

BENJAMIN A. S. VAN MOOY*Associate Scientist*

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Department of Marine Chemistry and Geochemistry
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Telephone: 508-289-2322**Fax:** 508-457-2164**Email:** bvanmooy@whoi.edu**Home page:** www.whoi.edu/people/bvanmooy**EDUCATION:****B.A.:** June, 1995. Chemistry and Geological Sciences (Honors). Northwestern University.

Advisors: David Hollander and Brad Sageman

Thesis: *Skeletal limestones of the Cretaceous Western Interior Seaway.***M.S.:** June, 2000. Chemical Oceanography. University of Washington.

Advisor: Richard G. Keil.

Thesis: *Impact of suboxia on the degradation of amino acids in sinking POC.***Ph.D.:** December, 2003. Chemical Oceanography. University of Washington.

Advisor: Allan H. Devol.

Thesis: *Carbon and phosphorus cycling by phylogenetically-defined groups of bacteria in the North Pacific Ocean.***PROFESSIONAL EXPERIENCE:**

Associate Scientist, Woods Hole Ocean. Inst., Dept. Mar. Chem. & Geochem, 2008-present.

Assistant Scientist, Woods Hole Ocean. Inst., Dept. Mar. Chem. & Geochem, 2004-2008.

Postdoctoral Scholar, Woods Hole Ocean. Inst., Dept. Mar. Chem. & Geochem, 2004.

Research Assistant, University of Washington, School of Oceanography, 1998 – 2003.

Research Technician, Northwestern University, Dept. of Geological Sciences, 1996-1998.

REU Scholar, Carnegie Institution of Washington, Geophysical Laboratory, 1995.

Laboratory Assistant, Northwestern University, Dept. of Geological Sciences, 1993-1995.

AWARDS AND RECOGNITION:Faculty of 1000, Biology. Recommended Paper. Critical recognition of Van Mooy et al., (2009) paper in *Nature*. 2009.Faculty of 1000, Biology. Must Read Paper. Critical recognition of Van Mooy et al., (2006) paper in *Proceeding of the National Academy of Sciences*. 2006.Faculty of 1000, Biology. Recommended Paper. Critical recognition of Van Mooy et al., (2004) paper in *Environmental Microbiology*. 2005.

Postdoctoral Award at Woods Hole Oceanographic Institution. Supported postdoctoral position. Advisors: D. Repeta and K. Edwards, 2003.

National Estuarine Research Reserve Graduate Assistantship (NOAA). Funding for research of organic matter cycling in the sediments of Padilla Bay, Washington, 2000.

NSF Graduate Research Award. Honorable mention for proposal to study organic matter cycling on continental margins, 1998.

Egvedt Scholarship. Awarded to incoming graduate student at the School of Oceanography of high academic potential, 1998.

NSF REU Scholarship. Supported summer research at the Geophysical Laboratory, Carnegie Institution of Washington, 1998.

Schlanger Undergraduate Earth Sciences Award. Recognizes superior scholarship in the Department of Geological Sciences, Northwestern University, 1995.

Charles Hurd Scholarship for undergraduate research. Competitive grant for undergraduate research at Northwestern University, 1993.

PROFESSIONAL AFFILIATIONS:

Member, American Oil Chemists Society, 2009-present
Member, American Geophysical Union, 1997-present
Member, American Society for Limnology and Oceanography, 1997-present
Member, American Society for Microbiology, 2004-present

RESEARCH INTERESTS:

Microbial phosphorus and organic carbon cycling in marine and aquatic environments.
Membrane glycerolipids and sphingolipids in plankton, sediments, and marine biofilms.
Algal biofuels.
Cell-cell signaling in marine biofilms and particles.

PROFESSIONAL ACTIVITIES:

WHOI (Non Education Related):

Search Committee for Marine Chemistry and Geochemistry Assistant Scientist. 2006-2007.
Radiation Safety Committee. 2007.
VERTIGO PI Meeting. 2006.
Search Committee for WHOI Vice President for Academic Programs and Dean. 2004-2005.

