

COLLEEN B. MOUW

Michigan Technological University
Department of Geological and Mining Engineering and Sciences & Great Lakes Research Center
1400 Townsend Drive, Houghton, MI 49931, (906) 487-2795, cbmouw@mtu.edu
<http://www.mouwlab.com/>

EDUCATION

2009	University of Rhode Island Graduate School of Oceanography Ph.D. Oceanography Dissertation: <i>Bio-optical and remote sensing investigation of phytoplankton community size structure</i>	Narragansett, RI
2003	University of Rhode Island Graduate School of Oceanography M.S. Oceanography Thesis: <i>Primary Production Calculations in the Mid-Atlantic Bight, including effects of phytoplankton community size structure</i>	Narragansett, RI
2000	Western Michigan University B.S. Biology, Cum Laude	Kalamazoo, MI

RESEARCH AND PROFESSIONAL EXPERIENCE

Sept. 2012 to present	Michigan Technological University Department of Geological and Mining Engineering and Sciences <i>Assistant Professor of Oceanography</i> <i>Affiliated Assistant Professor – Department of Biological Sciences</i>	Houghton, MI
May 2010 to Aug 2012	University of Wisconsin - Madison Cooperative Institute for Meteorological Satellite Studies Space Science and Engineering Center <i>Assistant Researcher</i> <i>Affiliate – Nelson Institute for Environmental Studies Center for Climatic Research</i>	Madison, WI
January 2009 to April 2010	University of Wisconsin - Madison Space Science and Engineering Center Nelson Institute for Environmental Studies Center for Climatic Research Atmospheric and Oceanic Sciences Department <i>Postdoctoral Research Associate</i>	Madison, WI
September 2001 to January 2009	University of Rhode Island Graduate School of Oceanography <i>Research Assistant</i>	Narragansett, RI
August 2004 to December 2006	University of Massachusetts Dartmouth School of Marine Science & Technology <i>Data Analyst/Technical Associate</i>	New Bedford, MA
May 2000 to April 2001	Kieser & Associates , Environmental Science and Engineering Firm <i>Field Scientist</i>	Kalamazoo, MI
June 1996 to January 1999 May-June 2001	Great Lakes Environmental Research Laboratory (NOAA) Lake Michigan Field Station <i>Research Assistant</i>	Muskegon, MI

TEACHING EXPERIENCE

- 2012 - present **Michigan Technological University** Houghton, MI
 Department of Geological and Mining Engineering and Sciences
 Aquatic Remote Sensing (GE 4670/5670, Spring 2013, 2014)
 Oceanographic Science (GE 3670, Fall 2013)
 Research in Biology (Remote Sensing in Fisheries Oceanography, BL 4000, Fall 2013)
 Fundamentals of Remote Sensing (GE 4250, Spring 2015)
 Career Essentials Seminar (Fall 2015)
 Scientific Communication (GE 5930, Spring 2016)
- Winter 2008 **Valparaiso University** Valparaiso, IN
 Department of Meteorology and Geography
Adjunct Instructor for Oceanographic Science (GEO 490, Winter 2008)
 Developed and implemented the first oceanography course offered at the university. The course was for upper level undergraduates covering interdisciplinary oceanography in an interactive learning manner.
- Fall 2003 **University of Rhode Island** Kingston, RI
Graduate Teaching Assistant for General Oceanography (OCG 401)
 Course for upper level undergraduates covering an overview of biological, physical, chemical and geological aspects of oceanography.
- Fall 2000 **Grand Valley State University** Allendale, MI
Life Sciences Instructor for The Hydrosphere: An Integrated Math/Science Leadership Course and Camp
 Seminar for minority freshmen undergraduates covering topics of scientific method/communication, aquatic ecology, water chemistry and current Great Lakes issues.
- Fall 1999,
 Winter 2000 **Western Michigan University** Kalamazoo, MI
 Department of Mathematics and Statistics
Teaching Assistant for Elementary Statistics and Business Statistics

NEW COURSES DEVELOPED

Aquatic Remote Sensing (Graduate)

Overview of remote sensing techniques used to observe aquatic systems. Integrative approach to physical (temperature, salinity, ice, altimetry, winds) and biogeochemical (aquatic color) remotely sensed properties emphasized from the perspective of oceanographic phenomena observed with examples/application to lakes. Imagery processing/interpretation utilizing space agency processing software and MATLAB.

Oceanographic Science (Upper Undergraduate)

A multidisciplinary integration of the core sub-disciplines of oceanography (physics, chemistry, biology and geology). Hands on laboratory introducing oceanographic observational techniques and analysis. Upper-level science course designed for students in a variety of majors.

Scientific Communication (Graduate)

Effective communication is an essential skill of a successful scientist along with the ability to review colleagues' work critically, but constructively. This course will provide practice and advanced strategies in preparing, critiquing, and evaluating written and oral communication. Lecture and discussion will cover knowing your audience, scientific manuscript and proposal writing, reviewing, critiquing, interpreting feedback, and effective presentations. Students will prepare written and oral communication pieces and critique others' efforts.

Career Essentials Seminar (Graduate)

This bimonthly seminar presents ideas to incite discussion on essential career skills and strategies for advanced graduate students. Topics include mentoring, productivity, self-promotion, learning to lead, negotiation, proposing ideas and networking.

ADVISING

GRADUATE ADVISING

- 2013 – present, **Angela Yu**, Ph.D. student, Michigan Tech University, Geological & Mining Engineering & Sciences
- 2013 – present, **Brice Grunert**, Ph.D. student, Michigan Tech University, Geological & Mining Engineering & Sciences
- 2010 – 2012, **Haidi Chen**, Ph.D. program, University of Wisconsin-Madison, Department of Atmospheric & Oceanic Sciences, co-advisor with Dr. Galen McKinley

GRADUATE STUDENT COMMITTEE MEMBERSHIP

- 2015 – present, **Guoqing Wang**, Ph.D. candidate, University of Massachusetts-Boston, School for the Environment
- 2014 – present, **Karl Meingast**, Ph.D. candidate, Michigan Technological University, Forestry
- 2013 – present, **Anika Kuczynski**, Ph.D. candidate, Michigan Technological University, Department of Civil and Environmental Engineering
- 2012 – 2015, **Haidi Chen**, Ph.D. 2015, University of Wisconsin-Madison, Department of Atmospheric & Oceanic Sciences

