Grazing by zooplankton on diazotrophs in the Amazon River plume and western tropical North Atlantic". TOS/AGU/ASLO Ocean Sciences Meeting, New Orleans, LA, Feb 2016.

2016 Cope, J. S., D. K. Steinberg, and S. Thanassekos "Environmental Factors Influencing Antarctic Krill Recruitment along the Western Antarctic Peninsula". TOS/AGU/ASLO Ocean Sciences Meeting, New Orleans, LA, Feb 2016.

2016 Sontag, P. T., D. K. Steinberg, and J. R. Reinfelder "Spatial and developmental effects on the accumulation of mercury in Antarctic krill (*E. superba*) along the West Antarctic Peninsula (WAP)". TOS/AGU/ASLO Ocean Sciences Meeting, New Orleans, LA, Feb 2016.

2016 Bernard, K.S., M. A. Cimino, W. Fraser, J. T. Kohut, M. J. Oliver, D. Patterson-Fraser, D. Paxton, S. Raycroft, H. Statscewich, D. K. Steinberg, and P. Winsor "Antarctic krill cohort determines dominant aggregation structure". TOS/AGU/ASLO Ocean Sciences Meeting, New Orleans, LA, Feb 2016.

- 2015** Thibodeau, P. S., J. A. Conroy, and D.K. Steinberg. “Diel Vertical Distribution Patterns of Zooplankton along the Western Antarctic Peninsula”. Long-Term Ecological Research (LTER) All Scientists Meeting, Estes Park, CO, Aug. 2015.
- 2015** Ducklow, H. W., J.E. Conners, S.C. Doney, W.R. Fraser, A.S. Friedlaender, D.G. Martinson, J.D. McDonnell, O.M. Schofield, S.L. Stammerjohn, D.K. Steinberg. “Palmer LTER: Land-Shelf-Ocean Connectivity, Ecosystem Resilience and Transformation in a Sea-Ice Influenced Pelagic Ecosystem”. Long-Term Ecological Research (LTER) All Scientists Meeting, Estes Park, CO, Aug. 2015.
- 2015** Huber, S.K., Konstantinidis, P., Hilton, E. J., and D. K. Steinberg. “Organization, expansion, and digitization of the larval fish collection at the Virginia Institute of Marine Science”. American Society of Ichthyologists and Herpetologists (ASIH) Meeting, Reno, NV, July 2015.
- 2015** Konstantinidis, P., Hilton, E. J., Huber, S.K., and D.K. Steinberg. “Antarctic Ichthyoplankton in the Virginia Institute of Marine Science Nunnally Ichthyology Collection”. American Society of Ichthyologists and Herpetologists (ASIH) Meeting, Reno, NV, July 2015.
- 2015** Thibodeau, P. S., and D.K. Steinberg. “Environmental controls on pteropod abundance and biogeography along the Western Antarctic Peninsula”. Response of pteropods to ocean acidification and climate change workshop, Cambridge, UK, June 2015.
- 2015** Huber, S.K., Konstantinidis, P., Hilton, E. J., and D.K. Steinberg. “Organization, expansion, and digitization of the larval fish collection at the Virginia Institute of Marine Science”. Society for the Preservation of Natural History Collections (SPNHC) Meeting, Gainesville, FL, May 2015.
- 2015** Stone, J. P. and D.K. Steinberg. “Salp contribution to carbon export in the Sargasso Sea”. ASLO Aquatic Science Meeting, Granada, Spain, Feb. 2015.
- 2015** Gleiber, M. R., D.K. Steinberg, and O. Schofield. “Copepod grazing impact and carbon export along the Western Antarctic Peninsula”. ASLO Aquatic Science Meeting, Granada, Spain, Feb. 2015.
- 2014** Steinberg, D.K., H. W. Ducklow, and C.M. Luria. “Production of dissolved organic matter by Antarctic zooplankton and its effect on bacteria production”. TOS/AGU/ASLO Ocean Sciences Meeting, Honolulu, HI, Feb., 2014.
- 2014** Conroy, B. J., Steinberg, D.K.: Zooplankton grazing in the Amazon River plume and western tropical North Atlantic”. TOS/AGU/ASLO Ocean Sciences Meeting, Honolulu, HI, Feb., 2014.
- 2014** Gleiber, M. R., Steinberg, D. K “Copepod community structure and climate warming along the Western Antarctic Peninsula”. TOS/AGU/ASLO Ocean Sciences Meeting, Honolulu, HI, Feb., 2014.
- 2013** Stone, J. P. and D.K. Steinberg “A long-term time-series study of salp population dynamics in the Sargasso Sea”, 4th International Jellyfish Bloom Symposium, June 2013, Hiroshima, Japan.
- 2013** Steinberg, D. K., M. R Gleiber, B. J. Conroy, and W.M. Berelson. “Contribution of zooplankton fecal pellets to carbon flux in the Amazon River plume and western tropical North Atlantic Ocean”. ASLO Aquatic Science Meeting, New Orleans, LA, Feb 2013.
- 2013** Loick-Wilde, N., Gehre, M., Miltner, A., Conroy, B. O., Steinberg, D. K., Montoya, J.P. “Diurnal variation in amino acid concentrations and nitrogen stable isotopes reveal trophic structure and nitrogen dynamics in epi- and mesopelagic zooplankton”. ASLO Aquatic Science Meeting, New Orleans, LA, Feb 2013.
- 2012** Saba, G. K., O. Schofield, and D. K. Steinberg. “Increased feeding and nutrient excretion of adult Antarctic krill, *Euphausia superba*, exposed to enhanced carbon dioxide (CO₂)” Scientific Committee on Antarctic Research (SCAR) Open Science Conference, Portland, OR, June, 2012.
- 2012** Price, L. M., Steinberg, D. K., Ducklow, H. W. “Microzooplankton community structure and grazing impact along the Western Antarctic Peninsula”. TOS/AGU/ASLO Ocean Sciences Meeting, Salt Lake City, UT, Feb., 2012.