Outside WHOI:

Panelist: NSF Chemical Oceanography Review Panel. 2009.
Panelist: NSF Chemical Oceanography Review Panel. 2007.
International Reviewer: Institut français de la Biodiversité. 2007 & 2008
Invited Investigator. Centre d'Océanologie de Marseille. 2006
Session Convener. Biogeochemistry of planktonic phosphorus cycling: Genes to geochemical cycles. *Ocean Sciences Meeting*. Honolulu, Hawaii, 2006.
BIOSCOPE PI Meeting. Observatoire Océanologique de Villefranche, Villefranche-sur-mer, France.
Invited Investigator. Photosynthesis Laboratory, Czech Academy of Sciences, 2005.
Invited Attendee. Dark energy: the deep oceanic biosphere. Woods Hole Oceanographic Institution. Woods Hole, Massachusetts, 2004.
Session Leader. Upper ocean plankton dynamics. *Ocean Sciences Meeting*. Portland, Oregon, 2004.
Journal Reviewer. *Applied and Environmental Microbiology, Aquatic Biology, Aquatic Microbial Ecology, Deep-Sea Research I & II, Environmental Microbiology, Geochimica et Cosmochimica Acta, Limnology and Oceanography, Limnology and Oceanography Methods, Marine Ecology Progress Series, Organic Geochemistry, Nature Geoscience.*

PARTICIPATION IN EDUCATION PROGRAM:

Advisor for MIT/WHOI Joint Program Student L. Hmelo. 2005-present.
Advisor for MIT/WHOI Joint Program Student K. Pependorf. 2007-present.
Committee Member, Hunter Oates, MC&G Masters student. 2007-2008.
Committee Member, Jennifer Culbertson. Boston University Ph.D. Student 2005-2007.
Committee Member, Peter Smyntek. SUNY ESF Ph.D. Student. 2007.
Instructor, Marine Chemistry. With S. Doney. 2007, 2008, 2009..
Instructor, Marine Chemistry Seminar - Classic papers in chemical oceanography. With D. Repeta. 2006.
Adviser to 2005 class of MC&G JP students. With W. Martin. 2005-present.
Guest lecturer, Marine Organic Geochemistry class. 2005 and 2007.

Guest lecturer, Phytoplankton Seminar. 2007.

SUPERVISION AT WHOI:

Helen Fredricks, Research Associate II. 2004-present.
Krista Longnecker, WHOI Postdoctoral Fellow. 2007-2009. (Now Res. Assoc. at WHOI)
Laura Hmelo, MIT/WHOI Joint Program Student. 2005-present.
Kimberly Popendorf, MIT/WHOI Joint Program Student. 2007-present.
Justin Ossolinski, Research Assistant III. 2007-present.
Timothy Shanahan, WHOI Postdoctoral Scholar. 2006-2008 (now Asst. Prof. University of Texas).
Byron Pedler, Research Assistant II. 2006-2007 (now Ph.D. student at Scripps Institution of Oceanography).
Katie Barott, Research Assistant II. 2006-2007 (now Ph.D. student at San Diego State).
Nick Ward. WHOI Summer Student Fellow. 2007(now Ph. D. student at University of Washington, School of Oceanography).
Kimberly Popendorf. WHOI Summer Student Fellow. 2005.
Michael Kentris. Guest Student. 2006.
Bei Zhao. Guest Student. 2005.
Olivia Kurz. Part-time helper. 2006.
Pia Hugus. Part-time helper. 2004.
Suzanne Crabtree. Volunteer. 2005.

