

**SUSANNE NEUER, Ph.D.**  
**Professor**

School of Life Sciences  
Arizona State Univ.  
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**Education and Degrees**

Post-Doctorate, University of Bremen, Biogeochemistry, 10/1993-12/1995

PhD, Oregon State University, Biological Oceanography, 11/1992

MSc, University of Washington, Biological Oceanography, 12/1988

Diplom (equivalent to BS) in Biology, University of Kiel, 08/1986

**Professional employment**

07/ 2015 –present, Professor, School of Life Sciences, Arizona State University

07/2015- present, Associate Director, Graduate Programs, School of Life Sciences, Arizona State University

2009-2015, Associate Professor (tenured), School of Life Sciences, Arizona State University

2004-2009, Associate Professor (untentured), School of Life Sciences, Arizona State University

05-07/2003, 06-07/2004, Visiting Professor, Ocean Margin's Institute, Bremen, Germany

01/2001-05/2004, Visiting Assistant Professor, Dept. of Geological Sciences, ASU

04/2000-05/2004, Assistant Research Professor, Dept. of Biology, ASU

01/1996-03/2000, Research Associate, Dept. of Geosciences, Univ. of Bremen, Germany

Parental leave time: 12 months

**Leadership positions**  
(outside SoLS)

- Vice-Chair (2018) and Chair (2020), Gordon Research Conference on Ocean Biogeochemistry
- Associate Editor, Deep-Sea Research I, 08/2015-present
- Vice-chair, ASLO, Ocean Sciences Meeting 2016
- Member, Ocean Carbon and Biogeochemistry (OCB) Scientific Steering Committee, 2014-present
- Chair, Ocean Time-series Committee, a subcommittee of the OCB, 2014-present
- Past-President, ASU Faculty Women's Association, AY 2015/2016
- President, ASU Faculty Women's Association, AY 2014/2015

- President-elect, ASU Faculty Women's Association, AY 2013/2014
- Assistant Graduate Director, School of Life Sciences, ASU, 2013-2015
- Chair, Interdisciplinary PhD program "Environmental Life Sciences", ASU, 2009-2013
- President, Central Arizona Chapter, Association for Women in Science (AWIS), 5/2008-06/2010

**Awards**

- Fellow, Hanse Institute for Advanced Studies, Delmenhorst, Germany; May-July 2013; March-June 2011 (Sabbatical); May-July, 2000-2002
- Nominated, ASU College of Liberal Arts Teaching Award, 2012
- Nominated, ASU Founder's Day Faculty Research Award, 2010
- Outstanding Achievement Award, ASU Commission on the Status of Women, 2009
- Named Senior Sustainability Scientist, Global Institute of Sustainability, ASU, 2010
- Named Honors Disciplinary Faculty, Barrett's Honors college, 2005-present
- Fulbright-ITT Scholar, 1986-1988

**Membership in Professional Organizations**

- Association for the Sciences of Limnology and Oceanography (ASLO)
- American Geophysical Union (AGU)
- The Oceanography Society (TOS)
- American Association for the Advancement of the Science (AAAS)
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**Funding**

**Current**

12. EXOPLANETARY ECOSYSTEMS: EXPLORING LIFE'S DETECTABILITY ON CHEMICALLY DIVERSE EXOPLANETS. 10/1/14-9/30/19, \$7,994,891, NASA, Co-I (Lead: Steven Desch, SESE, 16 total Co-Is).

**Past**

11. COLLABORATIVE RESEARCH: PLANKTON COMMUNITY COMPOSITION AND TROPHIC INTERACTIONS AS MODIFIERS OF CARBON EXPORT IN THE SARGASSO SEA; 10/1/2010 – 9/30/14. NSF Biological Oceanography, ASU PI, with Dr. Tammi Richardson (lead PI, Univ. of South Carolina), Dr. Mike Lomas (Bermuda Institute of Ocean Sciences, now: Bigelow Institute for Ocean Sciences) and Dr. Rob Condon (Dauphin Island Sea Lab). Total funding amount: \$1.2 Mio, ASU portion: \$396,013.