UNDERGRADUATE RESEARCH MENTORING

- 2015 Summer/Fall, **Rebekka Guyon**, Michigan Technological University, Geological Engineering
- 2013– 2015, **Ben Kramka**, Michigan Technological University, Geological Engineering
- 2012 – 2013, **John Trochta**, Michigan Technological University, Environmental Engineering & Ecology, MTU SURF recipient (summer 2013)
- 2013 Fall, **Erin Collins**, Michigan Technological University, Forestry and Environmental Science
- 2009, **Kelsey Obenour**, Valparaiso University, Geography and Meteorology Department
- 2009, **Danielle Slotke**, Valparaiso University, Geography and Meteorology Department

PUBLICATIONS (* INDICATES ADVISED STUDENT)

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- [19] Kostadinov, T. S., A. Cabré, H. Vedantham, I. Marinov, A. Bracher, R. Brewin, A. Bricaud, T. Hirata, T. Hirawake, N. Hardman-Mountford, C.B. Mouw, S. Roy, Julia Uitz, (submitted) Inter-Comparison of Phytoplankton Functional Types derived from Ocean Color Algorithms and Earth System Models: Phenology, *Remote Sensing of Environment*.
- [18] Mouw, C.B., A. Barnett, G.A. McKinley, L. Gloege, and D. Pilcher (submitted) Phytoplankton Size Impact on Export Flux in the Global Ocean, *Global Biogeochemical Cycles*.
- 2015 [17] *Trochta, J.T., C.B. Mouw, and T. Moore (2015) Remote sensing of physical cycles in Lake Superior using a spatial-temporal analysis of optical water typologies. *Remote Sensing of Environment*, 171: 149-161, doi: 10.1016/j.rse.2015.10.008.
- [16] Dutkiewicz, S., A.E. Hickman, O. Jahn, W.W. Gregg, C. B. Mouw, M. Follows (2015) Capturing optically important constituents and properties in a marine biogeochemical and ecosystem model, *Biogeosciences*, 12: 4447-4481, doi:10.5194/bg-12-4447-2015.

- [15] Mouw, C.B., S. Greb, D. Aurin, P. DiGiacomo, Z.-P. Lee, M. Twardowski, C. Binding, C. Hu, R. Ma, T. Moore, W. Moses, and S. Craig (2015) Aquatic color radiometry remote sensing of coastal and inland waters: Challenges and recommendations for future satellite missions. *Remote Sensing of Environment*, 160: 15-30, doi: 10.1016/j.rse.2015.02.001.
- [14] Bracher, A., N. Hardman-Mountford, T. Hirata, S. Bernard, R. Brewin, A. Bricaud, V. Brotas, A. Chase, A. Ciotti, J.-K. Choi, L. Clementson, E. Devred, P. DiGiacomo, C. Dupouy, W. Kim, T. Kostadinov, E. Kwiatkowska, S. Lavender, T. Moisan, C. Mouw, S. Son, H. Sosik, J. Uitz, J. Werdell, G. Zheng (2015) Phytoplankton Composition from Space: towards a validation strategy for satellite algorithms, NASA-TM-2015-217528, 40 pp. Greenbelt, MD: NASA Goddard Space Flight Center. (http://www.ioccg.org/groups/PFT-TM_2015-217528_01-22-15.pdf)
- 2014 [13] Clem, S., S. Legg, S. Lozier, and C.B. Mouw (2014) The impact of MPOWIR – A decade of investing in mentoring women in physical oceanography. *Oceanography*, 27(4) supplement: 39-48, doi: 10.5670/oceanog.2014.113.
- [12] Brewin, R., S. Sathyendranath, A. Bricaud, A. Ciotti, E. Devred, T. Hirata, T. Kostadinov, H. Loisel, C. B. Mouw, and J. Uitz. (2014) Chapter 4. Detection of phytoplankton size structure by remote sensing, In, *Phytoplankton Functional Types from Space*. Sathyendranath, S. (Ed.), *Reports of the International Ocean Color Coordinating Group*, No. 15, IOCCG, Dartmouth, Canada.
- [11] Sathyendranath, S., H. Sosik, J. Aiken, S. Alvain, R. Barlow, L. Clementson, N. Hardman-Mountford, T. Hirata, J. Morales, A. Nair, C. B. Mouw and V. Stuart, Chapter 1. General Introduction. (2014) In, *Phytoplankton Functional Types from Space*. Sathyendranath, S. (Ed.), *Reports of the International Ocean Color Coordinating Group*, No. 15, IOCCG, Dartmouth, Canada.
- [10] D'Sa, E. J., J.I. Goes, H. Gomes, & C.B. Mouw (2014) Absorption and fluorescence properties of the eastern Bering Sea in the summer with special reference to the influence of a Cold Pool. *Biogeosciences*, 11, 3225–3244. doi:10.5194/bg-11-3225-2014.
- 2013 [9] Mouw, C.B., *H. Chen, G.A. McKinley, S. Effler, D. O'Donnell, M.G. Perkins, C. Strait (2013) Evaluation and optimization of bio-optical inversion algorithms for remote sensing of Lake Superior's optical properties, *J. Geophysical Research*, 118, 1696-1714, doi: 10.1002/2011JC007690.
- [8] Naik, P., E.J. D'Sa, H. Gomes, J.I. Goés, and C.B. Mouw (2013) Light absorption properties in southeastern Bering Sea during July 2008: analysis, parameterization and absorption budget, *Remote Sensing of Environment* 134, 120-134, doi: 10.1016/j.rse.2013.03.004.
- [7] Wang, J., H. Hu, J. Goes, J. Miksis-Olds, C.B. Mouw, E. D'Sa, H. Gomes, D.R. Wang, K. Mizobata, S. Saitoh, L. Luo (2013) A modeling study of seasonal variations of sea ice and plankton in the Bering and Chukchi Seas during 2007-2008, *J. Geophysical Research*, 118, doi: 10.1029/2012JC008322.
- 2012 [6] Mouw, C.B. and S. Greb (2012) Workshop for Remote Sensing of Coastal and Inland Water; Madison, Wisconsin, 20-22 June 2012, *EOS* 93(39): 375, doi: 10.1029/2012EO390006.
- [5] Mouw, C.B., J.A. Yoder, and S.C. Doney (2012) Impact of phytoplankton community size on a linked global optical and ecosystem model, *J. Marine Systems*, 89: 61-75, doi: 10.1016/j.jmarsys.2011.08.002.
- 2010 [4] Mouw, C.B. and J.A. Yoder (2010) Optical determination of phytoplankton size composition from & prior global SeaWiFS imagery. *J. Geophysical Research*, 115, C12018, doi: 10.1029/2010JC006337.
- [3] Martini, K., E. Frajka-Williams, and C.B. Mouw, (2009) The Pattullo Conference: Building Community Through Mentoring. *Oceanography* 22(1): 180-183, doi: 10.5670/oceanog.2009.26.