CRUISE PARTICIPATION (* Chief Scientist):

*Clayquot Sound, North Pacific, 2009.
Atlantis Deep, Red Sea. 2008
*Nova Scotia to Bermuda transect, North Atlantic. 2008.
Bermuda to Puerto Rico, Sargasso Sea. 2007.
Mode water eddy, Sargasso Sea. 2007.
* Massachusetts shelf break, North Atlantic. 2005
Easter Island to Concepcion, Chile; South Pacific. 2004.
Hawaiian Ocean Time-Series cruise #161; North Pacific. 2004.
Hawaiian Ocean Time-Series cruise #157; North Pacific. 2004.
Hawaiian Ocean Time-Series cruise #150; North Pacific. 2003.
Hawaiian Ocean Time-Series cruise #140; North Pacific. 2002.
Orca Basin; Gulf of Mexico. 2002.
* Carr Inlet, Puget Sound Washington, 2002.
Transect off Washington coast; North Pacific. 2001.
*Saanich Inlet, B.C.; Strait of Georgia. 2001.
*Saanich Inlet, B.C.; Strait of Georgia . 2000.
* Carr Inlet, Washington; Puget Sound. 2000.
Eastern tropical North Pacific; 2000.
Orca Basin; Gulf of Mexico. 1997.
Sargasso Sea; North Atlantic. 1995.

PAPERS IN REFEREED JOURNALS:

Vardi A., **Van Mooy B. A. S.**, Fredricks H. F., Popendorf K. J., Ossolinski J. E., Haramaty L., and Bidle K. A. (2009) Viral glycosphingolipids induce lytic infection and cell death in marine phytoplankton. *Science* **326**, 861-865.