- 2012** Gleiber, M. R., Steinberg, D. K., Ducklow, H. W. “Time series of vertical flux of zooplankton fecal pellets on the continental shelf of the Western Antarctic Peninsula”. TOS/AGU/ASLO Ocean Sciences Meeting, Salt Lake City, UT, Feb., 2012.
- 2012** Bernard, K. S., Steinberg, D. K., Fraser, W. R. “Krill distribution and Adelie penguin diet at Anvers and Avian islands, Western Antarctic Peninsula”. TOS/AGU/ASLO Ocean Sciences Meeting, Salt Lake City, UT, Feb., 2012.
- 2012** Ruck, K. E., Steinberg, D. K.; Canuel, E. A. “Krill lipid dynamics along the Western Antarctic Peninsula”. TOS/AGU/ASLO Ocean Sciences Meeting, Salt Lake City, UT, Feb., 2012.
- 2012** Owens, S. A., Buesseler, K. O., Lamborg, C. H., Valdes, J., Lomas, M.W., Johnson, R. J., **Steinberg, D. K.**, Siegel, D. A. “A new record of particle flux at the Bermuda Atlantic Time-series site from neutrally buoyant sediment traps”. TOS/AGU/ASLO Ocean Sciences Meeting, Salt Lake City, UT, Feb., 2012.
- 2012** Conroy, B. J., Steinberg, D. K.: Zooplankton community composition in the Amazon River plume and western tropical North Atlantic”. TOS/AGU/ASLO Ocean Sciences Meeting, Salt Lake City, UT, Feb., 2012.
- 2012** Hudson, J. M., Steinberg, D. K., Sutton, T. T., Graves, J. E. “Feeding ecology and carbon transport of diel vertically migrating myctophids from the northern Mid-Atlantic Ridge”. TOS/AGU/ASLO Ocean Sciences Meeting, Salt Lake City, UT, Feb., 2012. (received a Best Student Talk award)
- 2011** Coles, V., Yager, P., Berelson, W., Capone, E., Carpenter, E., Goes, J., Hood, R., Montoya, J., **Steinberg, D. K.**, and others. “Amazon influence on the Atlantic: CarbOn export from Nitrogen fixation by DiAtom Symbioses (ANACONDAS)”. Ocean Carbon and Biogeochemistry (OCB) Meeting, Woods Hole, MA. July, 2011.
- 2010** Bernard, K.S., Steinberg D. K., Schofield O.M.E. “Summer grazing impact of the dominant macrozooplankton in the Western Antarctic Peninsula”. Scientific Committee on Antarctic Research (SCAR) Open Science Conference, Buenos Aires, Argentina, Aug., 2010.
- 2010** Montes-Hugo M.A., Gould R.W., Arnone R.A., Ducklow H., **Steinberg D.**, Schofield O. “Day-night patterns of particle dynamics of Antarctic waters based on glider-derived observations”. Ocean Optics Meeting, Anchorage, AL, Sept., 2010.
- 2010** Saba, G.K., D. K. Steinberg, D. A. Bronk, and A. R. Place. “The effects of harmful algal species and food concentration on zooplankton grazer production of dissolved organic and inorganic nutrients”. AGU/ASLO/TOS Ocean Sciences Meeting, Portland, OR, Feb., 2010.
- 2010** Schofield, O., H. W. Ducklow, M. Arrott, K. Gorman, A. Kahl, D. Martinson, **D. K. Steinberg**, W. Fraser. “Bathymetric structuring of biological hotspots in the West Antarctic Peninsula”. AGU/ASLO/TOS Ocean Sciences Meeting, Portland, OR, Feb., 2010.
- 2009** **D. K. Steinberg**, D.K., K. E. Ruck, L. M. Price, M. R. Gleiber, J. S. Cope, H. W. Ducklow. Zooplankton Export of Organic Matter in the West Antarctic Peninsula. Long-Term Ecological Research (LTER) All Scientists Meeting, Estes Park, CO, Sept. 2009.
- 2009** Fraser, W.M., K. Gorman, R. Smaniotto, D. Martinson, D. Patterson-Fraser, O. Schofield, **D. Steinberg**, and H. Ducklow. Back to the Cold, a Discovery Cruise to Charcot Island, Western Antarctic Peninsula. Long-Term Ecological Research (LTER) All Scientists Meeting, Estes Park, CO, Sept. 2009.
- 2009** Lomas, M.W., **D. K. Steinberg**, T. Dickey, C.A. Carlson, N.B. Nelson, R. H. Condon, and N.R. Bates (2009). “A multi-year increase in shallow POC export is countered by enhanced mesopelagic POC attenuation in the Sargasso Sea”. Chapman Conference on the Biological Carbon Pump of the Oceans, Southampton, UK, Sept. 2009.
- 2009** Owens, S. A., K. O. Buesseler, C. H. Lamborg, J. R. Valdez, M. W. Lomas, R. J. Johnson, D. A. Siegel, **D. K. Steinberg**. “A New Record of Particle Flux at the Bermuda Atlantic Time-Series Site From Neutrally Buoyant Sediment Traps”. Chapman Conference on the Biological Carbon Pump of the Oceans, Southampton, UK, Sept. 2009.