[2] Mouw, C.B. and J.A. Yoder (2005) Primary production calculations in the Mid-Atlantic Bight, including effects of phytoplankton community size structure. *Limnology and Oceanography* 50(4): 1232-1243.

[1] Fahnenstiel, G. L., C. Beckmann, S. E. Lohrenz, D. F. Millie, O. M. E. Schofield, and M. J. McCormick (2002) Standard Niskin and Van Dorn bottles inhibit phytoplankton photosynthesis in Lake Michigan. *Verh. Internat. Verein. Limnol.*, 28(1): 376-380.

DATASETS

Mouw, C.B., A. Barnett, G.A. McKinley, L. Gloege, and D. Pilcher (2015) Global Ocean Particulate Organic Carbon flux merged with satellite parameters, doi: 10.1594/PANGAEA.855600, Supplement to: Mouw, C.B., A. Barnett, G.A. McKinley, L. Gloege, and D. Pilcher (submitted) Phytoplankton Size Impact on Export Flux in the Global Ocean, *Global Biogeochemical Cycles*.

CONFERENCE PROCEEDINGS

Davies, J.E., C. B. Mouw, C. C. Moeller (2010) Modification of SeaDAS SWIR atmospheric correction scheme for accurate retrieval of NIR remote sensing reflectance in the river delta regions of the world. IEEE International Geoscience & Remote Sensing Symposium (IGARSS), Honolulu, HI.

FUNDING

EXTERNAL AWARDED

[13] Mouw, C.B. (PI) “Extraordinary Ice on Lake Superior – field observations”, NASA augment request to NNX14AB80G, \$41,494, 7/1/2014 – 12/2/2016.

[12] Mouw, C.B. (PI), J. Goes (Columbia U.), H. Gomes (Columbia U.), E. D’Sa (Louisiana State U.), J. Miksis-Olds (Pennsylvania State U.), J. Wang (NOAA GLERL), Supplement to: Implications of changing sea ice on phytoplankton and zooplankton biomass and community structure in the Bering Sea, NASA Interdisciplinary Research in Earth Science, \$286,946, 6/1/2014 – 7/15/2016.

[11] Legg, S. (Princeton U.) and C.B. Mouw (Co-PI), “Continuation and Enhancement of MPOWIR”, NSF Physical Oceanography, \$430,578, 4/1/2014 – 3/31/2018.

[10] Mouw, C.B. (PI), S. Effler (Upstate Freshwater Institute), Z.P. Lee (U. Massachusetts-Boston), “Parameterizing spectral characteristics of optically active constituents in inland water for improved satellite retrievals”, NASA Remote Sensing of Water Quality, \$667,440, 1/1/2014 – 12/31/2016.

[9] Follows, M. (MIT), S. Dutkiewicz (MIT), C. B. Mouw (Co-PI). “Interpreting ecological variability using remotely observed optical properties and ocean models”, NASA Ocean Biology and Biogeochemistry, \$804,014, 11/15/2012 – 11/14/2016.

[8] Moore, T. (U. New Hampshire), C.B. Mouw (Co-I), M. Twardowski (WET Labs Inc.), and J. Sullivan (WET Labs Inc.), “Development of novel detection and prediction algorithms for *Microcystis* bloom events in the Great Lakes based on remotely sensed data, in-situ measurements, and ecological niche modeling” NIH and NSF Oceans, Great Lakes and Human Health, \$627,655, 9/1/2012 – 2/28/2016.

[7] Mouw, C.B. (PI), S. Greb (WI DNR), P. DiGiacomo (NOAA NESDIS), S. Hook (NASA JPL), C. Hu (U. South Florida), Z.P. Lee (U. Massachusetts-Boston), R. Morrison (U. New Hampshire), “Workshop for Remote Sensing of Coastal and Inland Waters” NASA Topical Workshops, Symposia and Conferences, \$29,999, 1/1/2012 – 12/31/2012.

[6] Miksis-Olds, J.L. (Pennsylvania State U.), S. Parks (Syracuse U.), D. Russell (Pennsylvania State U.) and C.B. Mouw (funded collaborator), “Ocean basin impact of ambient noise on marine mammal detectability, distribution, and acoustic communication.” ONR Young Investigator Program, \$510,000, 4/1/2011 – 12/31/2014.

[5] Greb, S. (WI DNR), C.B. Mouw (Co-PI), and D. O’Donnell (Upstate Freshwater Institute), “Optical properties of Wisconsin lakes and their application to remote sensing of water quality: A pilot study”, Wisconsin Department of Natural Resources, \$29,457, 7/1/11 – 6/21/12.

[4] Mouw, C.B. (PI), S. Lohrenz (U. Massachusetts-Dartmouth), and Z.P. Lee (U. Massachusetts-Boston), “Optical variability and inversion algorithm performance in the Great Lakes in preparation for high quality satellite retrievals from GEO-CAPE”, NASA GEO-CAPE Fiscal Year 2011 Science Studies, \$79,689, 1/1/11 – 12/31/11.

[3] McKinley, G.A. (U. Wisconsin-Madison) and C.B. Mouw (Co-PI), “Connecting phytoplankton cell size to variability in the ocean carbon sink”, NASA Science of MODIS Aqua and Terra,” \$475,762, 11/1/2010 – 1/2/2015.

[2] Mouw, C.B. (PI), “Optical and biogeochemical remote sensing of inland lakes and the Great Lakes”, Wisconsin Department of Natural Resources, \$10,000, 5/1/2010 – 11/30/2010.

[1] Mouw, C.B. (PI), J. Goes (Columbia U.), H. Gomes (Columbia U.), E. D’Sa (Louisiana State U.), J. Miksis-Olds (Pennsylvania State U.), J. Wang (NOAA GLERL), “Implications of changing sea ice on phytoplankton and zooplankton biomass and community structure in the Bering Sea,” NASA Interdisciplinary Research in Earth Science, \$1,495,604, 8/10/2010 – 1/31/2014.

INTERNAL AWARDED

Mouw, C.B. (PI), “Fluorometric Chlorophyll Concentration Determination” A Michigan Tech University Century II Endowment Fund (C2E2) proposal for the purchase of a Turner 10AU Fluorometer. \$4000 from C2E2, \$2500 from the Center for Water and Society, and \$1000 from the Department of Geological and Mining Engineering and Sciences, November 2012.