- Hmelo, L and **Van Mooy, B.A.S.** (2009) Kinetic constraints on acylated homoserine lactone-based quorum sensing in marine environments. *Aquat. Microb. Ecol.* 54:127-133.
- Van Mooy, B.A.S.**, Fredricks, H.F., Pedler, B.E., Dyhrman, S.T., Karl, D.M., Koblížek, M., Lomas, M.W., Mincer, T., Moore, L.R., Moutin, T., Rappé, M.S., and Webb, E.A. (2009) Phytoplankton in the ocean substitute lipids in response to phosphorus scarcity. *Nature.* 458:69-72.
- Schouten, S., Hopmans, E. C., van der Meer, J., Mets, A., Bard, E., Bianchi, T. S., Diefendorf, A., Escala, M., Freeman, K. H., Furukawa, Y., Huguet, C., Ingalls, A., Ménot-Combes, G., Nederbragt, A. J., Oba, M., Pearson, A., Pearson, E. J., Rosell-Melé, Schaeffer, P., Shah, S. R., Smith, R. W., Smittenburg, R., Talbot, H. M., Uchida, M., **Van Mooy, B. A. S.**, Yamamoto, M., Zhang, Z., and Sinninghe Damsté, J. S.: (2009) An interlaboratory study of TEX86 and BIT analysis using high-performance liquid chromatography-mass spectrometry. *Geochem. Geophys. Geosyst.*, 10, Q03012.
- Van Mooy, B.A.S.** and A.H. Devol (2008) Assessing nutrient limitation of *Prochlorococcus* in the North Pacific subtropical gyre by using an RNA capture method. *Limnol. Oceanogr.* 53:78-88.
- Van Mooy, B.A.S.**, Moutin, T., Duhamel, S., Rimmelin, P., and Van Wambeke, F. (2008) Phospholipid synthesis rates in the eastern subtropical South Pacific Ocean. *Biogeosciences* 5:95-109.
- Dehairs, F., S. Jacquet, N. Savoye, J. Bishop, **B. A. S. Van Mooy**, K. Buesseler, C. Lamborg, M. Elskens, P. Boyd, K. Casciotti and W. Baeyens (2008). Barium in twilight zone suspended matter as a proxy for particulate organic carbon mineralization: Results for the North Pacific. *Deep-Sea Research II.* 55:1673-1672.
- Elskens, M., N. Brion, K.O. Buesseler, **B.A.S. Van Mooy**, P. Boyd, F. Dehairs. N. Savoyes and W. Baeyens (2008). Primary, new and export production in the NW Pacific Subarctic Gyre during the VERTIGO K2 experiments. *Deep-Sea Res. II.* 55: 1594-1604.
- Ventura, G.T., Kenig, F., Frysinger, G.S., Reddy, C.M., Nelson, R.K., **Van Mooy, B.A.S.** and Gaines, R.B. (2008) Composition and formation of unresolved complex mixtures in Late Archaean sediments using comprehensive two-dimensional gas chromatography (GCxGC). *Org. Geochem.* 39:846-867.
- Steinberg, D.K., **B.A.S. Van Mooy**, K.O. Buesseler, P.W. Boyd, T. Kobari and D.M. Karl (2008). Microbial vs. zooplankton control of sinking particle flux in the ocean's twilight zone. *Limnol. Oceanogr.* 53:1327-1338.
- Moutin, T., Karl, D., Duhamel, S., Rimmelin, P., Raimbault, P. and **Van Mooy, B.** (2008) Phosphate availability: ultimate control of new nitrogen input by nitrogen fixation in the tropical Pacific Ocean. *Biogeosciences* 5:95-109.
- Duhamel, S., Moutin, T., Van Wambeke, F., **Van Mooy, B.**, Rimmelin, P. Raimbault, P. and Claustre, H. (2007) Growth and P-specific uptake rates of bacterial and phytoplanktonic communities in the Southeast Pacific (BISOSPE cruise). *Biogeosciences* 4:941-956.
- Dyhrman, S.T., Ammerman, J.W., and **Van Mooy, B.A.S.** (2007) Microbes and the marine phosphorus cycle. *Oceanography.* 20:110-116.
- Buesseler, K.O., Lamborg, C.H., Boyd, P.W., Lam, P.J., Trull, T.W., Bidigare, R.R., Bishop, J.K.B., Casciotti, K.L., Dehairs, F., Elskens, M., Honda, M., Karl, D.M., Siegel, D.A., Silver, M.W., Steinberg, D.K., Valdes, J., **Van Mooy, B.**, Wilson, S. (2007) Revisiting carbon flux through the ocean's twilight zone. *Science.* 316:567-570.
- Van Mooy, B.A.S.**, Rocap, G., Fredricks, H.F., Evans, C.T., and Devol, A.H. (2006) Sulfolipids dramatically decrease phosphorus demand by picocyanobacteria in oligotrophic marine environments. *Proc. Natl. Acad. Sci.* 103:8607-8612.
- Van Mooy, B.A.S.**, Devol, A.H., and Keil, R.G. (2004) Quantifying ³H-thymidine incorporation rates by a phylogenetically defined group of marine planktonic bacteria (*Bacterioidetes* phylum). *Environ. Microbiol.* 6: 1061-1069.
- Van Mooy, B.A.S.**, Devol, A.H., and Keil, R.G. (2004) Relationships between bacterial community structure, light, and carbon cycling in the eastern subarctic North Pacific. *Limnol. Oceanogr.* 49:1056-1062.
- Van Mooy, B.A.S.**, Keil, R.G. and Devol, A.H. (2002) Impact of suboxia on sinking particulate organic carbon: Enhanced carbon flux and preferential degradation of amino acids via denitrification. *Geochim. Cosmochim. Acta* 66: 457-465.

- Van Mooy, B.A.S.** and Keil, R.G. (2002) Seasonal variation in sedimentary amino acids and the association of organic matter with mineral surfaces in a sandy eelgrass meadow. *Mar. Ecol. Prog. Ser.* 227:275-280.
- Van Mooy, B.**, MacGregor, B., Hollander, D., Nealson, K., and Stahl, D. (2001) Evidence of tight coupling between bacteria and particulate organic carbon during seasonal stratification of Lake Michigan. *Limnol. Oceanogr.* 46:1202-1208.
- MacGregor, B.J., **Van Mooy, B.**, Baker, B.J., Mellon, M., Moisander, P.H., Paerl, H.W., Zehr, J., Hollander, D.J. and Stahl, D.A. (2001) Microbiological, molecular biological and stable isotope evidence for nitrogen fixation in the open waters of Lake Michigan. *Environ. Microbiol.* 3: 205-219.