- 2009** Quetin, L., R. Ross, M. Vernet, W. Kozlowski, L. Yarmey, A. Lowe, M. Amsler, C. Fritsen, O. M.E. Schofield, and **D. Steinberg**. Grazing by larval Antarctic krill and phytoplankton dynamics during the fall west of the Antarctic Peninsula. 3rd GLOBEC Open Science meeting, Victoria, BC, Canada. June, 2009
- 2009** Wilson, S. E., **D. K. Steinberg**. “Autotrophic pico- and nanoplankton in zooplankton guts: evidence of aggregate feeding in the mesopelagic zone and export of small phytoplankton”. ASLO Aquatic Science Meeting, Nice, France, Jan 2009.
- 2009** Lomas, M. W., **D.K. Steinberg**, N.B. Nelson, R.H. Condon, N.R. Bates. A multi-year increase in shallow POC export is countered by enhanced mesopelagic POC attenuation in the Sargasso Sea. ASLO Aquatic Science Meeting, Nice, France, Jan 2009.
- 2008** Condon, R. H., **D. K. Steinberg**, P. A. del Giorgio, D.A. Bronk, T.C. Bouvier, H.W. Ducklow. “The jelly carbon pump: Jellyfish blooms result in a major respiratory sink of carbon in marine systems”. Ocean Carbon Biogeochemistry Meeting, Woods Hole, MA, July 2008.
- 2008** **Steinberg, D. K.**, M. W. Lomas, and L.P. Madin. “A long-term, significant increase in zooplankton biomass at the Bermuda Atlantic Time-series Study (BATS) site in the Sargasso Sea”. AGU/ASLO/TOS Ocean Sciences Meeting, Orlando, FL, March, 2008.
- 2008** Saba, G. K., **D. K. Steinberg**, and D. A. Bronk. “Grazing and nutrient release from *Acartia tonsa* copepods feeding on toxin-producing *Karlodinium venificum*: Interactions of top-down and bottom-up control”. AGU/ASLO/TOS Ocean Sciences Meeting, Orlando, FL, March, 2008.
- 2008** Wilson, S. E., **D. K. Steinberg**, F. L. Chu, J. K. B. Bishop, and K. O. Buesseler. “Characterization of zooplankton diet and particle feeding in the mesopelagic zone using fatty acid lipid biomarkers”. AGU/ASLO/TOS Ocean Sciences Meeting, Orlando, FL, March, 2008.
- 2008** Price, L., G. K. Saba, and **D. K. Steinberg**. “Zooplankton grazing on two ecologically important harmful algal species in the Chesapeake Bay”. AGU/ASLO/TOS Ocean Sciences Meeting, Orlando, FL, March, 2008.
- 2008** Buesseler, K. O., S. Owens, J. Valdes, M. Lomas, R. Johnson, **D. K. Steinberg**, and D. Siegel. “Carbon flux through the twilight zone – new tools to measure change”. AGU/ASLO/TOS Ocean Sciences Meeting, Orlando, FL, March, 2008.
- 2007** Ueda, A., T. Kobari, and **D. K. Steinberg** “Body allometry and chemical composition of interzonally migrating copepods in the subarctic Pacific Ocean”. PICES 16th Annual Meeting, North Pacific Marine Science Organization, Victoria (Canada), Oct., 2007.
- 2007** Kobari, T., A. Ueda, **D. K. Steinberg**, M. Kitamura, and A. Tsuda “Development of ontogenetically migrating copepods in the Western Subarctic Gyre.” PICES 16th Annual Meeting, North Pacific Marine Science Organization, Victoria (Canada), Oct., 2007.
- 2007** **Steinberg, D.K.**, B. A. S. Van Mooy, K. O. Buesseler, S.E. Wilson, P. P. Boyd, T. Kobari, and D. M. Karl “Biotic control of sinking particle flux in the ocean’s twilight zone”. Ocean Carbon and Biogeochemistry Meeting. Woods Hole, MA, July, 2007.
- 2007** **Steinberg, D.K.**, S.E. Wilson, T. Kobari, and K. O. Buesseler “Zooplankton processing of sinking particle flux in the mesopelagic zone”. Fourth International Zooplankton Production Symposium. Hiroshima, Japan, June, 2007.
- 2007** Condon, R. H., **D. K. Steinberg** “Development, biological regulation, and fate of *Mnemiopsis leidyi* blooms in the York River estuary, USA”. Second International Jellyfish Blooms Symposium. Coolangata, Australia, June 2007.
- 2007** Condon, R. H., **D. K. Steinberg**, T.C. Bouvier, P.A. del Giorgio “Links between dissolved organic matter excretion by gelatinous zooplankton and bacterial metabolism”. Second International Jellyfish Blooms Symposium. Coolangata, Australia, June 2007.

- 2007 Steinberg, D.K.**, B. A. S. Van Mooy, K. O. Buesseler, P. P. Boyd, T. Kobari, and D. M. Karl “Microbial vs. zooplankton control of sinking particle flux in the ocean’s twilight zone”. American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting, Santa Fe, NM, Feb, 2007.
- 2007 Eden, B.R., D.K. Steinberg**, S.A. Goldthwait, and D. McGillicuddy “The effect of mesoscale eddies on zooplankton community structure in the Sargasso Sea”. American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting, Santa Fe, NM, Feb, 2007.
- 2007 Henderson, G.K.**, and **D.K. Steinberg** “The impacts of carnivorous feeding by *Acartia tonsa* copepods on dissolved organic matter (DOM)”. American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting, Santa Fe, NM, Feb, 2007.
- 2006 Steinberg, D.K.** and K.O. Buesseler “Zooplankton Community Metabolic Requirements and the Effect on Particle Flux and Remineralization in the Ocean's Twilight Zone”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.
- 2006 Condon, R.H.**, and **D.K. Steinberg** “Impact of Dissolved Organic Matter Excretion by Gelatinous and Crustacean Zooplankton on Bacterial Production in the York River Estuary, Virginia, USA”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.
- 2006 Cope, J.S.**, **D.K. Steinberg**, and E. L. Markhaseva “Taxonomic Analysis of a Zooplankton Time Series in the Sargasso Sea: Patterns of Biodiversity and Relationships with Environmental Parameters”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.
- 2006 Wilson, S.E.**, **D.K. Steinberg**, and K.O. Buesseler “Changes in fecal pellet characteristics with depth as indicators of zooplankton repackaging of particles in the mesopelagic zone”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.
- 2006 Henderson, G.K.**, **D.K. Steinberg**, and D. A. Bronk “Dissolved Organic Matter (DOM) Composition and Release Rates from Meso- and Micro-Zooplankton Grazers in the Chesapeake Bay: Implications of Prey Type”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.
- 2006 Goldthwait, S. A.**, **D.K. Steinberg**, and D. McGillicuddy “Elevated Biomass of Mesozooplankton and Enhanced Fecal Pellet Flux in Cold-Core and Mode-Water Eddies in the Sargasso Sea”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.
- 2006 Bronk, D. A.**, Smith, W. O., Roberts, Q., Carlson, C., Henderson, G., **Steinberg, D.**, Sanderson, M , Wommack, E, Repeta, D, Bronk, W “Influence of Grazing and Viral Infection on the Production of Dissolved Organic Matter”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.
- 2006 Shields, A R.**, Henderson, G K., Dreyer, J C.: Smith, W O, **Steinberg, D. K.** “Influence of Grazing and Viral Infection on the Production of Dissolved Organic Matter”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.
- 2006 Kobari, T** , **Steinberg, D K.**, Wilson, S, Buesseler, K, Tsuda, A , Kitamura, M “Vertical distribution of ontogenetically migrating copepods in the Western Subarctic Gyre”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.
- 2006 Andrews, J E,**Lamborg, C H, Pike, S , **Steinberg, D** , Wilson, S , Valdes, J , Buesseler, K O “An Examination of Sediment Trap Accuracy Issues During VERTIGO”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.
- 2006 Buesseler, K** , Bishop, J .: Boyd, P , Casciotti, K , Dehairs, F , Lamborg, C , Siegel, D, Silver, M , **Steinberg, D** , Saito, S , Trull, T , Valdes, J , Van Mooy, B “What We Know From VERTIGO”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.
- 2006 McGillicuddy, D J,** Bates, N, Bibby, T , Buesseler, K O, Carlson, C , Davis, C S, Falkowski, P , Goldthwait, S , Hansell, D A, Jenkins, W , Johnson, R , Ledwell, J , Li, Q , Siegel, D , **Steinberg, D** “Impacts of Eddies and Mixing

on Plankton Community Structure and Biogeochemical Cycling in the Sargasso Sea”. AGU/ASLO/TOS Ocean Sciences Meeting, Honolulu, Hawaii, Feb, 2006.