STUDENT FELLOWSHIPS MENTORED (AWARDED)

Yu, A. “Assessing the spatial distribution and physical drivers of cyanobacterial blooms in Western Lake Erie”, Michigan Sea Grant Graduate Student Fellowship, \$82,754, 2/1/2016 – 1/31/2018.

Grunert, B. “CDOM variability and its influence on phytoplankton distribution in a sub-Arctic Basin”, NASA Earth and Space Science Fellowship, \$90,000, 9/1/2015 – 8/31/2018.

Yu, A. “Assessing the spatial distribution and physical drivers of cyanobacterial blooms in Western Lake Erie”, Michigan Space Grant Graduate Fellowship, \$5,000, 5/1/2015 – 4/30/2016.

Grunert, B. “Impacts of physical drivers on phytoplankton community composition in the Bering Sea”, Michigan Space Grant Graduate Fellowship, \$5,000, 5/1/2014 – 4/30/2015.

Trochta, J.T. “Remote sensing approach in observing environmental interannual variability in Lake Superior”, Michigan Technological University, Summer Undergraduate Research Fellowship (SURF), \$3,300, 5/1/2013 – 8/31/2013.

Chen, H. “Impact of Mesoscale Eddies and Mode Water Circulation On Surface Chlorophyll and Phytoplankton Size Distribution In The North Atlantic”, NASA Earth and Space Science Fellowship, \$90,000, 9/1/2011 – 8/31/2014.

PRESENTATIONS

INVITED – MOUW LEAD SPEAKER

- Oct. 2015 **University of Rhode Island, Graduate School of Oceanography**, Narragansett, RI
Invited seminar, “Phytoplankton Cells to Ecosystems: Remote Sensing from the Globe to the Coast”
- Oct. 2015 **Trait-based Approaches to Ocean Life**, Waterville Valley, NH
Invited talk, “Approaches for detecting phytoplankton composition from space-based sensors”
- Sept. 2015 **Louisiana State University, School of the Coast and Environment**, Baton Rouge, LA
Invited seminar, “Phytoplankton size variability in the global ocean and its impact on export flux”
- June 2015 **International Ocean Color Science Meeting**, San Francisco, CA
Invited talk, session report, “Remote Sensing of Phytoplankton Composition – Possibilities, Applications and Future Needs”
- Apr. 2015 **University of Washington, School of Oceanography**, Seattle, WA
Invited seminar, “Phytoplankton Ecology from Space”
- Mar. 2015 **EPA Lake Superior Environmental Monitoring Collaborative**, Michigan Technological University, Houghton, MI
Invited talk, “Optical Observations and Visible Remote Sensing of Lake Superior”
- Dec. 2014 **University of Wisconsin-Milwaukee, School of Freshwater Sciences**, Milwaukee, WI
Invited seminar, “Remote Sensing of Phytoplankton Variability: from the Global Ocean to the Great Lakes”
- Oct. 2014 **IOCCG Phytoplankton Composition from Space Workshop**, Portland, ME
Invited talk, “A User’s Guide for Satellite Remote Sensing of Phytoplankton Functional Types”
- May 2014 **NASA Ocean Color Research Team Meeting**, Silver Springs, MD
Invited talk, “Connecting Phytoplankton Cell Size to Export Flux in the Global Ocean”
- Apr. 2014 **University of Minnesota-Duluth, Large Lakes Observatory**, Duluth, MN
Invited seminar, “Phytoplankton Cells to Ecosystems: from the Global Ocean to the Great Lakes”
- Mar. 2014 **Great Lakes Workshop on Remote Sensing of Water Quality**, Cleveland, OH
Invited talk, “Workshop Summary: Optical Remote Sensing of Coastal and Inland Waters: Challenges and Recommendations”
- Feb. 2014 **AAAS 2014 Symposium**, Chicago, IL
Invited talk, “New Approaches in Satellite Remote Sensing of Ecosystem Change in the Great Lakes”
- Jan. 2014 **Michigan Technological University**, Great Lakes Fisheries Commission, Lake Superior Technical Committee Meeting, Houghton, MI
Invited talk, “Optics and Remote Sensing of Lake Superior”
- Dec. 2012 **Michigan Technological University**, Undergraduate Research Scholars, Houghton, MI
Invited talk, “Aquatic Optics and Remote Sensing”
- Dec. 2012 **Michigan Technological University**, Environmental Engineering Seminar Series, Houghton, MI
Invited talk, “Aquatic Remote Sensing: from Cell to Ecosystem”
- Nov. 2012 **Michigan Technological University**, Department of Geological and Mining Engineering and Sciences, Houghton, MI
Invited seminar, “Oceanography: A View From Above”
- Nov. 2012 **Michigan Technological University**, Biological Sciences Seminar Series, Houghton, MI
Invited seminar, “Phytoplankton Groups in the Global Ocean: Where, When and Why”
- Sep. 2012 **Michigan Technological University**, Presidential Council of Alumnae, Houghton, MI
Invited talk, “Aquatic Optics and Remote Sensing”
- Apr. 2012 **University of Hawai’i**, Monoa, HI
Invited seminar, “Satellite Detection of Phytoplankton Groups: Trends in the Global Ocean”
- Feb. 2012 **Michigan Technological University**, Houghton, MI
- Jan. 2012 **University of Minnesota**, St. Paul, MN
Invited talk, “Remote Sensing of Lake Superior: Chlorophyll, CDOM and Ice”
- Dec. 2011 **Grand Valley State University, Annis Water Resources Institute**, Muskegon, MI
Invited seminar, “Remote sensing and optical variability of the Great Lakes and inland lakes”