10. COLLABORATIVE RESEARCH: SINKING RATES AND NUTRITIONAL QUALITY OF ORGANIC MATTER EXPORTED FROM SEA ICE; THE IMPORTANCE OF EXOPOLYMERIC SUBSTANCES; 1/1/2011-12/31/2013, NSF Polar Programs, ASU PI, with Dr. Andrew Juhl (Lead, Lamont Doherty Earth Observatory, Columbia University). Total funding amount: \$1.04 M. ASU portion: \$308,084.

9. FOLLOW THE ELEMENTS. NASA-ASTROBIOLOGY. \$7,517,436, 1/1/2009-12/31/2014, Co-I with lead PI Dr. Ariel Anbar, SESE, ASU (total of 14 Co-Is and 30 collaborators)

8. COMPOSITION OF THE PLANKTON COMMUNITY AND ITS CONTRIBUTION TO PARTICLE FLUX IN THE SARGASSO SEA; 5/1/2008 – 4/30/12, \$645,869, NSF Biological Oceanography, sole PI.

7. FEASIBILITY STUDY FOR EARLY WARNING SYSTEMS FOR ALGAE-INDUCED TASTES AND ODORS; 7/1/09-12/31/09, \$22,906, American Water Works Association, sole PI.

6. REMOTE SENSING OF CENTRAL ARIZONA RESERVOIRS AND POTENTIAL FOR EARLY DETECTION OF ALGAL BLOOMS, 07/01/08-06/30/09, \$49,862, SALT RIVER PROJECT, sole PI.

## Funding

5. REMOTE SENSING OF SALT RIVER RESERVOIRS AND POTENTIAL FOR AN EARLY DETECTION SYSTEM OF ALGAL BLOOMS, 01/01/07-12/31/08, \$32,500, ASU WATER QUALITY CENTER, NSF, sole PI.
4. PRELIMINARY STUDY ON THE IMPACT OF DESCENT ENGINE EXHAUST ON BIOSIGNATURES AND PROPERTIES OF SURFACE ICE ON AN ICY BODY; Strategic University Research Partnership (SURP) Director's Research and Development Fund Proposal FY 2006, ASU-JPL, 09/6/06-09/30/08, \$68,958, LEAD-PI. Co-I Tibor Balint, JPL.
3. ANALYSIS OF NUTRIENT BUDGETS AND CARBON EXPORT IN THE EASTERN AND WESTERN SUBTROPICAL NORTH ATLANTIC OCEAN; 06/01/2004-5/31/2008, \$555,264, NASA, sole ASU PI and Lead-PI; Co-PI Drs Ray Najjar, Penn State, and Dennis McGillicuddy (unfunded), Woods Hole Oceanographic Institution.
2. MICROSCALE CARBON AND NITROGEN CYCLING IN BIOLOGICAL DESERT CRUSTS; 07/15/2003-07/14/2006, \$296,959, USDA (CO-PI WITH PI F. GARCIA-PICHEL).
1. PADT BIOSAMPLER TESTING; 11/01/05-6/1/2006, \$26,581, sole PI, collaboration with Phoenix Analysis and Design Technologies (PAD).

## Google Scholar Citation Indexes:

[http://scholar.google.com/citations?view\\_op=list\\_works&hl=en&user=qrbtbGcAAAAJ](http://scholar.google.com/citations?view_op=list_works&hl=en&user=qrbtbGcAAAAJ)

(Accessed July 2016)

## Publications

### A. Refereed

<sup>a</sup> indicates grad. student

<sup>b</sup> indicates Post-Doc

<sup>c</sup> indicates undergrad. student

letter underlined: not at ASU

\*corresponding author

(if not first author)

**All: Citations 1680 H-Index 25, i10-index 36**

**Note: It is customary in oceanography journals that the senior author is on second place behind the first author; in microbiology journals the senior author is last. If two students or Post-Docs contributed equally, then I always assume the senior role as last author.**

