

CHRISTINA L. (STOVER) WIEDERWOHL

Department of Oceanography
Texas A&M University
3146 TAMU
College Station, TX 77843
chrissyw@tamu.edu

EDUCATION

Doctor of Philosophy in Oceanography, Dec. 2012

Texas A&M University, College Station, TX USA

Concentration: Physical Oceanography

Dissertation Title: The Ross Sea response to evolving ocean-ice interactions in a changing climate.

Chair: Dr. Alejandro H. Orsi

Master of Science in Oceanography, May 2006

Texas A&M University, College Station, TX USA

Concentration: Physical Oceanography

Thesis Title: A new account of Ross Sea waters: Characteristics, volumetrics, and variability.

Chairs: Dr. Alejandro H. Orsi and Dr. Achim Stoessel

Bachelor of Science in Marine Science, *magna cum laude*, Dec. 2002

Coastal Carolina University, Conway, SC USA

Minors: Chemistry, Biology

PROFESSIONAL APPOINTMENTS

Instructional Associate Professor, Oceanography, Texas A&M Univ., Sept. 2018-present

Instructional Assistant Professor, Oceanography, Texas A&M Univ., Oct. 2013-Aug. 2018

Postdoctoral Research Associate, Oceanography, Texas A&M Univ., Dec. 2012 – Oct. 2013

Graduate Research Assistant, Oceanography, Texas A&M Univ., Sept. 2004 – Dec. 2012

Graduate Teaching Assistant (5 semesters), Ocng., Texas A&M Univ., Sept. 2003 – Dec. 2010

FUNDED GRANTS

2017: Wiederwohl, C.L. (P.I.), K. Shamberger (co-P.I.), and S. Yvon-Lewis (co-P.I.) Gulf Coast Stewards of Tomorrow: Working Towards a Sustainable Future Through At-Sea Learning for South Texas Middle and High School Students; *Environmental Protection Agency-Gulf of Mexico Program Grant # 12461398*; \$149,851

2016: Wiederwohl, C.L. (P.I.) Core curriculum technology enhancement grant for OCNG 252; Texas A&M University; \$62,777

PUBLICATIONS

Peer Reviewed

Orsi, A.H. and **Wiederwohl, C.L.** (2009). A recount of Ross Sea waters. *Journal of Deep-Sea Research Part II* (56), 778-795.

eBooks

Wiederwohl, C.L. (2015). Oceanography 252 Laboratory Manual. Provided for free via TAMU learning management system.

Technical Reports

Wiederwohl, C.L. and Orsi, A.H. (2010). ERS mooring deployment cruise: Atmosphere-Ice-Ocean interactions in the Eastern Ross Sea expedition aboard Oden in the south Pacific Ocean Feb.-Mar. 2010. Cruise Report: TAMU Reference 10-02-T.

Orsi, A.H., **Wiederwohl, C.L.**, Walpert, J., Reta, R., Pisoni, J.P., Schreiner, K.M., Puigdefabregas, J. (2009). Antarctic Crossroad Of Slope Streams: Expedition aboard the B.O. Puerto Deseado in the Southwest Atlantic Feb.-Mar 2009. Cruise Report: TAMU Reference 09-01-T.

COURSES TAUGHT AT TAMU

OCNG 456/656 (was 489/689) – MATLAB Programming Laboratory for Ocean Sciences - Fall 2015 - Fall 2016*, Fall 2017

Catalog Description: Computation techniques for oceanographic data processing using MATLAB; focus on the analysis of oceanographic-related data sets and real-world oceanographic applications; individual data sets analyzed.

OCNG 251 – Oceanography - Fall 2013, Fall 2014-Spring 2016 (classroom); Fall 2016 (online); Fall 2017 (classroom major's section)

Catalog Description: Overview of the ocean environment; interrelation of the sub-disciplines of ocean sciences; importance of the oceans to human beings; human impact on the oceans.

OCNG 252 – Oceanography Lab (Honors section) -Spring 2014, Fall 2014- Fall 2015

Catalog Description: Hands-on laboratory experiments and exercises demonstrating principles of ocean sciences; emphasis on the unique interdisciplinary nature of the ocean and current ocean issues relevant to today's society.

GEOS 401/601 – Earth's Polar Regions: Science, Society, and Discovery - Spring 2014*

Catalog Description: Disciplines and topics that define modern polar science in the north and south; includes history of the Polar Regions, polar geosciences, major polar scientific projects, and special topics; participate as individuals and teams in education, outreach and science projects.