PAPERS PRESENTED AT MEETINGS AND INVITED LECTURES*:

- * **Van Mooy, B.A.S.**, Boyd, P., Carlson, C., White, S. (2009) Assessing Bacterial Carbon Demand (and other Processes) in the Twilight Zone: Results from VERTIGO and Future Approaches. *AGU Chapman Conference – Biological Pump*. Southampton, UK.
- * Van Mooy, B.A.S. (2009) Microbial lipids as indicators of microbial processes and novel anti-fouling strategies in natural ship-hull biofilms. *ONR Coatings/Biofouling Program Review*. Portland, OR.
- Dyhrman, S T; Haley, S T; Wurch, L L; Ossolinski, J; **Van Mooy, B;** (2009) Expression of a nitrate transporter in cultures and field populations of the the coccolithophore *Emiliana huxleyi*. *ASLO Aquatic Sciences Meeting*, Nice, France.
- Vardi, A; **Van Mooy, B;** Fredricks, H; Haramaty, L; Bidle, K D; (2009) Virally-induced sphingolipids regulate host cell fate in the marine coccolithophore *Emiliana huxleyi*. *ASLO Aquatic Sciences Meeting*, Nice, France.
- Hmelo, L R; Mincer, T; **Van Mooy, B;** (2009) Characterization of epibiotic bacterial community associated with wild-type and laboratory cultured *Trichodesmium*. *ASLO Aquatic Sciences Meeting*, Nice, France.
- Van Mooy, B;** Fredricks, H F; Pedler, B E; Dyhrman, S T; Karl, D M; Koblizek, M; Lomas, M W; Mincer, T; Moore, L R; (2009) Phytoplankton in the oligotrophic ocean substitute phospholipids in response to phosphorus limitation on a global scale. *ASLO Aquatic Sciences Meeting*, Nice, France.
- Popendorf, K J; **Van Mooy, B A;** Fredricks, H F; Lomas, M W; Casey, J R; Johnson, C G; (2009) Functionally and taxonomically defined planktonic sources of intact polar lipids in the sea. *ASLO Aquatic Sciences Meeting*, Nice, France.
- ***Van Mooy, B.A.S.** (2008) Mass spectrometry-based study of microfouling community dynamics and cell-cell signaling in ship hull biofilms. *ONR Coatings/Biofouling Program Review*. Charleston, S.C.
- ***Van Mooy, B.A.S.** (2008). Phospholipid substitutions by phytoplankton are a universal adaptation to oligotrophy. *Marine Sciences Seminar*. University of Southern California.
- ***Van Mooy, B.A.S.** (2008). Phospholipid substitutions by phytoplankton are a universal adaptation to oligotrophy. *Marine Chemistry Seminar*. University of South Florida. St. Petersburg, Florida.
- Van Mooy, B.A.S.**, Fredricks, H.F., Pedler, B.E., Longnecker, K., Popendorf, K., Moutin, T., Van Wambeke, Koblížek, M., Prášil, O. (2008) Reexamining growth rates of heterotrophic bacteria in the open ocean by using a new membrane phospholipid tracing method. *Ocean Sciences Meeting*. Orlando, Florida.
- ***Van Mooy, B.A.S.** (2007). Phospholipid substitutions by phytoplankton are a universal adaptation to oligotrophy. *Chemical Oceanography Seminar*. Massachusetts Institute of Technology. Cambridge, Massachusetts.
- ***Van Mooy, B.A.S.** (2007) Mass spectrometry-based study of microfouling community dynamics and cell-cell signaling in ship hull biofilms. *ONR Coatings/Biofouling Program Review*. Monterey, California.
- ***Van Mooy, B.A.S.** (2007) Rapid Growth by Heterotrophic Bacteria in the Subtropical Gyres. *Department of Marine Chemistry and Geochemistry Seminar*. Woods Hole Oceanographic Institution. Woods Hole, Massachusetts.