- 2005 Steinberg, D.K.** and M.J. Brush “Seasonal cycles of mesozooplankton in the York River tributary of Chesapeake Bay, Virginia, USA”. Estuarine Research Federation (ERF) Conference. Norfolk, Virginia, Oct., 2005.
- 2005 Condon, R.H.**, and **D.K. Steinberg** “Effects of ctenophores on dissolved organic matter cycling in the York River estuary, Virginia, USA”. Estuarine Research Federation (ERF) Conference. Norfolk, Virginia, Oct., 2005.
- 2005 Henderson, G.K.**, **D.K. Steinberg**, and D.A. Bronk “The Role of Mesozooplankton and Microzooplankton Grazers in the Production of Dissolved Organic Matter (DOM)”. Estuarine Research Federation (ERF) Conference. Norfolk, Virginia, Oct., 2005.
- 2005 Bronk, D.**, **D. Steinberg**, W. Smith, C. Carlson, E. Wommack, D. Repeta, R. Hood, G. Henderson, A. Cano, and Q. Roberts “Quantification and modeling of DOC and DON release in marine systems: a study of increasing trophic complexity”. Biocomplexity in the Environment Meeting. Arlington, Virginia, Mar., 2005.
- 2004 Condon, R.H.**, and **D.K. Steinberg** “Effects of ctenophores on organic and inorganic nutrient cycling in the York River estuary, Virginia, USA”. American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting. Savannah, Georgia, June, 2004.
- 2004 Buesseler, K. O.**, Andrews, J. E., Bishop, J. K., Boyd, P. W., Dehairs, F., Matear, R., Sarin, M. M., Siegel, D. A., Silver, M. W., **Steinberg, D. K.**, Trull, T. W., Valdes, J. R. “Vertigo here we go”. American Society of Limnology and Oceanography (ASLO)/ The Oceanography Society (TOS) Ocean Research Conference. Honolulu, Hawaii, Feb, 2004.
- 2003 Brush, M.J.**, R.J. Latour, R.L. Wetzel, and **D.K. Steinberg** “Analysis of a 17-year database for plankton in Chesapeake Bay”. Estuarine Research Federation Conference. Seattle, Washington, September, 2003.
- 2003 Steinberg D.K.**, L.P. Madin, and A. Schnetzer “Zooplankton Community Structure and Biogeochemical Cycling at the Bermuda Atlantic Time-series Study (BATS)”. Joint Global Ocean Flux Study (JGOFS) Final International Open Science Conference. Washington, D.C, May, 2003.
- 2003 Schnetzer, A.**, and **D.K. Steinberg** “The Impact of diel vertical migration on surface export of particulate organic matter and cycling of energy in the mesopelagic zone”. Joint Global Ocean Flux Study (JGOFS) Final International Open Science Conference. Washington, D.C, May, 2003.
- 2003 Siegel, D.A.**, N.B. Nelson, S. Maritorea, C.A. Carlson, A.F. Michaels, D.A. Hansell, and **D.K. Steinberg** “Distribution, Dynamics and Biogeochemical Implications of Colored Dissolved Organic Materials in the Open Ocean: Discoveries Made During the JGOFS Era”. Joint Global Ocean Flux Study (JGOFS) Final International Open Science Conference. Washington, D.C, May, 2003.
- 2003 Steinberg D.K.**, E. Markhaseva, J.S. Cope, S.E. Wilson, and L.P Madin “Diel, seasonal, and interannual patterns in zooplankton species composition in the subtropical Atlantic: A census of marine life”. American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting. Salt Lake City, Utah, Feb, 2003.
- 2003 Nelson, N.B.**, C.A. Carlson, and **D.K. Steinberg** “Distribution and dynamics of CDOM in the Sargasso Sea”. American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting. Salt Lake City, Utah, Feb, 2003.
- 2003 Carlson, C.A.**, S.J. Goldberg, N.B. Nelson, and **D.K. Steinberg** “Spatial variability of DOC quality and quantity in the Sargasso Sea”. American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting. Salt Lake City, Utah, Feb, 2003.
- 2002 Steinberg D.K.**, and L.P Madin “Zooplankton and Biogeochemical cycling at BATS”. Shifting Paradigms: a U.S. JGOFS Ocean Time-series Summit. Vancouver, BC, April., 2002.

