

CURRICULUM VITAE

DANIEL JAMES REPETA

Senior Scientist
Department of Marine Chemistry & Geochemistry
Woods Hole Oceanographic Institution
Woods Hole, MA 02543

Tel.: (508) 289-2635

Fax: (508) 457-2075 (Watson Lab)

E-mail: drepeta@whoi.edu

Education:

B.S., Chemistry, University of Rhode Island, September 1977

Ph.D., Chemical Oceanography, Massachusetts Institute of Technology/Woods Hole Oceanographic Institution, September 1982

Professional Experience:

Senior Scientist, Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, 1998-present

Chair, Department of Marine Chemistry and Geochemistry, 2010

Associate Scientist, Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, 1989 to 1998

Assistant Scientist, Department of Chemistry, Woods Hole Oceanographic Institution, 1985 to 1989

NATO Postdoctoral Fellow, Institute du Chimie, Universite Louis Pasteur, Strasbourg, France, 1984

NIH Postdoctoral Research Fellow, Columbia University, 1983

Awards and Fellowships:

WHOI Vetleson Award, 2004

Stanley W. Watson Chair in Oceanography, 2000

National Institutes of Health, National Research Service Award, 1983-1984

NSF/NATO Postdoctoral Fellowship Award, 1982

Paul Fye Award for Best Student Paper, MIT/WHOI Joint Program, 1982

Phi Beta Kappa, Graduated Highest Distinction, University of Rhode Island, 1977

Analytical Chemistry Award, URI Chapter of the American Chemical Society, 1976

Research Interests:

Cycling of organic matter in seawater and sediments. Chemistry and biochemistry of photosynthetic pigments in marine plankton. Structural determination, biological production and fate complex polysaccharides and bioactive organic compounds in dissolved organic matter. Use of stable (^{15}N , ^{13}C) and natural abundance radioisotopes (^{14}C , ^3H) in specific organic compounds as tracers. Carbon preservation in marine sediments. Microbial biogeochemistry in the North Pacific Ocean. Microbial production of organic iodine.

Professional Activities:

SCOR-UNESCO WG-78 Intercalibration of seawater pigment analyses (May 1986-December 1995)

Panel member CHEMRAWN IV Upper Ocean Working Group, Keystone, CO (1987)

Member, JGOFS Upper Ocean Working Group (1989)

Session Chair, 14th International Meeting in Organic Geochemistry (1989)

Steering Committee, Symposia on Future Challenges in Marine Organic Chemistry (1989-1990)

JGOFS Pigment Intercalibration Exercise (1989-1990)

IOC Group of Experts on Standards and Reference Materials (1990)
Member, JGOFS Arabian Sea Working Group (1991)
Indian Ocean Marine Affairs Commission (IOMAC), Marine Chemistry Working Group (1992)
Steering Committee, DoE Ocean Margins Program (1993-1998)
Dalhem Conference on Non-Living Organic Matter in the Environment (1994)
External Review Committee, Oceanography Department, Brookhaven National Laboratory (1994)
Conference Organizer, DoE Ocean Margins Program Annual Meeting (1994)
Session Chair, ASLO winter/spring meeting (1997)
Panel member, Future of Chemical Oceanography in the US (1998)
NSF Chemical Oceanography, Proposal Review Panel (1998)
Guest Editor, Deep Sea Research (2000)
Hosted ONR workshop on “Colored Dissolved Organic Matter in Seawater” at WHOI (July 2002)
Member, CNRS PROOF Oversight Panel: Marine Chemistry and Biology (December 2002-2003)
Member, NSF Biocomplexity Panel (April 2003)
Member, DOE Carbon Sequestration Panel (May 2003)
Instructor on organic biomarkers and paleoclimate at the Austral Summer Institute, Concepcion, Chile (January 2004)
CMORE Executive Committee (2006-2010)
Instructor at the Agouon Summer Course in Marine Microbiology (Each June 2006-2014)
Co-organizer Production and Cycling of Dissolved Organic Matter in Aquatic Systems Studied through Experimental, Field, and Modeling Approaches. ASLO Winter meeting (February 2007)
WHOI representative to Dept. of Energy to explore reviving DOE oceans programs (June 2007)
Co-organizer & author of workshop report, CMORE Futures: All Theme Science and Strategic Planning Workshop, MIT (November 2008)
Rapporteur, Rising CO₂, Ocean Acidification and Their Impacts on Marine Microbes Workshop, Honolulu, Hawaii (February 2009)
Visiting Scientist (invited) Laboratoire de Microbiologie Géochimie et Ecologie Marines, CNRS Centre d’Oceanologie de Marseille, Marseilles, France (June-July 2009)
Co-organizer, IMBER-IMBIZO I workshop on biogeochemical cycling in the bathypelagic ocean, Miami (November 2009)
Steering Committee and Co-organizer, IMBER-IMBIZO II workshop on elemental cycles and food web structure. Heraklion, Crete (October 2010)
External Review Committee-NSERC (Canada) committee of experts (Discovery Grant program) ASLO, Salt Lake City, UT (February 2010)
Workshop Organizer – CMORE BiGRAPA post-cruise workshop, MBARI, Monterey CA (March 19-21, 2011)
Co-organizer, NSF Emerging Topics in Biogeochemistry- carbon preservation workshop. Hattiesburg, MS (March 2012)
NSF Chemical Oceanography Panel (May 2014)
GBMF DOM workshop, Nov. 17-20, 2014
Gulf of Mexico Research Initiative Review Panel Member (7/15).
Guest Managing Editor, *Marine Chemistry* Special Issue on the Biogeochemistry of Dissolved Organic Matter (5-12, 2014)
Associate Editor, *Frontiers in Microbiology*
Reviewer for NSF proposals, Austrian Science Foundation proposals, and various peer-reviewed journals (*Science*, *Nature*, *Nature Geoscience*, *Marine Chemistry*, *Science Advances*, *Environmental Sci. & Technology*, *Frontiers in Marine Science*, etc.)
Session Organizer, Linking marine microbes and the molecules of dissolved organic matter through data science, 2016 ASLO Winter Meeting.

WHOI Related Professional Activities:

Promotion Committee, Dr. M. Altabet
Promotion Committee, Dr. W. Martin
Promotion Committee, Dr. T. Eglinton
Promotion Committee, Dr. M. Conte
Promotion Committee, Dr. Mark Hahn
Chair, MS/NMR facility users committee (1990-2003)
TenSEC (2000, 2001, 2002)
MC&G department space committee (2000, 2001, 2002), BGC department representative (2001, 2002)
Advisory committee for Eric Hintsu (2000, 2001, 2002, 2003)
Ad hoc committee on laboratory safety (2001)
Advisory group for gender climate assessment (2001, 2002)
MC&G scientific staff search committee (multiple times)
Mentorship committee for Katrina Edwards (2001, 2002)
Mentorship committee for Maureen Conte (2001, 2002)
WHOI Partnership program (2001-2003; 2006-2010)
MC&G department T&G staff annual performance review committee (multiple times)
Institution Safety Committee (2002-2003)
Chair, Department Safety Committee (2002-2003)
Postdoctoral Selection Committee
Mentorship committee for Mak Saito (2004-2010)
Mentorship committee for Ben Van Mooy (2005-2010)
Marine Operations Committee (2005-2015)
Chair, Mentorship Committee for Dierdre Toole (2006-2010)
WHOI HCMR MOU for research collaboration (2006)
Chair, Joint MC&G and Biology Dept. Search Committee (2007)
Review committee for WHOI Independent Study and Interdisciplinary Awards (2007)
Mentorship committee for Tracy Mincer (2005-2015)
Promotion Committee, Carl Lamborg (2010)
Promotion Committee, Dierdre Toole (2010)
WHOI Marine Operations Committee (2017-2018)
Dalio Review Committee (2017-2018)

WHOI Education-Related Activities:

SURDNA Fellowship Committee, 1986
Admissions Committee, 1986-1987; 2000-2001
JCCO, 1988-1996 (Chair, 1992-1996)
Education Council
Education Assembly
Search Committee, Associate Director and Dean for Education (J. Farrington appointment)
Joint Program in Oceanography, Internal Review Committee
Chair, Thesis Defense (J. Herring, A. Pearson, K. Smith)
General Exam Committee
Taught/ co-taught Marine Organic Geochemistry (MIT 12.746)
Co taught Marine Chemistry Seminar
Center for ocean sciences excellence in education (COSEE). Participated in workshops at University of Massachusetts, Boston (January 2005) and at WHOI (April 2005). I worked with middle school teachers in the Fairhaven, MA public school system to develop curriculum models incorporating marine sciences to teach chemistry.
Advisor, JP Class of 2012

Other Education Related:

Thesis Examination Committee: Pierre Schaffer, Ist. Louis Pasteur, Strasbourg, France
Thesis Examination Committee: Francesca Vidussi, LPMC, Villefranche-sur-Mer, France
Ph.D. Thesis committee for Kevin Kroeger, BUMP student (2000, 2001, 2002)
Ph.D. Thesis committee for Julie Callahan, UMB student (2000, 2001, 2002)
Minyi Sun, SUNY, Stony Brook, Thesis Committee
Ilka Peeken, Visiting Student, Christian-Albrechts Universitat, Kiel
Salvatore Giovannini, LCPM, Villefranche-sur-Mer, France
Pamela Rossel, Visiting student from the Univ. Concepcion, Chile (2004)
Joanna York, Boston University Marine Program student (2002-2005)
General Examination and Ph.D. thesis committee for Nathalie Morata, UCONN (2006-2009)
Catherine Luria, Brown University (2012-2013)

Supervision:

Daniel J. Simpson, WHOI Postdoctoral Fellow
Ralf Goericke, WHOI Postdoctoral Fellow
Robert Chen, NSF Postdoctoral Fellow
Sharon Widmer, WHOI Postdoctoral Fellow
Silvio Pantoja, WHOI Postdoctoral Fellow
Alexandra Gogou, WHOI Postdoctoral Investigator
Mine Berg, WHOI Postdoctoral Investigator
Markus Kienast, WHOI Postdoctoral Scholar (2003)
Vera Jones, Postdoctoral Investigator (2005)
Christos Panagiotopolous, WHOI Postdoctoral Scholar (2003, 2004, 2005)
Ben Van Mooy, WHOI Postdoctoral Scholar (2004)
Brandy Toner, WHOI Postdoctoral Investigator (2006)
Mar Nieto-Cid, Fulbright Postdoctoral Investigator (2009-2011)
Travis Meador, WHOI Postdoctoral Investigator (2009-2011)
Prosper Zigah, WHOI-NOSAMS Postdoctoral Scholar (2014-2016)
Tina Lin, Visiting Postdoctoral Investigator (2014-2015)
Randelle Bundy, WHOI-NOSAMS Postdoctoral Scholar (2015-2017)
Mark McCaffrey, Ph.D. supervisor
Carol Arnosti, Ph.D. supervisor
Linda King, Ph.D. supervisor
Julian Sachs, Ph.D. supervisor
Lihini Aluwihare, Ph.D. supervisor
Tracy Quan, Ph.D. supervisor
Jamie Becker, Ph.D. co-supervisor
Christopher Follett, Ph.D. co-supervisor
Rene Boiteau, Ph.D. supervisor
Marianne Acker, Ph.D. supervisor
Lydia Babcock-Adams, Ph.D. supervisor
Oscar Sosa, Ph.D. co-supervisor
Emily Estes, thesis committee member
Emily Zakem, thesis committee member
Connie Hart, Joint Program student
Jess Atkins, Joint Program student
Payel Parech, Joint Program student
Amymarie Accardi, Joint Program student
Francesca DeLeonard, Joint Program student
Kristy Dahl, Joint Program student

Seth John, Joint Program student
Elizabeth Kujawinski, MIT UROP; Joint Program student
Jed Goldstone, Joint Program student; thesis committee
Amy Englebrect, Joint Program Student
Kathleen Munson, Joint Program Student
Craig McLean, Summer Student Fellow, 2015
Jan Barbas, Summer Student Fellow
Kathleen Knudsen-Smith, Summer Student Fellow
Indai Ried, Summer Student Fellow
Ramona Rico, Summer Student Fellow
Mark Otero, Summer Student Fellow
Corrina Chase, MIT UROP, 2001
Jennifer Szlosnik, MIT UROP, 2001
Susan Lang, MIT UROP student
Tracy Quan, Summer Student Fellow
Francesca DeLeonarids, Summer Student Fellow, 2001
Karin Lemkau, Summer Student Fellow, 2004
Nicholas Ward, Summer Student Fellow, 2007
Katherine Heal, Summer Student Fellow, 2010
Pascal Gryezka, Research Assistant, 1987
Dr. Rudolf Jaffe, PRF Visiting Professor, 1988
Joyce Irvine, Research Assistant, 1992-1995
Dr. Ruben Ocampo, Guest Investigator
Dr. Herve Claustre, Guest Investigator
Dr. Marie-Alexandrine Sicre, Guest Investigator
Dr. Richard Bromund, Guest Investigator
Hovey Clifford, Research Assistant
Katherine Harvey, PT Helper
Hannah Gaines, PT Helper
Ellen Lai, PT helper, 2000
Bruce Tripp, Research Associate, 2000, 2001, 2002, 2003
Elta Smith, Guest Student, 2000, 2001
Julian Sachs, Visiting Investigator, 2000, 2001
Dr. Giovannir Daneri, Visiting Scientist, 2004
Bronwen Konecky, casual labor, 2005
Paul Catterson, Guest Summer Student, 2007
Christos Panagiotopolous, Guest investigator, CNRS, Marseilles, France, 2008
Aleka Gogou, Guest Investigator, HCMR, Athens, Greece, 2008
Rosa Raggio, Guest Student, 2008
LaToya James, CMORE Guest Student, 2010 and 2011
Kehou Manoi, CMORE Guest Student, 2010
Dr. Siby Kurian, Guest Investigator, NIO, Goa, India, 2010
Prosper Zigah, Guest Student, GLO, U. Minn., 2010
Lynn Francis, PT Helper, 2010
Cory Padilla, CMORE Guest Student, 2011
Katherine Heal, Guest Student, 2011
Dan Sakakini, visiting student intern, Falmouth Academy, 2012
Simona Brogli, Gori Foundation guest student, 2012
Dr. Chiara Santinelli, Mary Sears guest investigator, 2012
Adeline Brym, visiting student, North Carolina State University, 2012
Paige Kozlowski, Northeastern Univ. Coop student, 2012

Andrea Paluselli, Univ. Pisa, Italy, visiting student, 2012
Laura Weber, visiting student, 2012-2013
Marianne Acker, visiting student, University of Brest, France, 2014-2015, now Joint Program student,
2016-present
Dana Layo, Visiting Summer Student, Roanoke University, 2015
Jordan Windenroth, Northeastern University Undergraduate Research Coop, July 2015-present
Yuri Galletti, WHOI Gori Student Fellow, 2015
Sarah Bercovici, WHOI NOSAMS Student Fellow
Luis Valentin Alvarado, Guest Student
Carl Johnson, Research Specialist
Tina Lin, Visiting Investigator, National Taiwan University
James Moffett, Visiting Investigator, University of Southern California
Ben Granzow, JP student- prethesis supervisor
Jingxuan Lin, JP student- prethesis supervisor
Feifei Meng, Visiting student, Xiamen University
Clare Cahir, Visiting Student, Notre Dame University
Jane Sedlak, Summer Student Fellow

Selected Field Programs:

R/V *Knorr*, July 1976
R/V *Knorr*, July 1977
R/V *Wecoma*, August/September 1980
R/V *Atlantis II*, March/April 1981
R/V *Wecoma*, September/October 1981
R/V *Moana Wave*, July/August 1987
R/V *Knorr*, May 1988
R/V *Atlantis II*, April/May 1989
R/V *Point Lobos*, September 1992
R/V *Oceanus*, (Chief Scientist), July 1993
R/V *Iselin*, (Chief Scientist), April/May 1994
R/V *Endeavor*, (Chief Scientist), July 1994
R/V *Endeavor*, (Chief Scientist), February/March 1996
R/V *Seward Johnson*, (Chief Scientist), July/August 1996
R/V *Melville*, North Pacific Subtropical Gyre, 1999
R/V *Knorr*, Sargasso Sea, Large volume sampling for dissolved organic carbon, June 2000
Natural Energy Laboratory of Hawaii Authority. Large volume sampling for dissolved organic carbon.
January 2001
R/V *Knorr*, Black Sea. Large volume sampling for dissolved organic carbon. May-June 2001
Brown Tide in Great South Bay, Long Island. May and June 2001-2002
Natural Energy Laboratory of Hawaii Authority. Large volume sampling for dissolved organic carbon.
February 2002
R/V *Melville*, (Chief Scientist) North Pacific Ocean. Large volume sampling for dissolved organic
carbon. June 2002
Bermuda Biological Station. Large volume water sampling. March 2003
Natural Energy Laboratory Hawaii Authority, Large volume water sampling. December 2003
R/V *Henlopen*, Biocomplexity cruise, Chesapeake Bay. July 2004
R/V *Knorr*, Costa Rica Upwelling Dome. July-August 2005
R/V *Tioga*. Outer Continental Shelf. September 2005
Natural Energy Laboratory Hawaii Authority, Large volume water sampling. February 2006
R/V *Point Sur*, Santa Barbara Basin. April 2006
R/V *Kilo Moana*, North Pacific Ocean. August 2007

Natural Energy Laboratory Hawaii Authority, Large volume water sampling. December 2009
R/V *Melville*, (Chief Scientist) CMORE-BiGRAPA Arica, Chile-Easter Island. November-December
2010
Natural Energy Laboratory Hawaii Authority, Large volume water sampling. February 2013
R/V *Kilo Moana* KM 14-27, (Chief Scientist), CMORE Winter Cruise, December 4-12, 2014
Natural Energy Laboratory, Hawaii Authority, Field collection of dissolved organic matter, Feb. 8-22,
2015
CMORE SCOPE Summer Cruise, July 22-August 8, 2015
Hawaii Ocean Time-series cruise 297, November 7-11, 2017
Natural Energy Laboratory, Hawaii Authority, February 12-22, 2018

Publications:

- Repeta, D. J. (1982). Transformation of carotenoids in the oceanic water column. Ph.D. Thesis, WHOI/MIT Joint Program in Oceanography, Woods Hole, MA, 241 pp.
- Repeta, D. J. and R. B. Gagosian (1982). Carotenoid transformations in coastal marine waters. *Nature*, **295**: 51–54.
- Repeta, D. J. and R. B. Gagosian (1983). Carotenoid transformation products in the Peruvian upwelling system. In: *Advances in Organic Geochemistry 1981* (M. Bjoroy, Ed.), Wiley-Heyden, London, pp. 380–390.
- Repeta, D. J. and R. B. Gagosian (1984). Transformation reactions and recycling of carotenoids and chlorins in the Peru upwelling region (15°S, 75°W). *Geochim. Cosmochim. Acta*, **48**: 1265–1277.
- Repeta, D. J. and R. B. Gagosian (1987). Carotenoid diagenesis in recent marine sediments-I. The Peru continental shelf (15°S, 75°W). *Geochim. Cosmochim. Acta*, **51**: 1001–1009.
- Lee, M. S., D. J. Repeta, K. Nakanishi, and M. G. Zagorski (1987). Biosynthetic origins and assignment of ¹³C-NMR peaks of Brevetoxin-B. *J. Amer. Chem. Soc.*, **108**: 7855–7856.
- Repeta, D. J. (1988). Origin, composition, and fate of dissolved organic carbon. *Appl. Geochem.*, **204**: 102.
- Repeta, D. J. and N. M. Frew (1988). Carotenoid dehydrates in Recent marine sediments. The structure and synthesis of fucoxanthin dehydrate. *Org. Geochem.*, **12**: 469–477.
- Repeta, D. J. (1989). Carotenoid diagenesis in recent marine sediments — II. Degradation of fucoxanthin to loliolide. *Geochim. Cosmochim. Acta*, **53**: 699–708.
- Repeta, D. J. (1989). Carotenoid diagenesis in recent sediments from the Peru margin. Initial Reports of the Ocean Drilling Program — Leg 112, pp. 567–572.
- Repeta, D. J., D. J. Simpson, B. B. Jorgensen, and H. W. Jannasch (1989). Evidence for anoxygenic photosynthesis from the distribution of bacteriochlorophylls in the Black Sea. *Nature*, **342**, 69–72.
- McCaffrey, M. A., J. W. Farrington, and D. J. Repeta (1989). The lipid composition of *Thioploca* spp. from the Peru upwelling region — 15°S. *Org. Geochem.*, **14**: 61–68.

- McCaffrey, M. A., J. W. Farrington, and D. J. Repeta (1990). The organic geochemistry of Peru Margin surface sediments: I. A comparison of the C₃₇ alkenone and historical El Niño records. *Geochim. Cosmochim. Acta*, **54**: 1671–1682.
- Trendel, J. M., J. Guilhem, P. Crisp, D. J. Repeta, J. Connan, and P. Albrecht (1990). Identification of two C-10 demethylated C₂₈ hopanes in biodegraded petroleum. *J. Chem. Soc., Chem. Comm.*, **5**: 424–425.
- McCaffrey, M. A., J. W. Farrington, and D. J. Repeta (1991). The organic geochemistry of Peru margin in surface sediments: II. Paleoenvironmental implications of hydrocarbon and alcohol profiles. *Geochim. Cosmochim. Acta*, **55**: 483–498.
- Repeta, D. J. (1991). Analysis of carotenoids and chlorophylls in suspended particulate matter, sediment trap samples, and surface sediments. In: *Marine Particles: Analysis and Characterization* (D. Spencer and D. Hurd, eds.), AGU Monograph 63, American Geophysical Union, pp. 125–128.
- Repeta, D. J. and D. J. Simpson (1991). The distribution and recycling of chlorophyll, bacteriochlorophyll and carotenoids in the Black Sea. *Deep Sea Res.*, **38**: S969–S984.
- King, L. L. and D. J. Repeta (1991). Novel Pyropheophorbide steryl esters in Black Sea Sediments. *Geochim. Cosmochim. Acta*, **55**: 2067–2074.
- Wright, S. W., S. W. Jeffrey, R. F. C. Mantoura, C. A. Llewellyn, T. Bjørnland, D. Repeta, and N. Welschmeyer (1991). Improved HPLC method for the analysis of chlorophylls and carotenoids from marine phytoplankton. *Marine Ecology Progress Series*, **77**: 183–196.
- Repeta, D. J., M. A. McCaffrey, and J. W. Farrington (1992). Organic geochemistry as a tool to study upwelling systems: recent results from the Peru and Namibian shelves. In: *Upwelling Systems: Evolution Since the Early Miocene* (C. P. Summerhayes, W. L. Prell, and K. C. Emeis, Eds.), *Geol. Soc. Spec. Pub.* **64**, pp. 257–272.
- Goericke, R. and D. J. Repeta (1992). The pigments of *Prochlorococcus minutus*: The presence of divinyl chlorophyll-a and b, in a marine procaryote. *Limnol. Oceanogr.*, **37**: 425–433.
- Rau, G. H., T. Takahashi, D. J. Des Marais, D. J. Repeta, and J. H. Martin (1992). The relationship between δ¹³C of organic matter and [CO₂(aq)] in ocean surface water: Data from a JGOFS site in the northeast Atlantic Ocean and a model. *Geochim. Cosmochim. Acta*, **56**: 1413–1419.
- Repeta, D. J. (1993). A high resolution historical record of Holocene anoxygenic primary production in the Black Sea. *Geochim. Cosmochim. Acta*, **57**: 4337–4342.
- Goericke, R. and D. J. Repeta (1993). Chlorophylls *a* and *b* and divinyl chlorophylls *a* and *b* in the open subtropical North Atlantic Ocean. *Mar. Ecol. Prog. Ser.*, **101**: 307–313.
- Arnosti, C. and D. J. Repeta (1994). Extracellular enzyme activity in anaerobic bacterial cultures: evidence of pullulanase activity among mesophilic marine bacteria. *Appl. Environ. Microbiology*, **60** (3): 840–846.
- Arnosti, C., D. J. Repeta, and N. V. Blough (1994). Rapid bacterial degradation of polysaccharides in anoxic marine systems. *Geochim. Cosmochim. Acta*, **58**: 2639–2652.