- Hmelo, L.R., and **Van Mooy, B.A.** (2007) Investigation of acylated homoserine lactones in marine environments using electrospray-ionization mass spectrometry. *Aquatic Sciences Meeting*, Santa Fe, New Mexico.
- Steinberg, D.K., **Van Mooy, B.A.**, Buesseler, K.O., Boyd, P.W., Kobari, T., and Karl, D.M. (2007) Microbial vs. zooplankton control of sinking particle flux in the Ocean's twilight zone. *Aquatic Sciences Meeting*, Santa Fe, New Mexico.
- Van Mooy, B.**, Dyhrman, S., Fredricks, H., Pedler, B., Koblížek, M., Moore, L., Moutin, T., Brandon, M., Rappé, M., Rocap, G., Webb, E. (2007) Membrane lipid substitutions are a widely distributed and quantitatively significant biochemical mechanism for phytoplankton to alter nutrient requirements. *Aquatic Sciences Meeting*, Santa Fe, New Mexico.
- ***Van Mooy, B.A.S.** (2007) Turnover rates of phospholipids in the oligotrophic South Pacific: a signal of rapid microbial phosphorus cycling? *Special Seminar*. Centre d'Océanologie de Marseille, Marseille, France.
- Jones, V., **B. Van Mooy**, M. Weinbauer, A. Gogou, M.J. Collins, K. Penkman, C. Migon, D.J. Repeta. (2007) Degradation of dissolved organic matter: Chemical changes and the structure of the microbial community *38th CIESM Congress*, Istanbul, Turkey.
- ***Van Mooy, B.A.S.** (2006) Overview of graduate and summer programs at Woods Hole Oceanographic Institution. *Senior Seminar*. Barnard College, New York, New York.
- ***Van Mooy, B.A.S.** (2006) Mass spectrometry-enabled investigation of bacterial cell-cell signaling in the sea. *Brown Bag Seminar*. Barnard College, New York, New York.
- ***Van Mooy, B.A.S.** (2006) Bacterial cell-cell signaling molecules in marine environments. *ONR Progress Review, Northeast Region*. Woods Hole Oceanographic Institution. Woods Hole, Massachusetts
- ***Van Mooy, B.A.S.** (2006) Mass spectrometry-based study of bacterial community succession and cell-cell signaling in ship hull biofilms. *ONR Coatings/Biofouling Program Review*. Towson, Maryland.
- ***Van Mooy, B.A.S.** (2006) Sulfolipids dramatically decrease phosphorus demand by picocyanobacteria in oligotrophic marine environments: Implications for the Proterozoic Ocean. *Department of Geological Sciences Seminar*, Northwestern University, Evanston, Illinois.
- Van Mooy, B.A.S.** (2006) New data suggests that bacterial production is tenfold higher than current estimates. *Biogeochemistry Seminar*. Woods Hole Oceanographic Institution. Woods Hole, Massachusetts.
- Van Mooy, B.A.S.** and Devol, A.H. (2006) Taxon-specific phosphate incorporation in the North Pacific subtropical gyre: application of a quantitative RNA hybridization capture method. *Ocean Sciences Meeting*. Honolulu, Hawaii.
- Fredricks, H.F. and **Van Mooy, B.A.S.** (2006) Identifying new Biomarkers for Marine Plankton Using Liquid Chromatography - Mass Spectrometry. *Poster - Ocean Sciences Meeting*. Honolulu, Hawaii.
- Moutin, T., Duhamel, S., Rimmelin, P., Van Wambeke, F., **Van Mooy, B.**, Claustre, H. (2006) Phosphate Pools and Turnover Time in the South Pacific Gyre (BIOSOPE cruise 2004). *Ocean Sciences Meeting*. Honolulu, Hawaii.
- Popendorf, K and **Van Mooy, B.** (2006) A Liquid Chromatography/Mass Spectrometry-Enabled Study of Phosphatidylethanolamine: a Potential Proxy for the Turnover of Heterotrophic Bacterial Biomass. *Poster - Ocean Sciences Meeting*. Honolulu, Hawaii.
- Buesseler, K, Bishop, J, Casciotti, K, Dehairs, F, Lamborg, C, Siegel, D, Silver, M, Steinberg, D, Saito, S, Trull, T, Valdes, J, **Van Mooy, B** (2006) What We Know From VERTIGO. *Ocean Sciences Meeting*. Honolulu, Hawaii.
- ***Van Mooy, B.A.S.** (2006) Sulfolipids dramatically decrease phosphorus demand by picocyanobacteria in oligotrophic marine environments. *Earth and Planetary Science Department Seminar*, Harvard University, Cambridge, Massachusetts.
- ***Van Mooy, B.A.S.** (2005) Phospholipids in the Pacific Ocean. *Botany Seminar*. Czech Academy of Science. Ceske Budejovice, Czech Republic.
- ***Van Mooy, B.A.S.** (2005) Phospholipid synthesis by heterotrophic bacteria was a significant biochemical sink for plankton phosphorus uptake. *BIOSOPE Meeting*. Villefranche, France.