- 2002** Schnetzer, A. and **D.K. Steinberg**. “Natural Diets of Vertically Migrating Zooplankton in the Sargasso Sea”. American Society of Limnology and Oceanography (ASLO) /American Geophysical Union (AGU) Ocean Sciences meeting. Honolulu, HI, Feb., 2002.
- 2002** Stanley, R.H.R., K.O. Buesseler, **D. K. Steinberg**, J.E. Andrews, S.J. Manganini, J.R. Valdes, J.F. Price “Understanding Upper Ocean Particle Flux: Neutrally Buoyant Sediment Traps and Standard Surface-Tethered Traps”. American Society of Limnology and Oceanography (ASLO) /American Geophysical Union (AGU) Ocean Sciences meeting. Honolulu, HI, Feb., 2002.
- 2001** L.P. Madin and **D.K. Steinberg**. “Zooplankton and micronekton studies at Bermuda: An historical perspective”. American Geophysical Union (AGU) Fall meeting. San Francisco, CA Dec., 2001.
- 2001** **Steinberg D.K.**, N.B. Nelson, and C.A. Carlson. “Zooplankton production of colored dissolved organic matter (CDOM) in the open ocean”. American Society of Limnology and Oceanography (ASLO) meeting. Albuquerque, New Mexico. Feb. 2001.
- 2001** Ranelletti, M. and **D.K. Steinberg** “Frequency and ecological impact of salp blooms at the Bermuda Atlantic Time-series Study (BATS) site in the Sargasso Sea”. American Society of Limnology and Oceanography (ASLO) meeting. Albuquerque, New Mexico. Feb. 2001.
- 2001** Fraser, P.J., A.G. Macdonald, and **D.K. Steinberg** “Hydrostatic pressure drives neural responses in shallow and deep crustacea”. Royal Institute of Navigation (RIN) meeting. Oxford, England. Apr. 2001.
- 2000** **Steinberg D.K.**, L.P. Madin “Influence of Zooplankton Community Structure on Export Processes at the Bermuda Atlantic Time-series Study (BATS) Site”. JGOFS Open Science Conference. Bergen, Norway. 2000.
- 2000** N. R. Bates, C. A. Carlson, D. A. Hansell, R. J. Johnson, **D.K. Steinberg**, Anthony H. Knap . “A Decade of Ocean Physical and Biogeochemical Observations at the U.S. JGOFS Bermuda Atlantic Time-series (BATS)” JGOFS Open Science Conference. Bergen, Norway. 2000.
- 2000** Carlson C.A., N.R. Bates, **D.K Steinberg**, D.A. Hansell, R.J. Johnson, A.H. Knap, A.F. Michaels. An overview of biogeochemical variability at the U.S. JGOFS Bermuda Atlantic Time-series Study (BATS) site. JGOFS Open Science Conference. Bergen, Norway. 2000.
- 2000** **Steinberg D.K.**, M. Raneletti, L.P. Madin, “Influence of a dense salp bloom on particle export at the Bermuda Atlantic Time-series Study (BATS) site”. American Society of Limnology and Oceanography (ASLO) /American Geophysical Union (AGU) Ocean Sciences meeting. San Antonio, TX. 2000.
- 2000** Schnetzer, A. and **D. K. Steinberg** “Active Transport of Particulate Organic Carbon (POC) by Vertically Migrating Zooplankton in the Sargasso Sea” (ASLO) /American Geophysical Union (AGU) Ocean Sciences meeting. San Antonio, TX. 2000.
- 2000** M. Roman, M. Landry, L. Madin, **D. Steinberg**, X. Zhang “Estimates of Oceanic Copepod Production: A Comparison Using the Bermuda and Hawaii Time Series Data” (ASLO) /American Geophysical Union (AGU) Ocean Sciences meeting. San Antonio, TX. 2000.
- 2000** G. Kim, L.Y. Alleman, T.M. Church, M.H. Conte, **D.K. Steinberg**, and K.M. Orcutt Atmospheric wet deposition of iron fuels biogeochemical fluxes in the oligotrophic Sargasso Sea (ASLO) /American Geophysical Union (AGU) Ocean Sciences meeting. San Antonio, TX. 2000.
- 2000** Goldberg, S.J., Carlson, C.A., **Steinberg, D.K.**, Wheeler, B.R. “Bacterioplankton Utilization of Zooplankton Derived DOM and Differential Utilization of Neutral Sugars” (ASLO) /American Geophysical Union (AGU) Ocean Sciences meeting. San Antonio, TX. 2000.
- 2000** K O. Buesseler, J. F. Price, J. R. Valdes , **D.K. Steinberg** , A. F. Michaels “Can we directly and reliably measure particle export in the upper ocean?” (ASLO) /American Geophysical Union (AGU) Ocean Sciences meeting. San Antonio, TX. 2000.

- 2000** D. L. Malmquist, **D. K. Steinberg**, K. O. Bishop, P. Tuddenham, L. A. Martínez-Pérez “Classroom BATS: Motivating and Facilitating Inquiry-based exploration of real oceanographic data” (ASLO) /American Geophysical Union (AGU) Ocean Sciences meeting. San Antonio, TX. 2000.
- 2000** Neuer, S., R. Davenport, T. Freudenthal, G. Wefer, O. Llinas, M. Rueda, **D. K. Steinberg**, M.H. Conte, D. M. Karl “A comparison of the biogeochemistry of the European time series station ESTOC with BATS and HOT”. JGOFS conference. Bremen, Germany, Sept. 2000.
- 1999** Bates, N.R., A.H. Knap, A.F. Michaels, **D.K. Steinberg**, C.A. Carlson, D.A. Hansell, R.J. Johnson, and S. Bell.. Ocean variability at the U.S. JGOFS Bermuda Atlantic Time-series Study (BATS) site. International JGOFS Symposium, Oban, Scotland, May, 1999.
- 1999** Carlson C.A., N.R. Bates, **D.K. Steinberg**, D.A. Hansell, R.J. Johnson, A.H. Knap, and A.F. Michaels 1999. An overview of biogeochemical variability at the U.S. JGOFS Bermuda Atlantic Time-series Study (BATS) and Hydrostation S site in the northwestern Sargasso Sea. JGOFS North Pacific Workshop and SEATS planning meeting, Taipei Taiwan. March 1999; Pg 10.
- 1999** Carlson, C., **D. Steinberg**, N. Bates, D. Hansell, and R. Johnson. 1999. Using trends observed in the BATS data set to gain insight into potential effect of climate change on upper ocean biogeochemistry. US JGOFS SMP (Synthesis and Modeling Project) Ocean Biogeochemical Response to Climate Change. Workshop Report, July 13-17, 1998, Durham, NH. US JGOFS Planning Report Number 22. p. 43.
- 1998** **D. Steinberg**, C. Carlson, N. Bates, S. Goldthwait, L. Madin, and A. Michaels. 1998. Zooplankton vertical migration and the active transport of dissolved organic and inorganic carbon in the Sargasso Sea. US JGOFS SMP (Synthesis and Modeling Project) Time-series stations and modeling. US JGOFS Planning Report Number 21, April, 1998, p. 81.
- 1998** **Steinberg D.K.**, D.A. Hansell. 1998. Excretion and Active Transport of Ammonia and Dissolved Organic Nitrogen by Vertically Migrating Zooplankton in the Sargasso Sea. ASLO (American Society of Limnology and Oceanography)/AGU (American Geophysical Union) meeting San Diego, CA. (session chair, poster)
- 1998** Malmquist, D.L., **D.K. Steinberg**, K.O. Bishop, P.Tuddenham, L.A. Martinez-Perez. 1998. BATS in the classroom: Using real oceanographic data for inquiry-based learning. AGU fall meeting, San Francisco, CA. (talk)
- 1998** Bates, N. R. , R. J. Johnson, C. A. Carlson, A. H. Knap, A. F. Michaels, **D. K. Steinberg**. 1998. Interannual Ocean Variability at the U.S. JGOFS Bermuda Atlantic Time-series Study (BATS) and Hydrostation S site. European Geophysical Society XXIII General Assembly, Nice. (talk)
- 1997** **D. Steinberg**, C. Carlson, N. Bates, and A. Michaels. 1997. Zooplankton vertical migrations and the active transport of dissolved organic and inorganic carbon in the Sargasso Sea. ASLO Santa Fe, New Mexico. (talk)
- 1997** **D. Steinberg**, C. Carlson, N. Bates, S. Goldthwait, L. Madin, and A. Michaels. 1997. " Zooplankton vertical migrations and the active transport of dissolved organic and inorganic carbon in the Sargasso Sea" JGOFS Synthesis and Modeling meeting, Snowbird, UT. (poster)
- 1997** **D. Steinberg**, N. Nelson. D. Malmquist. 1997. Open ocean and sub-tropical marine research experiences for undergraduates at the Bermuda Biological Station for Research. ASLO, Santa Fe, New Mexico. (talk)
- 1997** N. Bates, A. Knap, A. Michaels, **D. Steinberg**, C. Carlson, D. Hansell, R. Johnson, S. Bell Ocean variability at the U.S. JGOFS Bermuda Atlantic Time-series Study (BATS) site. 1997. International JGOFS symposium, Oban, Scotland. (talk)
- 1997** S. Goldthwait, **D. Steinberg**, L. Madin, E. Horgan, and A. Michaels. 1997. Diurnal, Seasonal, and Annual Changes in the Abundance of Common Vertically Migrating Copepods and Euphausiids at the Bermuda Atlantic Time-series Station. TOS (The Oceanography Society) meeting, Seattle WA. (poster)
- 1996** **D. Steinberg**, M. Silver, and C. Pilskaln. 1996. Contribution of zooplankton associated with detritus to sediment trap swimmer carbon in Monterey Bay, CA. ASLO/AGU meeting in San Diego, CA. (poster)