- Arnosti, C. and D. J. Repeta (1994). Oligosaccharide degradation by anaerobic marine bacteria: characterization of an experimental system to study polymer degradation in sediments. *Limnol. Oceanogr.*, **39**: 1865–1877.
- King, L. L. and D. J. Repeta (1994). High molecular weight and acid extractable chlorophyll degradation products in the Black Sea: New sinks for chlorophyll. *Org. Geochem.*, **21**: 1243–1255.
- King, L. L. and D. J. Repeta (1994). Phorbins in Black Sea sediment traps and sediments: A preliminary evaluation of their paleoceanographic potential. *Geochim. Cosmochim. Acta*, **58**: 4389–4399.
- Arnosti, C., and D. J. Repeta (1995). Nuclear Magnetic Resonance Spectroscopy of Pullulan and Isomaltose: Complete Assignment of Chemical Shifts. *Starch*, **47**: 73–75.
- Alperin, M. J., J. Balesdent, R. H. Benner, N. V. Blough, R. F. Christman, E. R. M. Druffel, F. H. Frimmel, G. Guggenberger, D. J. Repeta, H. H. Richnow, and R. S. Swift (1995). *How can we best characterize and quantify pools and fluxes of nonliving organic matter?* In: *The Role of Nonliving Organic Matter in the Earth's Carbon Cycle* (R. G. Zepp and C. Sonntag, Eds.), J. W. Wiley & Sons, New York.
- Chen, R. F., B. Fry, C. S. Hopkinson, D. J. Repeta, and E. T. Peltzer (1996). Dissolved organic carbon in Georges Bank. *Continental Shelf Research*, **16**(4): 409–420.
- Repeta, D. J. and T. Bjornland (1997). Preparation of carotenoid standards. In: *Phytoplankton Pigments in Oceanography*. (S. W. Jeffrey, R. F. C. Mantoura, and S. W. Wright, Eds.). UNESCO Publishing, Paris.
- Mantoura, R. F. C. and D. J. Repeta (1997). Calibration methods for HPLC. In: *Phytoplankton Pigments in Oceanography: Guidelines to Modern Methods*. S. Jeffrey, R. F. C. Mantoura and S. W. Wright (Eds.). UNESCO Publishing, Paris.
- Aluwihare, L. I., D. J. Repeta, and R. F. Chen (1997). A major biopolymeric component to dissolved organic carbon in surface sea water. *Nature*, **387**: 166–169.
- Aluwihare, L. I., and D. J. Repeta (1999). Comparison of the chemical characteristics of oceanic DOM and extracellular DOM produced by marine algae. *Marine Ecology Progress Series*, **186**: 105–117.
- Goericke, R., A. Shankle, and D. J. Repeta (1999). Novel chlorin carotenoid esters in coastal marine sediments. *Geochim. Cosmochim. Acta*, **63**: 2825–2834.
- Ocampo, R., J. P. Sachs, and D. J. Repeta (1999). Isolation and structure determination of the unstable 13(2), 17(3) cyclophorbide-a enol from recent sediments. *Geochim. Cosmochim. Acta*, **63**: 3743–3749.
- Ocampo, R. and D. J. Repeta (1999). Structure determination of Purpurin-18 from sedimentary organic matter. *Org. Geochem.*, **30**: 189–193.
- Sachs, J. P. and D. J. Repeta (1999). Oligotrophy and nitrogen fixation during eastern Mediterranean sapropel events. *Science*, **286**: 2485–2488.

- Sachs, J. P., D. J. Repeta, and R. Goericke (1999). Nitrogen and carbon isotopic ratios from marine phytoplankton. *Geochim. Cosmochim. Acta*, **63**: 1431–1441.
- Sachs, J. P. and D. J. Repeta (2000). The purification of chlorine from marine particles and sediments for nitrogen and carbon isotopic analysis. *Org. Geochem.*, **31**: 317–329.
- Ocampo, R. and D. J. Repeta (2002). Isolation and structure determination of two novel C(132)-OH Bacteriopheophytin-a allomers from a coastal salt pond sediment. *Org. Geochem.*, **33**: 849–854.
- Pantoja, S., D. J. Repeta, J. P. Sachs, and D. M. Sigman (2002). Isotopic constraints on the nitrogen cycle of the Mediterranean Sea water column. *Deep Sea Research I*, **75**: 1609–1621.
- Repeta, D. J., T. M. Quan, L. I. Aluwihare and A. Accardi (2002). A comparison of chemical characteristics of high molecular weight dissolved organic matter in fresh and marine waters. *Geochim. Cosmochim. Acta*, **66**: 955–962.
- Berg, G. M., D. J. Repeta, and J. LaRoche (2002). Dissolved organic nitrogen hydrolysis rates in axenic cultures of *Aureococcus anophagefferens* (Pelagophyceae): comparison with heterotrophic bacteria. *Appl. Environ. Microbiol.*, **68**: 401–404.
- Vlahos, P., R. F. Chen, and D. J. Repeta (2002). Dissolved organic carbon in the Mid Atlantic Bight. *Deep Sea Research II*, **49**: 4369–4385.
- Aluwihare, L. I., D. J. Repeta, and R. F. Chen (2002). Chemical composition and cycling of high molecular weight dissolved organic matter in the Mid Atlantic Bight. *Deep Sea Research II*, **49**: 4421–4438.
- Verity, P. G., J. E. Bauer, C. N. Flagg, D. DeMaster and D. J. Repeta (2002). The Ocean Margins Program: an interdisciplinary study of carbon sources, transformations, and sinks in a temperate continental margin system. *Deep Sea Research II*, **49**: 4273–4295.
- Pantoja, S., D. J. Repeta, J. P. Sachs, and D. M. Sigman (2002). Stable isotope constraints on the nitrogen cycle of the Mediterranean Sea water column. *Deep-Sea Research I*, **49**: 1609–1621.
- Berg, G. M., D. J. Repeta, and J. LaRoche (2003). The role of the picoeukaryote *Aureococcus anophagefferens* in cycling of marine high molecular weight dissolved organic nitrogen. *Limnol. Oceanogr.*, **48**: 1825–1830.
- Eglinton, T. I. and D. J. Repeta (2003). Organic Matter in the Contemporary Ocean, In: *Treatise On Geochemistry Volume 6: The Oceans and Marine Geochemistry* (H. D. Holland and K. K. Turekian, Eds.), Elsevier.
- Repeta, D. J., N. T. Hartman, and S. John (2003). Ocean color and the production of novel polychlorinated aromatic compounds by marine biota. *Environ. Sci. Tech.*, **38**: 21–27.
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- York, J. K., I. Valiela, and D. J. Repeta** (2004). Stable Isotopic Detection of Ammonium and Nitrate Assimilation by Estuarine Phytoplankton. AGU fall meeting. December 13-17.