- Dec. 2011 **LTERR North Temperate Lakes Science Meeting**, Madison, WI
Invited talk, “Optical variability and remote sensing of Wisconsin inland lakes”
- Nov. 2011 **Hokkaido University**, Sapporo, Japan
Invited talk, “Phytoplankton cell size in the global ocean: an absorption approach through look-up-tables”
- Dec. 2010 **Wisconsin Department of Natural Resources**, Madison WI
Invited talk, “Remote Sensing of Wisconsin’s Great and Inland Lakes”
- Nov. 2010 **University of Wisconsin-Milwaukee, School of Freshwater Science**, Milwaukee, WI
Invited seminar, “Aquatic Optics and Remote Sensing: Oceans to Lakes”
- Feb. 2010 **LTERR North Temperate Lakes Science Meeting**, Madison, WI
Invited talk, “Remote Sensing of the Yahara Lakes with MERIS”
- Sep. 2009 **NASA MPOWIR speaker series**, Goddard Space Flight Center, Greenbelt, MD
Selected seminar speaker, “Phytoplankton cell size retrieval from SeaWiFS global imagery: optical determination and ecological implications”
- Jul. 2009 **GOES-R Risk Reduction Annual Review Meeting**, College Park, MD
Invited talk, “GOES high temporal SST merged with MODIS ocean color observations for the Great Lakes”
- May 2009 **NASA Ocean Color Research Team Meeting**, New York, NY
Invited talk, “Phytoplankton Community Size Structure in the Global Ocean”
- Apr. 2009 **University of Wisconsin-Madison**, Dept. Atmospheric and Oceanic Sciences, Madison, WI
- Mar. 2009 **University of Wisconsin-Madison**, Space Science Engineering Center, Madison, WI
Invited seminar, “Phytoplankton community size structure in the global ocean: optical determination and ecological implications”
- Mar. 2009 **University of Wisconsin-Madison**, North Temperate Lakes LTER, Madison, WI
Invited talk, “Phytoplankton Cell Size in the Global Ocean”
- Nov. 2007 **University of Wisconsin-Madison**, Dept. Atmospheric & Oceanic Sciences, Madison, WI
Invited seminar, “Optical Determination of Phytoplankton Size Distribution from Satellite”
- Feb. 2007 **Valparaiso University**, Department of Meteorology and Geography, Valparaiso, IN
Invited seminar, “Phytoplankton: from Cell to Satellite”

INVITED – MOUW CONTRIBUTING AUTHOR

- Apr. 2015 **NASA Carbon Cycle and Ecosystem Joint Science Workshop**, College Park, MD
Talk, Dutkiewicz, S. T. Kostadinov, T. Moore, C. B. Mouw, B. Muhling, M. Oliver, C. Rousseaux, “Characterizing Marine Habitats and Their Changes using Satellite Products and Numerical Models”
- Mar. 2015 **EPA Lake Superior Environmental Monitoring Collaborative**, Michigan Technological University, Houghton, MI
Talk, Meingast, K., E. Kane, C.B. Mouw, “Investigating optical properties and dissolved organic matter composition in near-shore Lake Superior with emphasis on the spring freshet”

CONTRIBUTED (SINCE 2010, * DENOTES ADVISED STUDENTS,)

- Feb. 2016 **Ocean Sciences**, New Orleans, LA
Oral, Mouw, C.B., A. Barnett, G. McKinley, L. Gloege, D. Pilcher, “Phytoplankton Size Impact on Export Flux in the Global Ocean”
- Feb. 2016 **Ocean Sciences**, New Orleans, LA
Oral, A. Barnett, Mouw, C.B., “Global shifts in phytoplankton community size structure in response to environmental controls”
- Feb. 2016 **Ocean Sciences**, New Orleans, LA
Poster, *Grunert, B., Mouw, C.B., D’Sa, E., Goes, J., Barnett, A. “Quantifying radiometric sensitivity to ranges of CDOM absorption, spectral slope and phytoplankton composition in Arctic and sub-Arctic environments”

- Feb. 2016 **Ocean Sciences**, New Orleans, LA
Gloege, L., G. McKinley, C.B. Mouw, A. Barnett, “A Global Evaluation of Model Parameterizations for Carbon Export and Remineralization”
- Feb. 2016 **Ocean Sciences**, New Orleans, LA
Poster, *Yu A., C.B. Mouw, T. Moore, M. Twardowski, J. Sullivan, A. Barnett, N. Stockley, “Assessing the spatial and temporal distribution of harmful algal blooms in Western Lake Erie”
- Feb. 2016 **Ocean Sciences**, New Orleans, LA
D’Sa, E. J. Goes, C.B. Mouw, “CDOM optical properties and connectivity in the western Gulf of Alaska, Unimak Pass and southeastern Bering Sea during a cold year”
- Oct. 2015 **Trait-based Approaches to Ocean Life**, Waterville Valley, NH
Poster, C.B. Mouw, A. Barnett, G. McKinley, “Utilizing satellite estimates of phytoplankton size to understand global export flux variability”
- Oct. 2015 **Trait-based Approaches to Ocean Life**, Waterville Valley, NH
Poster, Kostadinov, T., A. Cabré, H. Vedantham, I. Marinov, A. Bracher, R. Brewin, A. Bricaud, N. Hardman-Mountford, T. Hirata, A. Fujiwara, C. B. Mouw, S. Roy, J. Uitz, “Intercomparison of Phytoplankton Phenology from Phytoplankton Functional Types Satellite Algorithms and Earth System Models”
- Sep. 2015 **GEO-CAPE Biennial Community Workshop**, Durham, NC
Poster, C. Mouw, T. Moore, A. Yu, A. Barnett, J. Sullivan, M. Twardowski, N. Stockley, “High temporal resolution observations of harmful algal bloom formation and senescence in Western Lake Erie”
- June 2015 **International Ocean Color Science Meeting**, San Francisco, CA
Poster, C.B. Mouw, A. Barnett, G. McKinley, “Phytoplankton size impact on export flux in the global ocean”
- June 2015 **International Ocean Color Science Meeting**, San Francisco, CA
Poster, Grunert*, B, C.B. Mouw, A. Barnett, J. Goes, E. D’Sa, “Role of in water light field on phytoplankton composition in the eastern Bering Sea” ([eposter](#))
- June 2015 **International Ocean Color Science Meeting**, San Francisco, CA
Poster, T. Moore, T. Johengen, C. Mouw, S. Ruberg, J. Sullivan, M. Twardowski, D. Palladino, N. Stockley, D. Stuart, A. Yu, “Evolution of optical signatures in western Lake Erie as related to HAB formation and senescence”
- June 2015 **International Ocean Color Science Meeting**, San Francisco, CA
Poster, Kostadinov, T.S., A. Cabré, H. Vedantham, I. Marinov, A. Bracher, R. Brewin, A. Bricaud, N. Hardman-Mountford, T. Hirata, A. Fujiwara, C. Mouw, S. Roy, J. Uitz, “Phytoplankton Phenology from Ocean Color Algorithms and Earth System Models” ([eposter](#))
- May 2015 **International Association of Great Lakes Research (IAGLR) Conference**, Burlington, VT
Poster, *Yu, A., C.B. Mouw, T. Moore, M. Twardowski, J. Sullivan, N. Stockley, “Assessing spatial and temporal distribution of harmful algal blooms in Western Lake Erie”
- May 2015 **International Association of Great Lakes Research (IAGLR) Conference**, Burlington, VT
Oral, Moore, T., C.B. Mouw, M. Twardowski, J. Sullivan, N. Stockley, A. Yu*, A. Barnett, “Improving detection and understanding of HABs in western Lake Erie using new in-water instrumentation”
- April 2015 **Harmful Algal Bloom Global Solutions Workshop**, Bowling Green, OH
Poster, Moore, T., C.B. Mouw, J. Sullivan, M. Twardowski, S. Ruberg, T. Johengen, A. Barnett, D. Palladino, N. Stockley, D. Stuart, A. Yu*, “Evolution of optical signatures in western Lake Erie as related to HAB formation and senescence”
- Mar. 2015 **World Water Day**, Michigan Technological University, Houghton, MI
- Feb. 2015 **Graduate Research Colloquium**, Michigan Technological University, Houghton, MI
Poster, *Grunert, B., C.B. Mouw, “Hydrographic structuring of the eastern Bering Sea phytoplankton community”

