

Kevin Cahill
Senior Research Assistant I
Department of Marine Chemistry
& Geochemistry
Woods Hole Oceanographic Institution
Woods Hole, MA 02543

Telephone: 508-289-2563
Fax: 508-457-2193
E-mail: kcahill@whoi.edu

EDUCATION:

Bachelor of Science Degree in Geology from the University of Massachusetts at Amherst – 1999
American Vacuum Society Short Course: Fundamentals of Vacuum Technology - June 2004
Introduction to Microsoft Visual Basic .NET Programming with Microsoft.NET – August 2008

PROFESSIONAL EXPERIENCE:

Senior Research Assistant I, Woods Hole Oceanographic Institution, 2011 to present.
Research Assistant III, Woods Hole Oceanographic Institution, April 2004 to 2011.
GEOSECS Warehouse Liaison for WHOI Marine Chemistry & Geochemistry Dept., April 2009 to present.
Survey Crew, Bennett and O'Reilly, Inc., June 2003 to April 2004.

AWARDS:

July 2008: Received the Robert R. Whelan Award to fund a training course.

RESEARCH INTERESTS:

I'm interested in vacuum systems and the further development and design of software interfaces with automated vacuum lines.

SKILLS DEVELOPED:

The ability to ship, install, test and service complex high vacuum systems on board research vessels in ports around the world as well as provide on-site training and technical support via email during research cruises.
Experienced with the operation of helium/noble gas extraction systems, seawater degassing vacuum systems and our LH Transpector quadrupole based helium leak detector.
Proficient in the operation and servicing of rotary-vane vacuum pumps, diffusion pumps, high vacuum valves, Merlin M25 water chillers, Polycold P-100 Cryocoolers, SBE 16plus-IM SEACAT Conductivity and Temperature Recorders, and hydraulic cold weld copper-tube seawater sampling devices.
Computer skills: Microsoft Word, Excel, Access, Visual Basic 6, VB.Net, PostgreSQL, Windows and Mac operating systems.
Proficient with hardware and software troubleshooting.
Experienced in small warehouse organization and forklift use.

CRUISE PARTICIPATION:

March 2014: R/V Nathaniel B. Palmer; GO-SHIP P16S Cruise Hobart, Australia – *in-port setup/training for ASEX System*
October 2013: R/V Ronald H. Brown; CLIVAR A16S Cruise Bridgetown, Barbados – *in port maintenance of ASEX System*
July 2013: R/V Ronald H. Brown; CLIVAR A16N Cruise Charleston, SC – *setup/training ASEX System*
March 14 to May 8, 2013: R/V Melville; Leg 1 of CLIVAR P02 Cruise Yokohama, Japan to Honolulu, Hawaii
March 24 to April 21, 2012: R/V Atlantis; CLIVAR A22 Cruise Woods Hole, MA to Bridgetown, Barbados
August 2011: R/V Ronald H. Brown; CLIVAR A10 Cruise Cape Town, South Africa – *in-port setup/training for ASEX System*
February 2011: R/V Nathaniel B. Palmer; CLIVAR S4P Cruise McMurdo, Antarctica – *setup/training for ASEX System*
November 2010: R/V Knorr; GEOTRACES Charleston, SC – *unloaded ship in dry-dock and shipped container back to WHOI*
September 2010: R/V Atlantis; CARBON EXPORT Woods Hole, MA – *setup of Dr. Stanley's at-sea mass spec on the ship*
March 2010: R/V Ronald H. Brown; CLIVAR A13.5 Cruise Cape Town, South Africa – *setup/training for ASEX System*
December 2009: R/V Ronald H. Brown; CLIVAR A13.5 Cruise Charleston, SC – *unloaded ASEX container onto R/V Brown*
November 2009: R/V Melville; CLIVAR P6 Cruise Brisbane, Australia – *in-port setup/training for ASEX System*
March 2009: R/V Roger Revelle; CLIVAR I5 Cruise Cape Town, South Africa – *in-port setup/training for ASEX System*
January 2008: R/V Roger Revelle; CLIVAR I6 Cruise Durban, South Africa – *in-port setup/training for ASEX System*
December 2, 2007 to January 22, 2008: R/V Ronald H. Brown CLIVAR P18 Cruise San Diego to Easter Island
March 2007: Bermuda Institute of Ocean Sciences - *retrieved the Noble Gas Sampler*
January 2007: R/V Roger Revelle; CLIVAR I8S/I9N Cruise Dunedin, New Zealand – *in-port setup/training for ASEX System*
January 2007: R/V Bank of Bermuda Atlantic Explorer – *removed ASEX system in shipyard in Norfolk, VA*
October 2006: R/V Bank of Bermuda Atlantic Explorer; BATS Cruise Bermuda to Bermuda
July 2006: R/V Bank of Bermuda Atlantic Explorer; BATS Cruise Bermuda to Bermuda
February 8 to March 3, 2006: R/V Thomas G. Thompson; CLIVAR P16N Cruise Tahiti to Hawaii
June 20 to July 15, 2005: R/V Oceanus; EDDIES Cruise Woods Hole to Bermuda
March 2005: R/V Oceanus; NTE Cruise Bermuda - *removal of ASEX System*

February 2005: R/V Oceanus; NTE Cruise Bermuda to Bermuda – *in-port setup/training for ASEX System*
October 2004: R/V Weatherbird II; BATS Cruise Bermuda to Bermuda
September 2004: R/V Weatherbird II; BATS Cruise Bermuda to Bermuda

OTHER PUBLICATIONS:

Jenkins, W. J., D. E. Lott III, B. E. Longworth, J. M. Curtice, and K. L. Cahill (2015) The distributions of helium isotopes and tritium along the U.S. GEOTRACES North Atlantic Sections (GEOTRACES GA03). Deep-Sea Research II.

Jenkins, W. J., D. E. Lott, K. Cahill, J. Curtice, P. Landry. 2010. Sampling and measuring helium isotopes and tritium in seawater. In *The GO-SHIP Repeat Hydrography Manual: A Collection of Expert Reports and Guidelines*. Hood, E.M., C.L. Sabine, and B.M. Sloyan, eds. IOCCP Report Number 14, ICPO Publication Series Number 134. Available online at: <http://www.go-ship.org/HydroMan.html>.

Produced an in-house instructional video and accompanying literature for the Cold Welder System for noble gas samples. 2014.

Rewrote sections of the User's Manual (in-house publication) for the Automated Seawater Extraction system after a major hardware/software upgrade. 2010.