### Submitted, in review, or in press.

50. **S. Neuer**, J. A. Amacher<sup>a</sup>, The contribution of protists to particle flux in the oligotrophic Sargasso Sea. *Submitted*.
49. F. De Martini<sup>a</sup>, **S. Neuer\***, Demetra Hamill<sup>c</sup> and M.W. Lomas Taxon specific phytoplankton primary productivity and microzooplankton grazing loss in different seasons and mesoscale features in the Sargasso Sea. *Aquatic Microbial Ecology*.
48. W. Deng<sup>a</sup>, B. Cruz<sup>c</sup> and **S. Neuer\***. Effects of nutrient limitation on cell growth, TEP production and aggregate formation of marine *Synechococcus*. *Aquatic Microbial Ecology*. *In review*.
47. S. E. Wilson<sup>b</sup>, **S. Neuer**, F. DeMartini<sup>a</sup>, M.W. Lomas and R. H. Condon. Prey choice as an influencing factor in the nature of zooplankton-mediated particle export. *Submitted*.

### Published

46. W. Deng<sup>a</sup>, L. Monks<sup>c</sup>, **S. Neuer\***. 2015. Effects of clay minerals on the aggregation and

**Publications**

settling of marine *Synechococcus*, *Limnology and Oceanography*, 60, 805-816.

**Contd.**

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<sup>a</sup>indicates grad. student

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<sup>c</sup> indicates undergrad. student  
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45. **S. Neuer**, M. Iverson and G. Fischer. 2014. The Biological Carbon Pump as part of the global carbon cycle. *Limnol. Oceanogr. e-Lectures*, doi:10.4319/lol.2014.sneuer.miversen.gfischer.
44. A. Cianca, R. Santana, S. E. Hartman, J.M. Martin, M. González-Dávila, M. J. Rueda, O. Llinás and **S. Neuer**. 2013. Oxygen Dynamics in the North Atlantic subtropical gyre. *Deep-Sea Research II*, 93, 135-147.
43. J. Amacher<sup>a</sup>, **S. Neuer\*** and M. Lomas. 2013. DNA-based molecular fingerprinting of eukaryotic protists and cyanobacteria contributing to sinking particle flux at the Bermuda Atlantic Time-series Study. *Deep-Sea Research II*, 93, 71–83.
42. B. Salihoglu, **S. Neuer**, S. Painting, R. Murtugudde, E.E. Hofmann, J.H. Steele, R.R. Hood, L. Legendre, M.W. Lomas, J.D. Wiggert, S. Ito, Z. Lachkar, G. Hunt, K.F. Drinkwater, C.L. Sabine. 2013. Bridging marine ecosystem and biogeochemistry research: Lessons and recommendations from comparative studies. *Journal of Marine Systems*, 109-110, 161-175.
41. A. Cianca<sup>b</sup>, J. M. Godoy, J. P. Marrero, M. J. Rueda, O. Llinás and **S. Neuer**. 2012. Interannual variability of chlorophyll and the influence of low frequency climate modes in the North Atlantic subtropical gyre. *Global Biogeochemical Cycles*, Vol. 26, doi: GB2002/10.1029/2010GB004022.
40. B. Fernández-Castro, L. Anderson, E. Marañón, **S. Neuer**, B. Ausín, M. González-Dávila, J. M. Santana-Casiano, A. Cianca, R. Santana, O. Llinás, M. J. Rueda, and B. Mouriño-Carballido. 2012. Regional differences in modelled net production and shallow remineralization in the North Atlantic subtropical Gyre. *Biogeosciences*, 9, 1–16, www.biogeosciences.net/9/1/2012/doi:10.5194/bg-9-1-2012.
39. J. Amacher<sup>a</sup>, C. Baysinger<sup>c</sup> and **S. Neuer\***. 2011. Biases associated with DNA based molecular studies of marine protist diversity. *Journal of Plankton Research* 33, 1762-1766.
38. P. Tarrant, J. Amacher<sup>a</sup> and **S. Neuer\***. 2010. Assessing the potential of MERIS and MODIS data for monitoring total suspended matter in small and intermediate sized lakes and reservoirs. *Water Resources Research*. Vol. 46, W09532, doi:10.1029/2009WR008709.
37. B. Eddie<sup>a</sup>, A. Juhl, C. Krembs and **S. Neuer\***. 2010. Effect of Environmental Variables on Eukaryotic Microbial Community Structure of Land-fast Arctic Sea Ice. *Environmental Microbiology* 12, 797–809.
36. P. Helmke<sup>b</sup>, **S. Neuer\***, M. Conte, M.Lomas and T. Freudenthal. 2010. Cross-basin variability of organic carbon export and flux attenuation in the subtropical North Atlantic Gyre. *Deep-Sea Research I* 57, 213-227.
35. G. Fischer, **S. Neuer**, R. Davenport, P. Helmke, R. Schlitzer, O. Romero, V. Ratmeyer, B. Donner, T. Freudenthal, H. Meggers, and G. Wefer. 2010. The northwest African margin. Liu, K.-K., Atkinson, L., Quiñones, R., Talaue-McManus, L. (Editors), 2010. *Carbon and Nutrient Fluxes in Continental Margins: A Global Synthesis*. IGBP Book Series. Springer, Berlin, pp. 78-103.