- Rossel, R., S. Pantoja, D. J. Repeta, C. Lange, R. Castro, L. Nuñez, and D. Hebbeln (2004). Last glacial maximum to Holocene changes in export production and sea surface temperature from the continental margin off Concepcion, Chile (poster presentation). Gordon Research Conference in Organic Geochemistry. August 8-13.
- Repeta, D. J.** and C. Panagiotopolous (2005). Bacterial production and a radiocarbon based measurement of DOC cycling in surface seawater. ASLO winter meeting, Salt Lake City, UT. February 20-25.
- Panagiotopolous, C., D. J. Repeta, and C. G. Johnson (2005). Molecular characterization of oligosaccharides from high molecular weight dissolved organic matter (HMWDOM) poster presentation). ASLO winter meeting, Salt Lake City, UT. February 20-25.
- Quan, T. M.** and D. J. Repeta (2005). Radiocarbon analyses of individual amino acids isolated from marine high molecular weight dissolved organic matter. ASLO winter meeting, Salt Lake City, UT. February 20-25.
- Jones, V., K. E. H. Penkman, M. J. Collins, A. Gogou, C. Migon, and D. J. Repeta (2005). Microbial inputs to the dissolved organic matter pool in the NW Mediterranean as revealed by amino acid enantiomer analyses (poster presentation). ASLO winter meeting, Salt Lake City, UT. February 20-25.
- Repeta, D. J.** (2005). Sequestration of dissolved organic carbon in the deep sea. DOE Workshop on carbon sequestration in the Marine Environment. Belmont House, Elkridge MD. May 26-27.
- Repeta, D. J.** (2005). Composition and cycling of dissolved organic matter in the North Pacific Subtropical Gyre. Hellenic Center for Marine Research, Athens, Greece. June 16-17.
- Repeta, D. J.,** C. Panagiotopoulos, C. Johnson, and L. I. Aluwihare (2005). The composition and cycling of high molecular weight dissolved organic matter in the open ocean. ASLO international meeting. Santiago de Compostela, Spain. June 21-26.
- Jones, V.,** A. Gogou, C. Migon, and D. J. Repeta (2005). Chemical characterization and cycling of marine dissolved organic matter in the NW Mediterranean Sea. ASLO international meeting. Santiago de Compostela, Spain. June 21-26.
- York, J. K.,** I. Valiela, and D. J. Repeta (2005). Stable isotopic assessment of phytoplankton nitrogen preferences in estuaries. ASLO international meeting. Santiago de Compostela, Spain. June 21-26.
- Gogou, A.,** D. J. Repeta, and V. Jones (2005). Characterization and Cycling of DOM in the north-western Mediterranean Sea. CIESM Workshop on Production and Fate of Dissolved Organic Matter in the Mediterranean Sea. Cambados, Spain. September 21-24.
- Repeta, D. J.** (2006). Composition and cycling of dissolved organic matter in seawater. Symposium for Organic Geochemistry in honor of Dr. John W. Farrington. Woods Hole, MA. November 8.
- Aluwihare, L. I.,** D. J. Repeta, and R. P. De Jesus (2006). Using radiocarbon coupled with chemical characterization to elucidate the cycle of high molecular weight dissolved organic carbon in the marine environment. Ocean Sciences winter meeting, Honolulu, HI. February 20-24.
- Bronk, D. A.,** W. O. Smith, Q. Roberts, C. A. Carlson, G. Henderson, D. Steinberg, M. P. Sanderson, E. Wommack, D. J. Repeta (2006). Influence of Grazing and Viral Infection on the Production of Dissolved Organic Matter. Ocean Sciences winter meeting, Honolulu, HI. February 20-24.
- Repeta, D. J.** (2006). Coupling dissolved organic matter composition and microbial diversity. Special Symposium on the metabolic balance in the sea. Univ. of Hawaii. July 27.
- Repeta, D. J.** (2007). Characterization of Dissolved Organic Matter in the Santa Barbara Basin. Virginia Institute of Marine Sciences, Gloucester Point, VA. November 14.
- Repeta, D. J.,** and J. Moffett (2007). Characterization of iron binding organic ligands in seawater. ASLO winter meeting, Santa Fe, NM. February 4-9.
- Repeta, D. J.** (2007). Iron binding organic ligands in seawater, are siderophores part of the mix? GSO, Univ. of Rhode Island. March 28.
- Repeta, D. J.** (2007). Iron binding organic ligands in seawater, are siderophores part of the mix? Department of Chemistry, Brown University. April 2.
- Jones, V., B. Van Mooy, M. Weinbauer, **A. Gogou,** M. J. Collins, C. Migon, and D. J. Repeta (2007). Degradation of Dissolved Organic Matter: Chemical changes and the structure of the microbial community. 38th CIESM Congress, Istanbul, Turkey. April 9-13.

- Repeta, D. J.** (2007). Iron binding organic ligands in seawater, are siderophores part of the mix? Old Dominion University, Norfolk, VA. November 29.
- Repeta, D. J.** (2008). Dissolved organic matter and microbial biogeochemical cycles. Monterey Bay Aquarium and Research Institute, Moss Landing, CA. January 14.
- Repeta, D. J.** (2008). Biogeochemistry of iron binding organic ligands in seawater. Univ. of Hawaii. June 11.
- Repeta, D. J. (2008). Effect of dissolved organic matter fractionation on microbial utilization in the ocean (poster presentation). Ocean Carbon and Biogeochemistry Summer Workshop, Woods Hole, MA. July 21-24.
- Romera-Castillo, C., M. Nieto-Cid, X. A. Álvarez-Salgado, D. Repeta, and C. Marrasé (2008). Optical Properties of Seawater High-Molecular-Weight Ultrafiltered Dissolved Organic Matter (poster presentation). AGU Chapman Conference on Organic Matter Fluorescence. Univ. of Birmingham, UK. October 20-23.
- Nieto-Cid, M. and D. J. Repeta (2008). Effect of dissolved organic matter fractionation on microbial utilization in the deep ocean (poster presentation). IMBER IMBIZO, Bathypelagic workshop. Miami, Florida (USA). November 9-13.
- Repeta, D. J.** (2009). An overview of DOM cycling and composition in the deep ocean (*invited*). IMBER-IMBIZO, Bathypelagic workshop. Miami, FL. November 9-13.
- Nieto-Cid, M.** and D. J. Repeta (2009). DOM-bacterial interactions in the deep sea. IMBER IMBIZO, Bathypelagic workshop. Miami, FL. November 9-13.
- Panagiotopoulos, C.,** D. J. Repeta, and J.-F. Rontani (2009). Novel sugar compounds isolated from high molecular weight dissolved organic matter (HMWDOM). IMBER IMBIZO, Bathypelagic workshop. Miami, FL. November 9-13.
- Tamburini, C.,** M. B. Charrière, P. Cuny, M. Garel, M. Goutx, G. Grégori, V. Grossi, C. Guigue, D. L. Kirchman, C. Lee, D. Lefèvre, D. J. Repeta, R. Sempéré, and S. Wakeham (2009). Pressure effects on mineralization of the organic matter by prokaryotes in meso- and bathypelagic waters of the ocean. IMBER IMBIZO, Bathypelagic workshop. Miami, FL. November 9-13.
- Gogou, A.,** V. Jones, T. Meador, C. Migon, G. Spyres, G. Herndl, B. Van Mooy, M. G. Weinbauer, D. De Corte, T. Yokokawa, M. M. Varela, A. Kaiserii, H. Agogue, D. J. Repeta. DOC/N (2009). Distributions, UDOM, chemical composition and heterotrophic diversity in the mesopelagic & bathypelagic zones of the Mediterranean Sea. IMBER IMBIZO, Bathypelagic workshop. Miami, FL. November 9-13.
- Sempéré, R. C.,** C. Panagiotopoulos, C. Tamburini, D. J. Repeta, M. Eichinger, and B. Charriere (2009). Dissolved organic matter (DOM) distribution and dynamics in the mesopelagic water column. IMBER IMBIZO, Bathypelagic workshop. Miami, FL. November 9-13.
- Hansell, D. A.,** C. A. Carlson, D. J. Repeta, and R. Schlitzer (2009). Deep ocean sinks for dissolved organic carbon. ASLO winter meeting, Nice, France. January 25-30.
- Meador, T. B.,** V. Jones, A. Gogou, C. Migon, G. Spyres, G. Herndl, K. Perleman, M. J. Collins, and D. J. Repeta (2009). Connecting DOM composition and biogeochemical variability in the Mediterranean Sea. ASLO, Nice, France. January 25-30.
- Repeta, D. J.** (2009). Dissolved organic matter cycling in the MacKenzie River. Workshop on the MacKenzie River and the Arctic. Woods Hole, MA. May 25-26.
- Repeta, D. J.** (2009). Marine Organic Geochemistry. Woods Hole Partnership Educational Program. Sea Education Association, Woods Hole, MA. June 3.
- Repeta, D. J.** (2009). Dissolved organic matter, microbial metabolism and microbial diversity from >1000 to 32 Daltons. Agouron Foundation Symposium on Variability in the Ocean as a Microbial Habitat. SOEST, Univ. Hawaii. June 13.
- Repeta, D. J.** (2009). Linking microbial diversity and metabolism to dissolved organic matter composition. Centre d'Océanologie de Marseille, Marseilles, France. June 23.
- Repeta, D. J.** (2009). Iron binding organic ligands in seawater, are siderophores part of the mix? Centre d'Océanologie de Marseille, Marseilles, France. July 1.