- Oct. 2014 **Ocean Optics**, Portland, ME
Poster, Moore, T., C.B. Mouw, J. Sullivan, M. Twardowski, S. Ruberg, T. Johengen, “Optical characteristics of harmful algal blooms in western Lake Erie: impacts on bio-optical algorithms and ocean color remote sensing”
- Oct. 2014 **Ocean Optics**, Portland, ME
Oral, Goes, J., E. D’Sa, H. Gomes, J. Miksis-Olds, C.B. Mouw, J. Wang, H. Hu, “Influence of the Bering Sea in Arctic ecosystems experiencing rapid reductions in sea-ice”
- Mar. 2014 **Oceans and Human Health Grantees Meeting**, La Jolla, CA
Oral, Moore, T., C.B. Mouw, M. Twardowski, and J. Sullivan, “Development of novel detection and prediction algorithms for Microcystis blooms”
- Feb. 2014 **Ocean Sciences**, Honolulu, HI
Poster, *Trochta, J.T. and C.B. Mouw, “Observing interannual variability of satellite-derived properties in Lake Superior with the use of fuzzy clustering”
- Feb. 2014 **Ocean Sciences**, Honolulu, HI
Poster, Barnett, A., C.B. Mouw and G.A. McKinley, “The role of satellite estimated phytoplankton size structure in export flux” ([eposter](#))
- Feb. 2014 **Ocean Sciences**, Honolulu, HI
Poster, *Grunert, B., V. Klump, and C.B. Mouw, “The role of meteorological forcing on the persistence and mixing of distinct water masses in Green Bay, Lake Michigan”
- Feb. 2014 **Ocean Sciences**, Honolulu, HI ([eposter](#))
Poster, *Chen, H., G.A. McKinley, and C.B. Mouw, “Observed dominance of sub-mesoscale fronts to oligotrophic chlorophyll”
- Jul. 2013 **Ocean Carbon and Biogeochemistry Workshop**, Woods Hole, MA
Poster, *Chen, H.A., G.A. McKinley and C.B. Mouw, “Observed dominance of submesoscale fronts to subtropical chlorophyll”
- Jun. 2013 **International Association of Great Lakes Research (IAGLR) Conference**, West Lafayette, IN
Oral, Mouw, C.B. and S. Greb, “Status and Recent Recommendations for Remote Sensing of Coastal and Inland Waters”
- Jun. 2013 **International Association of Great Lakes Research (IAGLR) Conference**, West Lafayette, IN
Poster, Moore, T., C.B. Mouw, J. Sullivan, M. Twardowski, S. Bradt, “A framework for selecting and blending retrievals from bio-optical algorithms in lakes and coastal waters based on remote sensing reflectance for water quality assessment”
- May 2013 **International Ocean Color Meeting**, Darmstadt, Germany
Poster, C.B. Mouw, “Phytoplankton size variability in the global ocean”
- May 2013 **International Ocean Color Meeting**, Darmstadt, Germany
45th International Liège Colloquium: Primary Production in the Ocean, Liège, Belgium
Poster, Chen, H., G.A. McKinley, C.B. Mouw, “Observed dominance of submesoscale fronts to oligotrophic chlorophyll”
- May 2013 **International Ocean Color Meeting**, Darmstadt, Germany
Poster, D’Sa E. J., G.I. Goés, P. Naik, C. B. Mouw, H. do R. Gomes, “Summer bio-optical properties in the southeastern Bering Sea”
- Mar. 2013 **Wayne State University**, Biogeochemistry of the Great Lakes workshop, Detroit, MI
Oral, “Algorithm Development in Optically Complex Systems”
- Feb. 2013 **ASLO**, New Orleans, LA
Poster, D’Sa, E. J. Goes, P. Naik, C.B. Mouw, H.R. Gomes, “Summer CDOM characteristics in the southeastern Bering Sea using excitation-emission matrix fluorescence and PARAFAC analysis”
- Dec. 2012 **AGU**, San Francisco, CA
Poster, *Chen, H., C.B. Mouw, G.A. McKinley, “Mesoscale and sub-mesoscale signatures of chlorophyll and phytoplankton size structure along multi-satellite identified eddy footprint”