*indicates semesters where course was co-taught

SERVICE AND LEADERSHIP POSITIONS**Department of Oceanography**

Assistant Department Head for Engagement and Graduate Affairs 2018-present
Graduate Director for the Department of Oceanography graduate programs; oversee all outreach and community engagement

Recruiting and Admission Committee (RAC) – chair 2014-present
Committee duties include recruiting at the graduate and undergraduate level; review of applications for admissions M.S., Ph.D., and M.O.S.T. degree programs; competitively awarding all departmental scholarships for new and continuing students

Advisory Committee – member 2014-present
Committee comprised of all departmental committee chairs. Committee duties include selection of departmental graduate and undergraduate excellence awards; review of departmental SOPs.

Curriculum Committee – member 2013-present
Committee duties include review of all new course proposals; administration of the qualifying exam

Graduate Learning Community – co-organizer 2016-present
Professional development workshop series for all department of Oceanography graduate students.

Teaching Assistant Supervisor 2013-present
Supervise all Graduate Teaching Assistants and Graduate Lecturers; Serve as instructor of record for all laboratory sections taught by a TA; facilitate payroll and supplies pertaining to the labs

Outreach Coordinator 2015-present
Develop outreach activities for numerous venues including K-12 events and campus family events. Train graduates and undergraduates volunteering at events on activities.

Visiting Assistant Professor Search Committee – member 2016
Search committee for the hire of the Department of Oceanography’s first visiting assistant professor with a focus on ocean observing.

College of Geosciences

Graduate Instructional Committee – member 2015-present
Committee comprised of all graduate directors and academic advisors. Committee duties include review of all graduate course proposals from the college; awarding of the University Merit Fellowship; review and decimation of information pertaining to graduate programs.

Undergraduate Recruitment Committee – member 2015-present
Committee works closely with the College Director of Recruitment to staff recruiting events

Graduate and Undergraduate Scholarship Committee – member 2016-present
Committee reviews and awards scholarships to new and continuing undergraduate and graduate students.

Texas A&M University

GRS Steering Committee – member 2016-present
Committee is tasked with testing and improving the new graduate admission system (GRS) that handles all materials submitted by prospective graduate students.

MENTORING

MS students

Natalie Zielinski - committee member- special appointment (2013-2016)
Benjamin Morgan - peer mentoring (2008-2011)

Master of Ocean Science and Technology students (committee chair non-thesis degree)

S. Polis (2018-present); L. Belobrajdic (2018-present); G. Marzolf (2018-present); J. Marble (2018-present); S. Truesdale (2018-present); L. Travis (2018-present); S. Hall (2017-present); E. Jiminez (2017-present); B. Cervera (2017-present); A. McClenny (2017-present); J. Dedrick (2017-present); Z. Cares (2017-present); J. Wilson (2017-2018); J. Grotte (2017-present); C. Keith (2017-present); B. Barker (2016-2018); K. Grover (2016-present); P. Carrillo (2016-2017); L. Ferris (2015-2017); E. Lewis (2015-2017)

REU and Undergraduate Research Scholar students

Genevieve Genest (2011-2012); Melanie Thornton (2010-2011)

FIELD EXPERIENCE

OSO2010 (Feb. 5 – March 12, 2010) - Physical Oceanography component leader for the Atmosphere-Ice-Ocean interactions in the Eastern Ross Sea expedition aboard the Swedish Icebreaker Oden in the South Pacific Ocean. Coordinated all CTD/LADCP/XBT hydrographic work aboard the Oden, and deployed 3 deep subsurface moorings in the Eastern Ross Sea/Amundsen Sea. Collected/processed salinity samples and collected samples for $\delta^{18}\text{O}$ analysis.

ACROSS (Feb. 14 – March 12, 2009) - Watch Leader for the Antarctic CrossRoads of Slope Streams expedition aboard the Argentine BO Puerto Deseado in the South Scotia Sea. Oversaw all CTD/LADCP/XBT hydrographic work and surface drifter deployments during the midnight to noon watch, as well as assisted with the deployment of 3 deep subsurface moorings.

P18 (Jan. 21 – Feb. 23, 2008) - CTD operator for the CLIVAR/Carbon Repeat Hydrography Program P18 leg 2 aboard the NOAA RV Ronald H. Brown in the southwest Pacific Ocean. Operated the CTD console, collected/processed dissolved oxygen samples and salinity samples, and deployed surface drifters and ARGO floats.

AnSlope (Jan. 28 - Feb. 16, 2005) – Graduate Student for the Cross-slope exchanges at the Antarctic Slope Front mooring recovery expedition aboard the RVIB Nathaniel B. Palmer in the Ross Sea (Southern Ocean). Assisted with the recovery of 5 deep subsurface moorings, as well as retrieval and pre-processing of data from all moored instruments.

Mechanisms Controlling Hypoxia (Sept. 27-29, 2003; April 2-8, June 25 -July 1, Aug. 20-27, 2004) – Graduate Student for the hydrographic survey expeditions aboard the RV Gyre in the Gulf of Mexico. Collected various samples including dissolved oxygen, salinity, DIC, DOC, and nutrients.