- Repeta, D. J.** (2009). Iron binding organic ligands in seawater. Ocean Biogeochemistry Workshop. Woods Hole, MA. July 22.
- Nieto-Cid, M., J. W. Becker, and D. J. Repeta. Highlighting collaborations with D. Viviani, M. Church, D. Karl, J. Brum, G. Steward, R. Paerl, J. Zehr (2009). Effect of dissolved organic matter fractionation on microbial utilization in the ocean. CMORE Annual All-hands meeting. Honolulu, Hawaii (USA). November 16-18.
- Becker, J. W., D. J. Repeta, M. S. Rappé, M. Nieto-Cid, J. Waterbury, and E. F. DeLong (2009). Microbial Cycling of Marine Organic Matter: Linking marine microbial production and consumption of dissolved organic matter. CMORE Annual All-hands meeting. Honolulu, Hawaii (USA). November 16-18.
- Álvarez-Salgado, X. A.**, C. Romera-Castillo, C., Lønborg, M. Nieto-Cid, C. Marrasé, C., and D. J. Repeta (2009). Optical properties of HMW-DOM and their transformation by heterotrophic activity in the oceans. SCOR WG 134 Marine Microbial Carbon Pump. Xiamen (China). Oct 28-30.
- DeLong, E. F.**, E. Ottesen, A. Sharma, Y. Shi, G. Tyson, F. Stewart, R. Malmstrom, S.W. Chisholm, J. Becker, and D. J. Repeta (2010). Deciphering microbial community dynamics via observational and experimental ‘metatranscriptomics’: developments and applications. DOE-BER Genomic Sciences (GTL) symposium, Arlington VA. February 7-10.
- Nieto-Cid, M.**, D. J. Repeta, and R.M. Holmes (2010). Lability of dissolved organic matter transported by Lena and Ob rivers to the Arctic Ocean. XV Seminario Ibérico de Química Marina. Vigo (Spain). February 22-24.
- Repeta, D. J.** (2010). Organic carbon cycling in the Arctic and climate change. Linden Ponds Retirement Community (public outreach event). May 9.
- Becker, J. W., D. J. Repeta, M. S. Rappé, M. Nieto-Cid, J. Waterbury, and E. F. DeLong (2010). Microbial Cycling of Marine Dissolved Organic Matter: Linking marine microbial production and consumption of dissolved organic matter (poster presentation). Univ. Hawaii, CMORE- NSF Site Visit. February 1-3.
- Shi, Yanmei, Gene Tyson, John Eppley, and E. F. DeLong (2010). Community transcriptomic surveys reveal gene expression and regulation of marine microbial assemblages (poster presentation). Univ. Hawaii, CMORE- NSF Site Visit. Feb. 1-3.
- Ventouras, L. A., K. Munson, M. Nieto-Cid, D. J. Repeta, and E. F. DeLong (2010). Experimental Transcriptomics: Marine Microbial Community Response to Additions of Iron-Bound Organic Ligands (poster presentation). Univ. Hawaii, CMORE- NSF Site Visit. February 1-3.
- Meador, T. B., D. Repeta, C. Johnson, S. Dyhrman, S. T. Haley, A. Heitoff, and E. D. Orchard (2010). Dissolved organic phosphorus: Isolation and chemical characterization (poster presentation). Univ. Hawaii, CMORE- NSF Site Visit. February 1-3.
- Follett, C. F.**, D. J. Repeta, and D. H. Rothman (2010). The Age Distribution of Dissolved Organic Carbon in the Deep Ocean and its Relation to Current Flux Estimates. ASLO Ocean Sciences Meeting. Feb. 22-26.
- Becker, J. W.**, D. J. Repeta, M. S. Rappé, M. Nieto-Cid, J. Waterbury, and E. F. DeLong (2010). Microbial Cycling of Marine Dissolved Organic Matter: Linking marine microbial production and consumption of dissolved organic matter. ASLO Ocean Sciences meeting. February 22-26.
- Meador, T. B.**, D. J. Repeta, C. Johnson, and S. Dyhrman (2010). Dissolved organic phosphorus: Isolation and chemical characterization. ASLO winter meeting. February 22-26.
- Becker, J. W.**, D. J. Repeta, M. S. Rappé, C. G. Johnson, P. M. Berube, S. W. Chisholm, and J. B. Waterbury (2012). Characterization and lability of dissolved organic matter produced by marine phytoplankton: Linking biological and chemical diversity. Ocean Sciences winter meeting, Salt Lake City, UT. February 20-24. (ASLO outstanding Student Presentation Award).
- Boiteau, R., J. Fitzsimmons, D. J. Repeta, E. A. Boyle, J. Waterbury, C. Suffridge, E. Webb, P. Berube, S. Chisholm, and James Moffett (2012). HPLC-ICP-MS Characterization of trace metal organic ligands in cultures and seawater (poster presentation). Ocean Sciences winter meeting, Salt Lake City, UT. February 20-24.