- Oct. 2012 **Ocean Optics**, Glasgow Scotland
Poster, Hirata, T., N. Hardman-Mountford, R.J.W. Brewin, A. Bracher, C. Mouw, T.S. Kostadinov, L. Clementson, R. Barlow, T. Hirawake, S. Alvain, J. Uitz, A. Fujiwara, A. Ciotti, S. Shang, S. Lavender, K. Suzuki, A. McMinn, E. Devred, H. Murakami, S. Takao, Y. Arakawa, T. Kobayashi, S. Wang, “Satellite PFT Algorithm Intercomparison”
- Jun. 2012 **Workshop for Remote Sensing of Inland and Coastal Waters**, University of Wisconsin-Madison, Madison WI
Poster, *Chen, H., C.B. Mouw, G.A. McKinley, “Tracking eddies using multiple satellite products and the observed mesoscale signatures in SST and Chlorophyll”
- Mar. 2012 **CCR/SAGE Symposium**, University of Wisconsin-Madison, Madison, WI
Oral, Mouw, C.B., “Aquatic Color Remote Sensing” (Ignite)
- Feb. 2012 **Ocean Sciences**, Salt Lake City, UT
Oral, Mouw, C.B., *H. Chen, G.A. McKinley, “Trends in satellite-derived chlorophyll concentration and optical properties in relation to changing ice on Lake Superior”
- Feb. 2012 **Ocean Sciences**, Salt Lake City, UT
Poster, D’Sa, E. J., J. I. Goés, P. Naik, C. B. Mouw, H. do R. Gomes, “CDOM absorption and fluorescence optical properties in the southeastern Bering Sea during summers of 2008 and 2009”
- Feb. 2012 **Ocean Sciences**, Salt Lake City, UT
Poster, Naik, P. E. J. D’Sa, H. do R. Gomes, J. I. Goés, C. B. Mouw, “Modeling of remote-sensing reflectance and diffuse attenuation coefficient in the southeastern Bering Sea”
- Oct. 2011 **NASA Carbon Cycle and Ecosystems Joint Science Workshop**, Alexandria, VA
Poster, D’Sa, E., J. Goes, P. Naik, C. Mouw, H. Gomes, “CDOM optical properties in the southeastern Bering Sea during summer”
- Jun. 2011 **IAGLR**, Duluth, MN
Oral, Mouw, C.B., G.A. McKinley and *H. Chen, S. Effler, D. O’Donnell, M.G. Perkins, C. Strait, R.W. Sterner, “Evaluation and Optimization of Bio-Optical Inversion Algorithms for Remote Sensing of Lake Superior’s Optical and Biogeochemical Properties”
- May 2011 **NASA MODIS Science Team Meeting**, Adelphi, MD
Oral, Mouw, C.B. “Phytoplankton cell size from ocean color imagery: connection to variability in the ocean carbon sink”
- Feb. 2011 **ASLO**, San Juan, Puerto Rico
Oral, Mouw, C.B., G.A. McKinley and *H. Chen, “Evaluation and Optimization of Bio-Optical Inversion Algorithms for Remote Sensing of Lake Superior’s Optical and Biogeochemical Properties”
- Jul. 2010 **International Geoscience and Remote Sensing Symposium**, Honolulu, HI
Poster, Davies, J., C.B. Mouw, and C.C. Moeller. “Modification of SeaDAS SWIR atmospheric correction scheme for accurate retrieval of NIR remote sensing reflectance in the river delta regions of the world”
- Jun. 2010 **ASLO**, Santa Fe, NM
Poster, Beversdorf, L.J., T.R. Miller, C.B. Mouw, K.D. McMahon. “Monitoring toxic cyanobacteria: integrating diverse disciplines for the development of predictive water quality tools”
- May 2010 **MPOWIR Pattullo Conference**, Charleston, SC
Oral, Mouw, C.B., “Aquatic optics and remote sensing: oceans to lakes”
- May 2010 **Ecology of Lake Superior**, AEHMS, Duluth, MN
Oral, Mouw, C.B. and G. A. McKinley “Remote sensing of Lake Superior’s optical and biological properties with MERIS”
- May 2010 **Ecology of Lake Superior**, AEHMS, Duluth, MN
Oral, McKinley, G.A., V. Bennington, N. Atilla, A. Desai, C. Mouw, N. Urban, V. Vasys, C. Wu. “Carbon cycle variability in Lake Superior: Physical drivers and impacts on the regional carbon budget”

- May 2010 **Ecology of Lake Superior**, AEHMS, Duluth, MN
Oral, Bennington, V., G.A. McKinley, N. Urban, C. Wu, A. Desai, C. Mouw. “Modeling the impact of river inputs on carbon fluxes of Lake Superior, Ecology of Lake Superior”
- Feb. 2010 **Ocean Sciences Meeting**, Portland, OR
Poster, Mouw, C.B. and G.A. McKinley. “Satellite Remote Sensing of Lake Superior with MERIS”
- Feb. 2010 **Ocean Sciences Meeting**, Portland, OR
Poster, Davies, J.E., C.B. Mouw, and C.C. Moeller. “Atmospheric correction of MODIS observations in the coastal zone for suspended sediment concentration retrievals”

HONORS AND AWARDS

- 2009 ASLO Early Career Travel Award to attend the 2010 Ocean Sciences meeting
- 2009 NASA MPOWIR (Mentoring Physical Oceanography Women to Increase Retention) selected speaker
- 2009 IOCCG Travel Award (administered through GKSS) to attend training course in Germany
- 2007 Graduate School of Oceanography Alumni Fellowship, University of Rhode Island (\$14,000)
- 2005-2008 NASA Earth and Space Science Fellowship (\$72,000 over 3 years)
- 2005 Ricci Award, Graduate School Oceanography, University of Rhode Island (\$3,000)
- 2004-2005 Rhode Island Space Grant/Vetlesen Climate Change Program Fellowship (\$40,000, 1 year)
- 2000 Hazel Wirick Award in Botany, Biological Sciences Department, Western Michigan University (\$1,200)
- 1999-2000 Golden Key National Honors Society
- 1999 National Science Foundation, Research Experience for Undergraduates (REU)

SERVICE AND LEADERSHIP

INTERNATIONAL

- 9/2015 – 10/2015 **Panelist**, Contributions to climate science and biogeochemical cycles session, Trait-based Approaches to Ocean Life Workshop, Waterville Valley, NH, October 5-8, 2015. (<http://sites.google.com/site/traitworkshop2015/home>)
- 8/2015 – 11/2017 **International Ocean Colour Coordinating Group Working Group member**, Ocean Colour Applications for Biogeochemical, Ecosystem and Climate Modeling
- 10/2014 – 6/2015 **Session Chair**, “Remote Sensing of Phytoplankton Composition – Possibilities, Applications and Future Needs”, International Ocean Color Science Meeting, San Francisco, CA, June 15-18, 2015 (<http://iocs.ioccg.org/program/iocs-2015-presentations/>)
- 1/2015 – 10/2015 **Steering Committee Member**, Trait-based Approaches to Ocean Life Workshop, Waterville Valley, NH, October 5-8, 2015. (<https://sites.google.com/site/traitworkshop2015/home>)
- Winter 2014 **Invited reviewer**, United Nations World Ocean Assessment (<http://www.worldoceanassessment.org/>)
- 2011 – present **International Intercomparison Team**, Satellite Determination of Phytoplankton Functional Types (<http://pft.ees.hokudai.ac.jp/satellite/index.shtml>)

NATIONAL

- Since Apr. 2014 **Co-Chair of MPOWIR** (Mentoring Physical Oceanography Women to Increase Retention, <http://mpowir.org/>)
- Since Nov. 2013 **Mentor Group Leader, MPOWIR**
- Feb. 2016 **MPOWIR Ocean Sciences Town Hall**, “MPOWIR – Past, present and future”, Chair and Organizer
- Feb. 2014 **MPOWIR Ocean Sciences Town Hall**, “Dual Careers: Challenges and Opportunities”, Chair and Organizer
- Jun. 2012 **NASA Workshop for Remote Sensing of Coastal and Inland Waters**, Co-Chair, Organizer and Host
- Since Jan. 2011 **NASA MODIS Science Team member**

Since Mar. 2010 **NASA GEO-CAPE** Ocean Science and Interdisciplinary Science Working Group member
 Dec. 2009 **NOAA Science on the Sphere (SOS)** - Provided global phytoplankton cell size imagery utilized on the SOS visualization display. The imagery went to the 2009 United Nations Climate Change Conference (Copenhagen), has been integrated into presentations by the U. Wisconsin-Madison, Space Science Engineering Center, and added to NOAA's SOS website.