Environmental Quality Lab; Coastal Carolina University Department of Marine Science (2001- 2002) – Student Researcher Collected and processed nutrient samples from swashes in the Myrtle Beach, SC area.

Discovery Bay Marine Lab; University of West Indies (2002) – Student Researcher. Conducted research on the Mangrove productivity of Discovery Bay, Jamaica.

PROFESSIONAL PRESENTATIONS

- C.L. Wiederwohl** and A.H. Orsi. (Feb. 2012). *Assessing the influence of heat and freshwater anomalies on deep and bottom waters of the Ross Sea*. 2012 Ocean Sciences Meeting. Salt Lake City, UT (poster).
- C.L. Wiederwohl**, B.P. Morgan and A.H. Orsi. (Dec. 2010). *Sea ice thickness variability in the Southern Ocean*. Fall American Geophysical Union Meeting. San Francisco, CA (poster).
- C.L. Wiederwohl**, A.H. Orsi, G.C. Johnson and S.G. Purkey. (Dec. 2009). *Assessing the effect of Ross Sea source water mass variability on bottom waters offshore*. Fall American Geophysical Union Meeting. San Francisco, CA (poster).
- C.L. Wiederwohl** and A.H. Orsi. (July 2008). *Multiyear variability of the Antarctic waters of the South Pacific Ocean*. Scientific Committee on Antarctic Research Open Science Conference. St. Petersburg, Russia (poster).
- C.L. Stover**, A.H. Orsi, T. Whitworth III, A.L. Gordon, S.S. Jacobs, and M. Visbeck. (Oct. 2005). *Characteristics of the Antarctic Slope Front in the Ross Sea*. Conference on the Oceanography of the Ross Sea. Venice, Italy (poster).
- C.L. Stover**, N. Bartz, and S. Libes. (Nov. 2002). *Eutrophication assessment of swashes in the Grand Strand area, SC*. American Chemical Society Regional Meeting. Charleston, SC. (poster).
- N. Bartz, **C.L. Stover**, and S. Libes. (Nov. 2002). *Long-term trends in water quality of the swashes and surf zone in the Grand Strand Area, SC*. American Chemical Society Regional Meeting. Charleston, SC. (poster).
- C.L. Stover**, N. Bartz, and S. Libes. (Oct. 2002). *Eutrophication assessment of swashes in the Grand Strand area, SC*. Southeastern Ecological Research Society Meeting. Conway, SC. (poster).

PROFESSIONAL DEVELOPMENT

- Leadership Development Program**; Texas A&M University, August 2018 (Participant)
Workshop facilitated by North American Training and Development on best leadership practices.
- Earth Educators Rendezvous**; University of Wisconsin, July 2016 (Participant)
Workshop focuses on Geoscience education and modern classroom practices.
- Mentoring Professional-Track Faculty in Teaching**; Texas A&M University Dean of Faculties Mentoring Workshop Series, February 2016 (panelist). Selected to be a panelist to give perspective on teaching as academic professional track faculty.
- Women's Administrators Exchange Day**; Prairie View A&M University, June 2015 (participant).
Workshop focused on small group discussions of hot topics in higher education including bias in academia, Title IX, Promotion and Tenure.
- Best Practices for Preparing Two-year College Students for a Geoscience Career and Transfer Workshop**; University of Texas, June 2013 (panelist)
Supporting and Advancing Geoscience Education in Two-year Colleges (SAGE 2YC)

Roadmap for a Successful Academic Career Workshop; ADVANCE Center for Women Faculty; Texas A&M University, April 2013 (participant)

The Roadmap Workshop is designed for internal and external women Postdoctoral Researchers and Assistant Professors (3 years or less) in STEM fields.

Mentoring Undergraduates in Research; Texas A&M University, May 2011 (participant)

Workshop focuses on how to be a successful mentor to undergraduates in a research setting.

Preparing for an Academic Career in the Geosciences; University of Oklahoma, July 2008. (participant)

On the Cutting Edge, Professional Development Workshop for Geoscience Faculty.

HONOR AND AWARDS

Dean's Distinguished Achievement Award for Faculty Teaching – TAMU	2017
Pipes Endowed Fellowship – TAMU	2011
Scientific Committee on Antarctic Research IPY Travel Grant – SCAR	2008
Scherck Endowed Fellowship – TAMU	2007- 2009
Geosciences Graduate Scholarship – TAMU	2003-2004
Coastal Scholars Scholarship – CCU	1999-2002
Phi Theta Kappa Honor Society	1999
Recipient of the President's Scholarship – Northwest State Community College	1998-1999