- Follett, C. L., D. J. Repeta, D. H. Rothman, D. Forney, and L. Xu (2012). Hidden cycling of dissolved organic matter in the ocean (poster presentation). Ocean Sciences winter meeting, Salt Lake City, UT. February 20-24.
- Sharma, Adrian, Jamie Becker, Jessica Bryant, Elizabeth Ottesen, Daniel Repeta, and Edward DeLong (2012). Effects of dissolved organic matter on microbial community growth, succession, and gene expression. CMORE Site visit and annual meeting. Univ. Hawaii, Honolulu, May 2-4.
- Boiteau, Rene, Jessica Fitzsimmons, Edward Boyle, John Waterbury, Chris Suffridge, Eric Webb, Paul Berube, Sallie Chisholm, and James Moffett (2012). Characterization of trace metal organic ligands in cultures and seawater by HPLC-ICP-MS. CMORE Site visit and annual meeting. Univ. Hawaii, Honolulu, May 2-4.
- Follett, C. L.**, D. J. Repeta, and D. H. Rothman (2012). Organic carbon degradation in marine sediments. So complex it is simple? Emerging topics in biogeochemical cycling workshop, MSU, Hattiesburg, MI. May 12-14.
- Sharma, A. K., J. W. Becker, J. A. Bryant, E. A. Ottesen, D. J. Repeta, and E. F. DeLong (2012). Effects of dissolved organic matter on microbial community growth, succession, and gene expression. American Society of Microbiology, Annual Meeting, San Francisco, CA. June 16-19.
- Becker, J. W.**, D. J. Repeta, M. S. Rappé, C. G. Johnson, P. M. Berube, S. W. Chisholm, and J. B. Waterbury (2012). Characterization and lability of dissolved organic matter produced by marine phytoplankton: Linking biological and chemical diversity. Gordon Conference in Marine Microbiology, Lucca, Italy, June 24-29.
- Sharma, A. K., J. W. Becker, J. A. Bryant, E. A. Ottesen, D. J. Repeta, and E. F. DeLong (2012). Effects of dissolved organic matter on microbial community growth, succession, and gene expression (poster presentation). Gordon Conference in Marine Microbiology, Lucca, Italy, June 24-29. Outstanding student poster award.
- Boiteau, R., J. Fitzsimmons, D. J. Repeta, E. A. Boyle, J. Waterbury, S. Chisholm, and J. Moffett (2012). HPLC-ICP-MS Characterization of trace metal organic ligands produced by marine microbes (poster presentation). Gordon Conference in Marine Microbiology, Lucca, Italy, June 24-29.
- Luria, C. M., L. A. Amaral-Zettler, H. W. Ducklow, D. J. Repeta, and J. J. Rich (2012). Dissolved organic matter and sea ice dynamics may explain changes in microbial community structure along the Western Antarctic Peninsula (poster presentation). ISME 14, Copenhagen, Denmark. August 19-24.
- Repeta, D. J.**, E. DeLong, O. Sosa, S. Gifford, and R. Boiteau (2013). Small cells do big things; how marine microbes drive the carbon cycle (invited talk). Natural Energy Laboratory Authority of Hawaii, Science Seminar Series. February 14, 2013.
- Gifford, S.**, R. Boiteau, O. Sosa, D. Repeta, and E. DeLong (2013). Marine Microbiology: observing the bacteria that drive the earth's biogeochemical cycles. Tech Hui Society, Kileua-Kona, Hawaii. February 25.
- Weber, L., A. Apprill, and D. J. Repeta (2013). Exploring the composition of coral mucas, a major nutrient source to oligotrophic reefs (poster presentation). Dalio Foundation Science symposium. Woods Hole, MA. May 10.
- Sosa, O., S. Gifford, D. Repeta, and E. DeLong (2013). Dilution-to-extinction screening of a coastal microbial community to identify isolates degrading high-molecular-weight dissolved organic matter (poster presentation). Amer. Soc. Microbiol., May 18-21.
- Gifford, S., O. Sosa, D. Repeta, and E. DeLong (2013). Methylophils Dominate Dilution-to-Extinction Cultures Enriched with Marine Dissolved Organic Matter (poster presentation). Amer. Soc. Microbiol., May 18-21.
- Follett, C. L., D. J. Repeta, D. H. Rothman, and L. Xu (2013). Hidden cycle of dissolved organic carbon in the ocean (poster presentation). Ocean Carbon and Biogeochemistry Summer Workshop. Woods Hole, MA. July 22-25.
- Boiteau, R., D. Repeta, J. Fitzsimmons, E. Boyle, and S. W. Chisholm (2013). Iron ligands produced by *Prochlorococcus* (poster presentation). Ocean Carbon and Biogeochemistry Summer Workshop. Woods Hole, MA. July 22-25.

- Boiteau, R., D. Repeta, J. Fitzsimmons, E. Boyle, S. W. Chisholm (2013). Analysis of iron-organic ligand complexes in the marine cyanobacteria *Prochlorococcus* and seawater by HPLC-ICP-MS (poster presentation). Gordon Research Conference in Chemical Oceanography. August 4-9.
- Repeta, D. J.** (2013). Microbial cycling of dissolved organic matter. Dept. of Civil and Environmental Engineering, MIT. Cambridge, MA. November 6.
- Repeta, D. J. and C. Panagiotopolous (2014). Spectral and chromatographic characterization of acylated polysaccharide (APS) in high molecular weight marine DOM. (poster presentation) Ocean Sciences Meeting, Honolulu, HI. February 23-28.
- Becker, J. W.**, E. F. DeLong, D. J. Repeta, M. S. Rappe, P. M. Berube, and S. W. Chisholm (2014). Transcriptional profiling of marine bacteria cultured in the presence of *Prochlorococcus* derived dissolved organic matter. Ocean Sciences Meeting, Honolulu, HI. February 23-28.
- Boiteau, R., D. J. Repeta, J. Fitzsimmons, and E. A. Boyle (2014). Characterization of marine organic trace metal ligands with high pressure liquid chromatography-mass spectrometry (poster presentation). Ocean Sciences Meeting, Honolulu, HI. February 23-28.
- Sosa, O.**, S. Gifford, E. DeLong, and D. J. Repeta (2014). Isolation and growth of bacteria with high molecular weight dissolved organic matter. Ocean Sciences Meeting, Honolulu, HI. February 23-28.
- Rii, Y. M., S. Duhamel, R. R. Bidigare, M. J. Church, D. M. Karl, and D. J. Repeta (2014). Contribution of photosynthetic picoeukaryotes to primary production in biogeochemical distinct regions of the eastern South Pacific Ocean (poster presentation). Ocean Sciences Meeting, Honolulu, HI. February 23-28.
- Boiteau, R.** and D. J. Repeta (2014). Characterization of Marine Siderophores. Laboratoire de Chimie Analytique Bio-inorganique et environnement. Pau, France. May 16.
- Boiteau, R. and D. J. Repeta (2014). Identifying trace metal metabolites from marine cyanobacteria (poster presentation). Am. Soc. Mass. Spec. annual conference. June 15-19.
- Repeta, D. J. (2014) Microbial cycling of dissolved organic matter (oral presentation). Simons Foundation, New York City. Dec. 4.
- Repeta, D. J. (2014). Investigating dissolved organic matter cycling in the microbial loop (oral presentation). University of Hawaii, GBMF Site visit. Dec.15.
- Boiteau, R. and D. J. Repeta (2015). A Mass spectral Window into Marine Iron Speciation (oral presentation). Princeton University Environmental Geology and Geochemistry Seminar. Feb. 12.
- Repeta, D.J. (2015) Microbial carbon cycling, climate change, and the role of iron limitation in the marine food web. (oral presentation) Natural Energy Laboratory, Hawaii Authority. Feb. 18, 2015.
- Santinelli, C., C. Follett, S. Retelletti,-Brogi, L. Xu, and D. J. Repeta (2015). Radiocarbon data open new and intriguing questions about DOM dynamics in the Mediterranean Sea (oral presentation). ASLO, Feb. 25.
- Repeta, D. J. (2015). Microbial cycling of dissolved organic nutrients at Station ALOHA (oral presentation). University of Hawaii, SCOPE annual meeting. March 19.
- Boiteau, R., and D. J. Repeta (2015). Investigating Marine Metal Speciation by LC-ICPMS-ESIMS (oral presentation). SCOR WG 139 ligand symposium in Sibinik, Croatia. April 8.
- Santinelli, C. and D. J. Repeta (2015). Dissolved organic matter (DOM) dynamics in the Mediterranean Sea. An intriguing aspect of the marine carbon cycle (oral presentation). Laboratoire PROTEE, Université de Toulon, May 12.
- Repeta, D. J. (2015). The marine carbon cycle: reservoirs, inventories, and fluxes (oral presentation). University of Hawaii CMORE/Agouron summer course in microbial oceanography. May 27.
- Repeta, D. J. (2015). Microbial cycling of dissolved organic matter (oral presentation). University of Hawaii CMORE/Agouron summer course in microbial oceanography. May 29.
- Repeta, D. J. (2015). The biogeochemistry of iron binding organic ligands in the sea. Are siderophores part of the mix (oral presentation). University of Hawaii, symposium on microbial oceanography. May 30.
- Lin, H.-T., D. J. Repeta, M. Rappé, and J. Cowen (2015). Characteristics of DOC in anoxic ridge-flank basaltic aquifer (poster). Gordon Conference in Chemical Oceanography, July 27.