**Publications**

**Contd.**

**A. Refereed**

<sup>a</sup>indicates grad. student

<sup>b</sup>indicates Post-Doc

<sup>c</sup> indicates

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\*corresponding author

(if not first author)

34. J. Amacher<sup>a</sup>, **S. Neuer\*** Anderson, I. <sup>c</sup> and R. Massana, R. 2009. Molecular approach to determine contributions of the protist community to particle flux. *Deep-Sea Research I*, 56, 2206-2215.
33. P. Tarrant and **S. Neuer\***. 2009. Monitoring algal blooms in a southwestern U.S. reservoir system. *EOS Transactions, American Geophysical Union*, 90, 5, 38-39.
32. B. Mouriño and **S. Neuer**. 2008. Regional differences in the role of eddy pumping in the North Atlantic subtropical gyre: Historical conundrums revisited. *Oceanography*, 21, 52-60.
31. B. Eddie<sup>c</sup>, Krembs, C. and **S. Neuer\***. 2008. Characterization and growth response to temperature and salinity of psychrophilic, halotolerant *Chalmydomonas sp* ARC isolated from Chukchi sea ice. *Marine Ecology Progress Series*, 354, 107-117.
30. A. Cianca<sup>b</sup>, P. Helmke<sup>b</sup>, B. Mouriño, M-J Rueda, O. Llinás and **S. Neuer\***. 2007. Decadal analysis of hydrography and in situ nutrient budgets in the western and eastern North Atlantic subtropical gyre. *Journal of Geophysical Research – Oceans* 112. C07025, doi:10.1029/2006JC003788.
29. **S. Neuer**, A. Cianca<sup>b</sup>, P. Helmke<sup>b</sup>, T. Freudenthal<sup>a</sup>, R. Davenport<sup>a</sup>, M. Knoll, M. Santana-Casiano, M. González-Davila, M. Rueda and O. Llinás. 2007. Biogeochemistry and hydrography in the Eastern Subtropical North Atlantic gyre. Results from European Time-Series Station ESTOC. *Progress in Oceanography* 72, 1-29.
28. G. Fischer, G. Karakas, M. Blaas, V. Ratmeyer, N. Nowald, R. Schlitzer, P. Helmke, R. Davenport, B. Donner, **S. Neuer** and G. Wefer. 2007. Mineral ballast and particle settling rates in the coastal upwelling system off NW Africa and the South Atlantic. *International Journal for Earth Sciences*. DOI 10.1007/s00531-007-0234-7.
27. S. L. Johnson, **S. Neuer** and F. Garcia-Pichel. 2006. Export of nitrogenous compounds due to incomplete cycling within biological soil crusts of arid lands. *Environmental Microbiology*. Vol. 9: 680-689. doi: 10.1111/j.1462-2920.2006.01187
26. **S. Neuer**, M.E. Torres-Padrón, M.D. Gelado-Caballero, J. Hernandez-Brito, M.J. Rueda and Gerold Wefer. 2004. Dust deposition pulses to the eastern subtropical North Atlantic gyre: Does ocean's biogeochemistry respond? *Global Biogeochemical Cycles*, 18, GB4020, doi: 10.1029/2004GB002228.
25. P. H. Figureido, R. Greeley, **S. Neuer**, L. Irwin, D. Schulze-Makuch. 2003. Locating potential biosignatures on Europa from surface geology observations *Astrobiology*, 3, 851-861.
24. D.M. Karl, N. Bates, P.J. Harrison, C. Jeandel, O. Llinas, K.K. Liu, J.-C. Marty, A.F. Michaels, J. C. Miquel, **S. Neuer**, Y. Nojiri and C. S. Wong. 2003. Temporal studies of biogeochemical processes determined from ocean time-series observations during the JGOFs era. pp. 239-267. *In: Ocean Biogeochemistry: the role of the ocean carbon cycle in global change*. M. J. R. Fasham (Ed.). International Geosphere-Biosphere Programme Book Series Nr. Springer-Verlag, Berlin, Heidelberg.
23. F. Garcia-Pichel, J. Belnap, **S. Neuer** and F. Schanz. 2003. Estimates of global cyanobacterial biomass and its distribution. *Algological Studies* 109: 213-228.