- Van Mooy, B.A.S.**, Devol, A.H., Fredricks, H.F., Moore, L., Moutin, T., Rocap, G., Van Wambeke, F., and Webb, E. (2005) Glycolipid Membranes Relieve Marine Picocyanobacteria of a Major Requirement for Phosphate. *ASLO Summer Meeting*, Santiago de Compostella, Spain.
- Van Mooy, B.A.S.** and Devol, A.H. (2005) RNA hybridization capture suggest N-limitation of *Prochlorococcus* during summer in the North Pacific Subtropical Gyre. *ASM General Meeting*, Atlanta.
- Van Mooy, B.A.S.**, Devol, A.H., and Fredricks, H.F. (2005) Nucleic acids and intact polar lipids as functional biomarkers of microbial processes in the surface ocean: implications for sedimentary records. *Aquatic Sciences Meeting*. Salt Lake City.
- Devol, A.H., **Van Mooy, B.A.S.*** and Keil, R.G. (2005) Relationships between bacterial community structure, light, and carbon cycling in the eastern subarctic North Pacific. *Aquatic Sciences Meeting*. Salt Lake City.
- ***Van Mooy, B.A.S.** (2004) The biochemical and microbiological fates of phosphate in oligotrophic marine systems. *Department of Chemical Oceanography Seminar*. Massachusetts Institute of Technology. Cambridge, Massachusetts.
- ***Van Mooy, B.A.S.** (2004) Taxon-specific DOC and phosphorus cycling in the North Pacific subtropical gyre. *Department of Marine Chemistry and Geochemistry Seminar*. Woods Hole Oceanographic Institution. Woods Hole, Massachusetts
- ***Van Mooy, B.A.S.** (2004) Genomes, ribosomes and membranes: tracing the fate of phosphorus in plankton. *Assembly of MIT-WHOI Joint Program Students*. Woods Hole Oceanographic Institution. Woods Hole, Massachusetts
- Van Mooy, B.A.S.**, Evans, C.T., and Devol, A.H. (2004) Phosphate uptake by phylogenetically-defined groups of picoplankton in the North Pacific Subtropical Gyre. *AGU Ocean Sciences Meeting*. Portland, Oregon.
- ***Van Mooy, B.A.S.** (2003) Carbon and phosphorus cycling by phylogenetically-defined groups of bacteria in the North Pacific Ocean. *Department of Chemical Oceanography Seminar*. University of Washington. Seattle, Washington.
- ***Van Mooy, B.A.S.** (2003) Tracing taxon specific growth in aquatic systems. *Large Lakes Observatory and Department of Chemistry Seminar*. University of Minnesota, Duluth. Duluth, Minnesota.
- ***Van Mooy, B.A.S.** (2003) Application of a novel DNA-tracing method to the study of carbon cycling by heterotrophic bacteria in the North Pacific. Geophysical Laboratory. Carnegie Institution of Washington. Washington, D.C.
- Van Mooy, B.A.S.**, Hullar, M.A., Devol, A.H., Stahl, D.A., Hollander, D.J., and Evans, C.T. (2003) Microbial fate of phosphate in the oligotrophic waters of the Gulf of Mexico. *Aquatic Sciences Meeting*. Salt Lake City.
- Devol, A.H., **Van Mooy, B.A.S.**, and Keil, R.G. (2002) Thymidine incorporation by specific bacterioplankton in Puget Sound, a quantitative, phylogenetically-based method to separate DNA. *ASLO Summer Meeting*. Victoria, B.C.
- Van Mooy, B.A.S.**, Grocock, J., Devol, A.H., and Keil, R.G. (2002) Bacterioplankton community structure affects response to bioavailable DOC in the eastern subarctic Pacific. *ASLO Summer Meeting*. Victoria, B.C.
- Van Mooy, B.A.S.**, Devol, A.H., and Keil, R.G. (2001) Planktonic bacteria and archaea in a coastal bay. *Aquatic Sciences Meeting*. Albuquerque.
- Van Mooy, B.A.S.**, Keil, R.G., and Devol, A.H. (2000) Enhanced Flux of POC in oxygen deficient waters: impact of suboxia on bulk OC and amino acids. *Gordon Research Conference, Organic Geochemistry*. Hanover.
- Van Mooy, B.**, Keil, R., Devol, A.H. (2000) Early Diagenesis of particles sinking through the oxygen-deficient waters of the northwest Mexican margin. *Ocean Sciences Meeting*. San Antonio.
- Van Mooy, B.**, Hollander, D., MacGregor, B., Stahl, D., Baker, B. and Nealson, K. (1998) Lipid and nucleic acid characteristics of POM: Analysis of water column carbon and nitrogen cycles in Lake Michigan. *Ocean Sciences Meeting*. San Diego.
- Hollander, D., **Van Mooy, B.**, Fogel, M., Aguilar, C., and Paerl, H. (1996) Does phosphate control isotopic fractionation by stimulating CO₂ pumping in diatoms? *Ocean Sciences Meeting*. San Diego.