- Zigah, P., D. J. Repeta, A. McNichol, S. Beaupre, and L. Xu (2015). Constraining the radiocarbon distribution within major components of marine dissolved organic carbon (poster). Gordon Conference in Chemical Oceanography, July 27.
- Boiteau, R., D. Repeta, N. Hawco, M. McIlvin, and M. Saito (2015). Siderophore adaptations across the Equatorial Pacific (poster). Gordon Conference in Chemical Oceanography, July 27.
- McLean, C., R. Boiteau, R. Bundy, J. Gauglitz, and D. J. Repeta (2015). Isolation and Characterization of iron binding ligands from marine bacteria (poster). WHOI SSF Poster session, August 6.
- Layo, D., S. Ferron, D. Karl, and D. J. Repeta (2015). Exploring phosphorous-containing DOM in the North Pacific subtropical gyre. (poster) WHOI SSF Poster session, August 6.
- Boiteau, R., and D. J. Repeta (2015). Unveiling the secrets of iron chemistry and microbial adaptations by mass spectrometry (oral presentation). University of Southern California. August 18.
- Repeta, D. J.** (2015). Microbial cycling of dissolved organic matter (oral presentation). Simons Foundation, New York City. December 5.
- Repeta, D. J.**, R. M. Boiteau, M. R. Mende, and E. F. Delong (2016). Microbes adapt to iron scarcity through siderophore production across the eastern tropical Pacific Ocean (oral presentation). AGU/ASLO Ocean Sciences Meeting, New Orleans. February.
- Bundy, Randelle M.**, Rene M. Boiteau, and Daniel J. Repeta (2016). Distinct Iron-binding Ligands in the Upper Water Column at Station ALOHA (oral presentation). AGU/ASLO Ocean Sciences Meeting, New Orleans. February.
- Boiteau, Rene**, D. J. Repeta, K. Bruland, B. Twining, S. Baines, J. Fitzsimmons, and Kristen Buck. (2016). Revealing sources and chemical identity of iron ligands across the California Current System. AGU/ASLO Ocean Sciences Meeting, New Orleans. February.
- Zigah, Prosper**, D. J. Repeta, A. McNichol, S. Beaupre and Li Xu (2016). Constraining the radiocarbon distribution within major components of marine dissolved organic carbon (oral presentation). AGU/ASLO Ocean Sciences Meeting, New Orleans. February.
- Sosa, Oscar**, D. J. Repeta, S. Ferron, D. Mende, E. DeLong, and D. M. Karl (2016). Bacterial degradation of phosphonates bound to high-molecular-weight dissolved organic matter (DOM) produces methane and other hydrocarbons (oral presentation). AGU/ASLO Ocean Sciences Meeting, New Orleans, February.
- Sherwood, Byron P., Oscar Sosa, Craig E. Nelson, Daniel Repeta, and Edward DeLong (2016). Lability of high molecular weight dissolved organic matter polysaccharides increases with mild acid or base treatment (poster presentation). AGU/ASLO Ocean Sciences Meeting, New Orleans, February.
- Tamburini, C., M. Boutrif, M. Garel, R. Sempéré, D. Repeta, B. Charriere, D. Nerini, and C. Panagiotopoulos (2016). Prokaryotic degradation of high molecular weight dissolved organic matter in the deep-sea waters of NW Mediterranean Sea under *in situ* temperature and pressure conditions during contrasted hydrological conditions (poster presentation). AGU/ASLO Ocean Sciences Meeting, New Orleans, February.
- Whalen, K. E., R. W. Deering, D. C. Rowley, A. El-Gamal, M. Schorn, B. S. Moore, R. M. Boiteau, D. J. Repeta, C. J. Kirby, M. D. Johnson, T. J. Mincer, and E. L. Harvey (2016). Bacterial infochemicals are drivers of algal lysis (poster presentation). AGU/ASLO Ocean Sciences Meeting, New Orleans, February.
- Whalen, Kristen**, R. Deering, D. Rowley, A. El Gamal, M. Schorn, B. Moore, R. Boiteau, D. Repeta, C. Kirby, M. Johnson, T. Mincer, and Elizabeth Harvey (2016). Louder than Words: Bacterial cell signals are drivers of algal lysis (invited oral presentation). Gordon Research Conference on Marine Natural products. March 6.
- Repeta, D. J.**, S. Ferron, O. Sosa, M. Acker, C. Johnson, D. M. Karl, and E. DeLong (2016). Methane, ethylene and the microbial cycling of dissolved organic phosphorus in mid-ocean gyres (oral presentation). University of California, Santa Cruz. May 6.
- Repeta, Daniel J.** (2016). Speciation and distribution of trace metal complexes in seawater and particulate matter from the GEOTRACES equatorial tropical Pacific zone (oral presentation). OCB-

- GEOTRACES Biogeochemical cycling of trace elements in the ocean: A synthesis workshop. LDEO, New York. August 2.
- Repeta, Daniel J.** (June 13, 2018). Phosphorus and the marine methane paradox, SSF Lecture Series.
- Valentin-Alvarado, Luis,** Lydia Babcock-Adams, Rene Boiteau, Matthew R McIlvin, Dawn Moran, Mak Saito and Daniel Repeta, Putative iron ligands production in marine Cyanobacteria. IMBIZO/IMBER 2017. Woods Hole, MA, October 3, 2017.
- Babcock Adams, L.,** and D. J. Repeta Trace metal ligands at Station ALOHA. SCOPE annual meeting, NYC, NY. December 4-7, 2017.
- Acker, Marianne,** Shane Lahman Hogle, Paul Berube, Carl Johnson, Sallie W Chisholm and Daniel Repeta Dissolved organic phosphorus cycling at Station ALOHA. SCOPE annual meeting, NYC, NY. December 4-7, 2017.
- Jingxuan Li,** Lydia Babcock-Adams, Rene Boiteau, Matthew McIlvin and D. J. Repeta. Characterization of dissolved iron binding ligands across the South East Pacific Ocean. AGU/ASLO/TOS Ocean Sciences Meeting. Portland, OR. February 11-15, 2018.
- Babcock-Adams, Lydia,** Luis Valentin-Alvarado, Rene Boiteau, Amy McKenna, Matthew McIlvin, John Waterbury, James Moffett and Daniel J. Repeta. Molecular characterization of copper binding ligands produced by the marine cyanobacterium *Synechococcus sp.* WH 7803 in response to increasing copper concentrations. AGU/ASLO/TOS Ocean Sciences Meeting. Portland, OR. February 11-15, 2018.
- Granzow, Benjamin,** Oscar Sosa, Margherita Gonnelli, Chiara Santinelli, David Karl and Daniel Repeta. Fast fluorescent bioassay for C-P lyase activity in marine microbes. AGU/ASLO/TOS Ocean Sciences Meeting. Portland, OR. February. 11-15, 2018.
- Hawco, Nicholas,** Seth John, Matthew Church, Daniel Repeta, Benedetto Barone, Alex Nelson, John Ranieri, Rachel Kelley, Lydia Babcock-Adams and Marianne Acker. Evaluating iron limitation scenarios for the deep chlorophyll maximum. AGU/ASLO/TOS Ocean Sciences Meeting. Portland, OR. February. 11-15, 2018.
- Acker, Marianne,** S. L. Hogle, P. Berube, C. Johnson, S. W. Chisholm, and D. J. Repeta. Phosphonate production by the marine cyanobacterium *Prochlorococcus*. AGU/ASLO/TOS Ocean Sciences Meeting. Portland, OR. February. 11-15, 2018.
- Li, Jingxuan,** Lydia Babcock-Adams, Rene Boiteau, Matthew McIlvin and D. J. Repeta. Characterization of dissolved iron binding ligands across the South East Pacific Ocean. GEOTRACES workshop on metal speciation. Xiamen, China, May 12-17, 2018.
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