- 1996** Silver, M.W., S.L. Coale, C.H. Pilskaln, and **D.K. Steinberg**. 1996. Sediment traps: Potential biases in collecting uncommon particles. ASLO/AGU San Diego, CA. (poster)
- 1994 D. Steinberg**, Silver, M.W., Pilskaln, C.H. 1994. Community metabolism on mid-water detritus (giant larvacean houses) in Monterey Bay, CA: The role of metazoans vs. the microbial community". ASLO meeting, San Diego, CA. (talk)
- 1994** Silver, M.W., Coale, S.L., **Steinberg, D.K.**, Pilskaln, C.H. 1994. The role of "Macro-snow" as microbial centers and vertical redistribution agents in mesopelagic communities. ASLO meeting, San Diego, CA. (talk)
- 1992 Steinberg**, D.K., Silver, M.W., Pilskaln, C.H. 1992. Use of Pelagic detritus (giant larvacean houses) by midwater metazoans". ASLO meeting, Santa Fe, New Mexico. (talk)
- 1992** Silver, M.W., Pilskaln, C.H., Coale, S.L., **Steinberg, D.K.** 1992. Microorganism communities of giant larvacean houses in the midwater zone of Monterey Bay. ASLO meeting, Santa Fe, New Mexico. (talk)

PROFESSIONAL SERVICE AND SCIENTIFIC LEADERSHIP

VIMS and W&M Governance

- 2016-present** Marine Science Minor (interim co-Chair)
- 2015-present** School of Marine Science Ombuds team faculty rep. June 2015- present.
- 2015-present** Biological Sciences Department Search committee- Marine Physiological Ecologist. Mar. 2015-present.
- 2015-present** SCHEV Outstanding Faculty Award nomination selection committee.
- 2013-present** Faculty Status & Tenure Review committee (Chair). July 2013-present.
- 2013-present** Commonwealth Center for Energy & Environment (CCEE) Steering Committee (member). Dec. 2013-present.
- 2013-present** Marine Science Minor Advisory committee (member). Oct. 2013-present.
- 2012-present** Planning Steering Committee for new research vessel at VIMS (member). June 2012-present.
- 2016** Chaired Professorship award committee (Chair)
- 2015** W&M Jefferson award selection committee.
- 2014-2015** W&M Tack lecture selection committee.
- 2013-2015** Post-doctoral Program Advisory Committee (member). Dec. 2013-July 2015.
- 2013-2015** SMS Graduate Admissions committee (alternate). July 2013- July 2015.
- 2014** Associate Dean of Academic Studies Business Manager Search committee (member). Jan-Apr. 2014.
- 2014** Three-Minute Thesis Faculty Advisor. Sept.-Oct. 2014.
- 2013-2014** Biological Sciences Department Search committee-Global Change Marine Biologist-2 new faculty hires (member). Sept. 2013-Dec. 2014.
- 2013-2014** Academic Council (alternate). July 2013- Dec. 2014.

- 2012-2013** Physical Sciences Department Search committee-Marine Chemist-2 new faculty hires (member). Sept. 2012-2013.
- 2008-2013** School of Marine Science (SMS) Graduate Admissions committee (Chair). Dec. 2008 – Aug. 2011; Sept. 2012-July 2013.
- 2008-2013** SMS Faculty Status & Tenure Review committee (member). Aug. 2008 – Aug. 2011; Sept. 2012-July 2013.
- 2008-2009** W&M Biology Department Invertebrate Biologist Search committee (member). Dec. 2008 - 2009.
- 2006-2007** Advisory Committee for Review of Dean and Director J. Wells (member). Dec. 2006 - Apr. 2007.
- 2006-2007** Fisheries Science Department Search committee- 2 new faculty hires (member). Nov. 2006 – Sept 2007.
- 2005** Biological Sciences Department Ecosystem Modeler Search committee (member). Jan. 2005 –Jan. 2006.
- 2005- 2009** Qualifying exam moderator. Jan. 2005 –Sept 2009.
- 2005** Advisory Committee for Review of SMS Dean of Graduate Studies (member). Jan. - Feb. 2005.
- 2004** Education Retreat (participant). April 21, 2004.
- 2004-2005** SMS Educational Policy committee (member). Sept. 2004- 2005.
- 2003-2005** SMS Academic Status and Degrees committee (member). Jan. 2003- 2005.
- 2002-2008** SMS Graduate Admissions committee (member). Sept. 2002- 2008.
- 2002-2005** Biological Sciences Department representative, and co-chair for VIMS Institutional seminar series committee. 2002-2005.
- 2003** Banner ‘Web for faculty’ module reviewer, Feb. 2003
- 2001-2002** SMS Graduate Admissions committee (alternate). June 2001 - Aug. 2002.