Van Mooy, B. and Sageman, B. (1994) Origin of Cretaceous skeletal limestones: Western Interior U.S. *Geological Society of America, National Meeting*. Seattle.

GRANTS FROM NON-WHOI FUNDING SOURCES:

Van Mooy, B.A.S. (04/01/2009 to 03/31/2012) Applying Cell-Membrane Lipids as Indicators of Microbial Processes and Anti-Fouling Strategies in Natural Ship-Hull Biofilms. Office of Naval Research.

Van Mooy, B.A.S. and Mincer, T. (09/01/2008 to 08/31/2011) Quorum sensing and the carbon cycle: Identifying cell-density dependent organic carbon degradation among marine bacteria on sinking particles. National Science Foundation.

Van Mooy, B.A.S. and Saito, M. (06/01/2008 to 05/31/2010) Acquisition of a Triple Quadrupole Mass Spectrometer for Research and Education in Ship Hull Biofouling and Optical/Biological Oceanography. Department of Defense.

Van Mooy, B.A.S. (04/01/2007 to 03/31/2010) Sources and biogeochemical cycling of intact membrane lipids in the upper ocean. National Science Foundation.

Van Mooy, B.A.S. (10/01/2005 to 09/30/2008) Investigation of bacterial cell-cell signaling and community succession in ship hull biofilms. Office of Naval Research.

Hughen, K.A. and **Van Mooy, B.A.S.** (08/01/2005 to 07/31/2008) Calibration and reconstruction of temperature and precipitation change in arctic lakes. National Science Foundation.