**Publications**

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<sup>a</sup>indicates grad. student

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<sup>c</sup> indicates undergrad. student  
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22. **S. Neuer**, R. Davenport<sup>a</sup>, T. Freudenthal<sup>a</sup>, G. Wefer, O. Llinás, M-J. Rueda, D. Rueda, Steinberg, D. Karl. 2002. Differences in the biological carbon pump at three subtropical ocean sites. *Geophysical Research Letters*, 29, 1885, doi:10.1029/2002GL015393.
21. **S. Neuer**, T. Freudenthal<sup>a</sup>, R. Davenport<sup>a</sup>, O. Llinás, M-J. Rueda. 2002. Seasonality of surface water properties and particle flux along a productivity gradient off NW Africa. *Deep-Sea Research II*, 49, 3561-3576.
20. J. Pätsch, W. Kühn, G. Radach, J.M. Santana Casiano, M. Gonzalez Davila, **S. Neuer**, T. Freudenthal, and O. Llinás. 2002. Interannual variability of carbon fluxes at the North Atlantic station ESTOC. *Deep-Sea Research I*. 49, 253-288.
19. G. Parilla, **S. Neuer**, P.-Y. LeTraon, E. Fernandez. 2002. Topical studies in oceanography: Canary Islands Azores Gibraltar Observations (CANIGO); Volume 1: Studies in the northern Canary Islands basin. *Deep-Sea Research II*, 49, 3409-3413.
18. G. Parilla, **S. Neuer**, P.-Y. LeTraon, E. Fernandez. 2002. Topical Studies in Oceanography: Canary Islands Azores Gibraltar Observations (CANIGO). Vol. 2: Studies of the Azores and Gibraltar regions, *Deep-Sea Research II*, 49, 3951-3955.
17. R. Davenport<sup>a</sup>, **S. Neuer**, P. Helmke, J. Perez-Marrero, O. Llinás, and G. Wefer. 2002. Primary production in the northern Canary Islands region as inferred from SeaWiFS imagery. *Deep-Sea Research II*, 49, 3481-3496.
16. F. Abrantes, H. Meggers, S. Nave, J. Bollman, S. Palma, C. Sprengel, J. Henderiks, A. Spies, E. Salgueiro, T. Moita, and **S. Neuer**. 2002. Fluxes of microorganisms along a productivity gradient in the Canary Islands region (29°N): Implications for paleoreconstructions. *Deep-Sea Research II*, 49, 3599-3629.
15. C. Sprengel, K.-H. Baumann, J. Henderiks, R. Henrichs and **S. Neuer**. 2002. Modern coccolithophore and carbonate sedimentation along a productivity gradient in the Canary Islands region: Seasonal export production and surface accumulation rates. *Deep-Sea Research II*, 49, 3577-3598.
14. T. Freudenthal<sup>a</sup>, **S. Neuer**, H. Meggers<sup>b</sup>, R. Davenport<sup>a</sup>, G. Wefer. 2001. Influence of lateral particle advection and organic matter degradation on sediment accumulation and stable nitrogen isotope ratios along a productivity gradient in the Canary Islands region. *Marine Geology*, 177, 93-109.
13. A.N. Antia, W. Koeve, G. Fischer, T. Blanz, D. Schulz-Bull, J. Scholten, **S. Neuer**, K. Kremling, J. Kuss, R. Peinert, D. Hebbeln, U. Bathmann, U. Fehner, and B. Zeitzschel. 2001. Basin-wide particulate carbon flux in the Atlantic Ocean: Regional export patterns and potential for atmospheric CO<sub>2</sub> sequestration, *Global Biogeochemical Cycles*, 15, 845-862.
12. C. Sprengel, K.-H. Baumann and **S. Neuer**. 2000. Seasonal and interannual variation of coccolithophore fluxes and species composition in sediment traps north of Gran Canaria (29°N, 15.5°W). *Marine Micropaleontology*. 39, 157-178.
11. R. Davenport<sup>a</sup> and **S. Neuer**. 1999. Satellite remote sensing of phytoplankton biomass and primary production in the world's ocean. (in German). *In: Rundgespräche der Kommission für Ökologie*, Bd. 17: Fernerkundung und Ökosystem-Analyse. S. 129-142.