Editorial board services, Program reviews, National or international research programs & societies

- 2015-present** Ocean Carbon & Biogeochemistry Program Scientific Steering Committee
- 2014-present** Editorial Committee Member, Annual Review of Marine Science
- 2010-present** University-National Oceanographic Laboratory System (UNOLS) Council member (Chair-elect, Oct. 2014-present)
- 2015** The Oceanography Society (TOS) Fellows selection committee
- 2013-2015** Association for the Sciences of Limnology and Oceanography Hutchinson Award Committee
- 2012-2015** The Oceanography Society (TOS) Council member
- 2009** Group leader for national Cutting Edge Early Career Geoscience faculty workshop on proposal review and panels. (June 17, @William and Mary).
- 2008-2010** Guest Editor, Special Issue of Deep-Sea Research II, “Ecological and Biogeochemical Interactions in the Dark Ocean”.

2007-2008 Chair, scientific program organizing committee for the Integrated Marine Biogeochemistry and Ecosystem Research (IMBER) workshop “Ecological and Biogeochemical Interactions in the Mesopelagic Zone” in Fall 2008, (Miami, FL).

2006-2008 American Geophysical Union (AGU) Ocean Sciences Section Executive Committee member

2005-2006 Co-chair, scientific program organizing committee for the American Geophysical Union (AGU) American Society of Limnology and Oceanography (ASLO) Ocean Sciences meeting in February 2006, Honolulu, HI.

2005 Participant, SCOR (international council of scientific unions Scientific Committee on Ocean Research) workshop on sediment trap methods, Xiamen, China, Apr., 2005.

2004-2015 Associate Editor, Deep-Sea Research I.

2004 Program mentor, DIALOG (Dissertations Initiative for the Advancement of Limnology and Oceanography)

2002-2006 Secretary (elected office), American Geophysical Union (AGU), Ocean Sciences Section, Biological Oceanography. (and Ocean Sciences Section Executive committee member)

2003-2004 Chair, scientific program organizing committee for the American Geophysical Union (AGU) Ocean Sciences meeting in January 2004, Portland, OR.

2003 Participant, SCOR (international council of scientific unions Scientific Committee on Ocean Research) workshop on sediment trap methods, Catalina Island, CA, Nov., 2003.

2003 Participant, Census of Marine Life (CoML) Public launch and All Program workshop, Washington, DC, Oct., 2003.

2003 Meeting organizer for MARECO (Mid-Atlantic Ridge Ecosystems) U.S. program initiative. VIMS, July, 2003.

2002-2003 Member, program organizing committee for the American Society of Limnology and Oceanography Aquatic Sciences meeting in February 2003.

2001-2003 Chair, scientific steering and planning committee, 3rd International JGOFS (Joint Global Ocean Flux Study) Open Science Conference in May 2003.

2002 Participant, Census of Marine Life (CoML) and Ocean Biogeographical Information System (OBIS) status and planning workshop for North American researchers, Washington, DC, Sept. 2002.

2002 Participant, American Geophysical Union (AGU) Leadership conference. Leesburg, VA, May 2002.

2002 Participant, Chesapeake Bay Program Scientific and Technical Advisory Committee Workshop: "Suspension feeders: A workshop to assess what we know, don't know, and need to know to determine their effects on water quality", Baltimore, MD, Mar. 2002.

2001 Member, SCOR (international council of scientific unions Scientific Committee on Ocean Research) panel for Sediment trap and Th-234 methods for particulate organic carbon export in the upper ocean, planning workshop, Amsterdam, Netherlands July, 2001

2000 Member, Census of Marine Life (CoML) and Ocean Biogeographical Information System (OBIS) planning workshop, Durham, NH, Sept. 2000.

1999 Participant, The Joint Global Ocean Flux Study (JGOFS) steering committee meeting, Honolulu, Hawaii, Oct., 1999.

1998 Participant, The Joint Global Ocean Flux Study (JGOFS) steering committee meeting, Woods Hole, MA, Oct., 1998.

1998 Member, The Joint Global Ocean Flux Study (JGOFS) Synthesis and Modeling Project (SMP) planning workshop on ocean biogeochemical response to climate change. Durham, NH, July, 1998.

1997 Participant, JASON Project curriculum planning meeting for “JASON IX: Oceans of the Earth and Beyond” Milwaukee, WI, Sept., 1997.

1997 Member, The Joint Global Ocean Flux Study (JGOFS) Synthesis and Modeling Project (SMP) planning workshop on Time-series stations and modeling, Snowbird, Utah, July, 1997.

1997 Committee member and mentor for DIALOG II, Dissertations Initiative for the Advancement of Limnology and Oceanography. (a program for recent Ph.D. recipients) Oct.1997.

1996 Panel member, West coast National Undersea Research Council (NURC) Monterey Bay Initiative. Panel to write RFP (request for proposals), and structure program. May, 1996

Advisory Service to State or Federal Government, and to International Programs

2016 Panelist, National Science Foundation, Divisions of Ocean Sciences and Environmental Biology. May 12-14, 2016.

2015-2016 Participant, invited NASA **EX**port **P**rocesses in the **O**cean from **Re**mo**Te** Sensing (EXPORTS) field campaign Science Definition Team (SDT) Oct. 2015-Oct 2016.

2015-2016 Participant, invited NSF Biology of the Biological Pump Workshop organizing Committee member, Oct. 2015-June 2016.

2015 Participant, invited workshop to establish Marine Protected Area in the Antarctic Peninsula, NOAA Southwest Fisheries Science Center, National Marine Fisheries Service, La Jolla, CA. March, 2015.

2011 Panelist, National Science Foundation, Division of Ocean Sciences, Biological Oceanography Program. May 23-27, 2011.

2010 Participant, Evolution and Climate Change in the Oceans (ECCO) invited workshop sponsored by National Science Foundation. Catalina Island, CA, May, 2010.