INSTITUTIONAL

2015-2016 **Michigan Tech University, Department of Geological and Mining Engineering & Sciences**
 Hiring Search Committee member, departmental faculty hiring
 Fall 2015 **Michigan Tech University**
 Dual Career advisory committee to the Provost
 Fall 2015 **Michigan Tech University**
 Dual Career and Programs & Interventions AMP-UP matrix participant
 Fall 2015 **Michigan Tech University**
 Faculty start-up and space data task force member, ADVANCE proposal planning team
 Fall 2014/2015 **Michigan Tech University, Department of Geological and Mining Engineering & Sciences**
 Lead, Departmental Curriculum Assessment
 2014 – 2015 **Michigan Tech University, Earth, Planetary & Space Sciences Institute Advisory Council**
 Department of Geological and Mining Engineering & Sciences representative
 2012 – present **Michigan Tech University, Department of Geological and Mining Engineering & Sciences**
 Graduate Committee
 Fall 2013 **Michigan Tech University, Department of Geological and Mining Engineering & Sciences**
 Teaching Space Committee
 Fall 2012 **Michigan Tech University, Great Lakes Research Center**, Implementation Committee
 4/2013-10/2015 **Michigan Tech University, Great Lakes Research Center**, Executive Committee, Marine
 Technology and Engineering representative
 March 2013 **Michigan Tech University, Vice President for Research Office**, Summer Undergraduate
 Research Fellowship Proposal Reviewer
 2012- 2013 **Michigan Tech University, Earth Systems Science Program**, Organizer, and co-author of new
 program curriculum proposal
 Nov. 2010 **University of Wisconsin-Madison, Satellites See Wisconsin**, public exhibit at the Dane County
 airport, Madison WI, Provided satellite imagery of Lake Superior and Lake Mendota

Peer Review – Proposals

Jan. 2016 NSF, Graduate Research Fellowship Program, panelist
 Nov. 2015 NASA, New Investigator Program, mail reviewer
 Oct. 2015 NSF, Geography and Spatial Sciences, mail reviewer
 June 2015 Wisconsin Sea Grant, mail reviewer
 June 2015 Belgian Science Policy Office, STEREO III, mail reviewer
 May 2015 NASA Ocean Biology and Biogeochemistry, mail reviewer
 July 2014 NASA Applied Sciences, Water Resources, panelist
 Dec. 2013 NASA Carbon Cycle Science, Terrestrial-Aquatic Interfaces, panelist
 Aug. 2013 NASA Airborne Instrument Technology Transition, mail reviewer
 May 2013 NASA Development & Testing of Potential Indicators -National Climate Assessment, panelist
 July 2012 Maine Space Grant Consortium, mail reviewer
 2011 NASA Ocean Biology and Biogeochemistry, mail reviewer
 2009 NSF Biological Oceanography, mail reviewer

Peer Review – Manuscripts (2013 impact factor noted)

Applied Optics (1.649)	Global Biogeochemical Cycles (4.528)
Biogeosciences (3.753)	IEEE Geoscience & Remote Sensing Letters (1.809)
Deep Sea Research (2.825)	IEEE J. Selected Topics in Applied Earth Obs. & Remote Sensing (3.026)
Estuaries and Coasts (2.245)	International J. Remote Sensing (1.359)
Fundamental and Applied Limnology (1.000)	

J. Applied Meteorology and Climatology (2.02)	Methods in Oceanography (3.615)
Journal of Geophysical Research (3.44)	Nature Geoscience (11.668)
Journal of Great Lakes Research (1.771)	Ocean Science (2.164)
Journal of Marine Systems (2.476)	Optics Express (3.525)
Journal of Plankton Research (2.263)	Remote Sensing of Environment (4.769)
Limnology and Oceanography (3.615)	Science of the Total Environment (3.163)
Marine Ecology Progress Series (2.55)	

CONTINUED EDUCATION ACTIVITIES

Oct. 2013/2015	MPOWIR Pattullo Conference , Warrenton, VA Co-organizer, co-facilitator and senior mentor
June 2013	National Effective Teaching Conference , Atlanta, GA Attended to improve planned course teaching methods and approaches
Aug. 2009	IOCCG Inversion Procedures in Ocean-Colour Remote Sensing GKSS Research Center, Lauenburg, Germany Selected to attend training workshop
2005 - 2008	Woods Hole Oceanographic Institution , Woods Hole, MA Guest Student, Marine Chemistry and Geochemistry Department
Jun. 2008	Teaching Weather and Climate Using Laboratory Experiments , Chicago, IL Participant, University of Chicago
May 2008	MPOWIR Pattullo Conference , Charleston, SC Selected to attend the first MPOWIR (Mentoring Physical Oceanography Women to Increase Retention) conference.
May 2010	Invited to participate as returning mentor
Since Aug. 2007	Earth Science Women's Network (ESWN) member
Aug. 2007	Preparing for an Academic Career in the Geosciences University of Wisconsin-Madison Selected to attend a workshop for graduate students and postdoctoral fellows
Aug. 2005	NASA Biodiversity Ecological Forecasting Team Meeting , Washington, D.C. Invited to attend
Jul. 2004	Radiative Transfer and Inversions of Ocean Color Remote Sensing University of Maine, Darling Marine Center, Walpole, ME Selected to attend an intensive two-week course for graduate students.
Apr. 2004	"The Scientist as Citizen": Communicating Science to the Media and the Public University of Rhode Island, Graduate School of Oceanography, Narragansett, RI Participant
May 2000	Ocean Optics and Radiative Transport in Atmosphere and Ocean Bigelow Laboratory for Ocean Science, West Boothbay Harbor, ME Selected to attend a two-week course for graduate students and professionals
Summer 1999	Summer Undergraduate Research Fellowship Program in Oceanography University of Rhode Island, Graduate School of Oceanography, Narragansett, RI Selected to attend undergraduate summer research program.

PROFESSIONAL AFFILIATION

Association for the Sciences of Limnology and Oceanography (ASLO)
 The Oceanography Society (TOS)
 American Geophysical Union (AGU)
 International Association for Great Lakes Research (IAGLR)
 American Association for the Advancement of Science (AAAS)