2004 Panelist, MIT Sea Grant, Boston, MA, Oct., 2004.

2003 Panelist, National Science Foundation, Division of Environmental Biology, Biodiversity Surveys & Inventories Program. Mar. 2003

2003 Participant/ Advisor, Chesapeake Bay Tidal Monitoring and Analysis Workgroup Workshop, La Plata, MD, June, 2003.

2001-2005 Member, SCOR (international council of scientific unions Scientific Committee on Ocean Research) panel for Sediment trap and Th-234 methods for particulate organic carbon export in the upper ocean

2001 Panelist, National Science Foundation, Division of Ocean Sciences, Research for Undergraduates Program. Nov. 2001

2001 Member, Sargasso Sea Ocean Observatory (S2O2) workshop. Bermuda, Mar., 2001.

2000 Member, Ocean Carbon Transformations, Exchanges, and Transports (OCTET) (new NSF initiative) planning workshop. VA, Mar., 2000

1998 Member, Census of Marine Life (CoML) planning workshop. Southampton, England Apr., 1998

Public Outreach

2016 Career Day presenter at Magruder Elementary, Williamsburg, VA, May 10, 2016

2016 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 21, 2016

2015 Screening of film ‘Antarctica, Beyond the Ice’ VIMS After Hours Public Lecture Series, Sept 24, 2015

2015 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 30, 2015
2015 National Public Radio interview, “For Good Reason”– about my research, May 21 (aired June 25), 2015
2014 Talk/ demo –deep sea for 5th graders, Magruder Elementary, Williamsburg, VA, Nov 24, 2014
2014 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 17, 2014
2014 Talk/ demo -marine food webs for 4th graders, Magruder Elementary, Williamsburg, VA, May, 2014
2014 Discussion Panelist for film documentary “Chasing Ice”, VIMS After Hours Public Lecture Series, March 27, 2014
2013 William and Mary Tack Public Lecture Series for Faculty Excellence, “From Plankton to Planet”, Kimball Theatre, Williamsburg, VA, October 29, 2013
2013 “Science Under Sail”, at sea public talk on Jellyfish and plankton, aboard the schooner *Alliance*, May 29, 2013
2013 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 18, 2013
2013 Career Day presenter at Magruder Elementary, Williamsburg, VA, May 10, 2013
2013 Talk/ demo -marine organism adaptations for 3rd graders, Magruder Elementary, Williamsburg, VA, March 21, 2013
2012 Talk/ demonstration on zooplankton for 7th graders, Queens Lake Middle School, Williamsburg, VA, June 11, 2012
2012 Career Day presenter at Magruder Elementary, Williamsburg, VA, June 1, 2012
2012 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 19, 2012
2011 “Science Under Sail”, at sea public talk on Jellyfish and plankton, aboard the schooner *Alliance*, July 6, 2011
2011 VIMS/CBNEERS Discovery Lab for the public, “Antarctica: Penguins, plankton, and more”, June 28, 2011
2011 Talk/ demonstration on zooplankton for 1st graders, Margruder Elementary School, Williamsburg, VA, June 9, 2011
2011 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 21, 2011
2010 Career Day presenter at Magruder Elementary, Williamsburg, VA, March 26, 2010
2010 Mathews Maritime Foundation, “A River in the Ocean: How Currents Affect Ocean Biology” Jan. 21, 2010
2009 VIMS Chefs’ Seafood Symposium, “Plankton: Seafood for seafood” Oct. 13, 2009
2009 VIMS After Hours Public Lecture Series, “Winter in July: Antarctic Research at VIMS” July 30, 2009
2009 James City County Library public lecture, “A River in the Ocean: How Currents Affect Ocean Biology” June 4, 2009
2009 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 30, 2009
2008 Talk/ demonstration on zooplankton for “Fabulous Friday” Rawls Byrd Elementary, May 30, 2008
2008 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 17, 2008
2007 Aquarius Habitat outreach program, Magruder Elementary, Nov. 15, 2007
2007 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 19, 2007
2006 Christopher Newport University, “Sink or swim: Animal drifters and the carbon cycle”, Sept 20, 2006
2006 VIMS Eastern Shore Laboratory Public Lecture Series, Jellyfish in the Chesapeake Bay and Beyond”, Sept 6, 2006
2006 Talk/ demonstration on zooplankton for “Fabulous Friday” Rawls Byrd Elementary, June 2, 2006
2006 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 20, 2006
2006 Career Day presenter at Magruder Elementary, Williamsburg, VA, May 17, 2006
2005 Career Day panelist and presenter at Walsingham Academy, Williamsburg, VA, May 16, 2005
2005 Williamsburg Library public lecture, “Sink or swim: Animal drifters and the carbon cycle”, May 19, 2005
2005 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 21, 2005
2004 Radio interview for program “Our Ocean World”, July 15, 2004
2004 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 22, 2004
2004 Talk/ demonstration on zooplankton to VIMS tour groups and school groups (~1 per month)
2003 “Global Change and You” VIMS mini-school of Marine Science instructor, Oct 4, 2003
2003 Science Museum of Virginia, “Sink or swim: Animal drifters and the carbon cycle”, Sept. 17, 2003
2003 VIMS After Hours Public Lecture Series, “Jellyfish in the Chesapeake Bay and Beyond”, July 31, 2003
2003 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 17, 2003
2003 Blue Crab Bowl, judge/grader, Feb 22, 2003
2003 Talk/ demonstration on zooplankton to VIMS tour groups and school groups (~1 per month)
2002 Marine Science Day at VIMS, Zooplankton Ecology Laboratory Exhibit and Demonstrations, May 18, 2002
2002 Featured speaker, York County Science Fair, Bruton High School, “Deep-Sea Creatures” Jan 30, 2002
2002 Talk/ demonstration on zooplankton to VIMS tour groups and school groups (~1 per month)
2001 Lecture/ demonstration on zooplankton to high school students in VA state University summer environmental science program, June, 2001
1995-2000 Elderhostel presentations. July, 1995 – Dec., 2000. “Introduction to Oceanography” ~ 4 lectures per year
1998 Lecture to English Speaking Union, Hamilton, Bermuda “Creatures of the Deep” June 17, 1998
1997-1998 JASON project. Jan. 1997- Apr. 1998. Host researcher, curriculum consultant
1997 JASON teacher training workshop (plankton) Nov. 14, 1997
1997 Marine Science Day public lecture: “Life in the Deep Sea” Sept. 6, 1997
1997 Lecture to teacher training group (College of Exploration) “Oceanography and plankton ecology” Aug. 18, 1997
1997 Lecture to Conestoga High School: “Oceanography and plankton ecology” June 30, 1997
1997 Lecture to Tolland High School: “Life in the Deep Sea” Apr. 24, 1997

- 1996** Hamilton, Bermuda Rotary Club: “Drifters of the Sea- Plankton from A-Z”. Broadcast live on the radio, with accompanying Royal Gazette article. Nov. 26, 1996
- 1996** Lecture to Sunderman group- “Making a living in the deep sea” June 12, 1996
- 1996** Presentation to Annual Fund committee: “Drifters of the sea: Plankton from A to Z” Apr. 2, 1996