**Publications**

**Contd.**

**A. Refereed**

<sup>a</sup> indicates grad. student

<sup>b</sup> indicates Post-Doc

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10. R. Davenport<sup>a</sup>, **S. Neuer**, A. Hernández-Guerra, M.-J. Rueda, O. Llinás, G. Fischer and G. Wefer. 1999. Seasonal and interannual pigment concentration in the Canary Islands region from CZCS data and comparison with observations from the ESTOC time-series station. *Journal of Remote Sensing*. 20, 1419-1433.
9. **S. Neuer**, G. Fischer, V. Ratmeyer and G. Wefer. 1997. Deep-water particle flux in the Canary Island region: seasonal variation in relation to long-term satellite derived pigment data and lateral sources. *Deep-Sea Research I*. 44, 1451-1466.
8. G. Fischer, **S. Neuer**, G. Wefer and G. Krause. 1996. Short-term sedimentation pulses recorded with a chlorophyll sensor and sediment traps in 900 m water depth in the Canary Basin. *Limnology and Oceanography*, 41, 1354 - 1359.
7. **S. Neuer** and T.J. Cowles. 1995. Comparative size-specific grazing rates in field populations of ciliates and dinoflagellates. *Marine Ecology Progress Series* 125: 259-267.
6. **S. Neuer** and T.J. Cowles. 1994. Protist herbivory in the Oregon upwelling system. *Marine Ecology Progress Series* 113: 147-162.
5. **S. Neuer** and P.J.F.S. Franks. 1993. Determination of ammonium uptake and regeneration rates using the seawater dilution method. *Marine Biology* 116: 497-505.
4. T. J. Cowles, R. A. Desiderio and **S. Neuer**. 1993. *In situ* characterization of phytoplankton from vertical profiles of fluorescence emission spectra. *Marine Biology* 115, 217-222.
3. R. R. Hood, **S. Neuer** and T. J. Cowles. 1992. Autotrophic production, biomass and species composition at two stations across an upwelling front. *Marine Ecology Progress Series* 83: 221-232.
2. **S. Neuer**. 1992. Growth dynamics of marine *Synechococcus* spp. in the Gulf of Alaska. *Marine Ecology Progress Series* 83: 251-262.
1. **S. Neuer**. 1980. MSS-Betäubungsmittel für wasserlebende Tiere. (MSS-Sedative for aquatic animals.) *Mikrokosmos* 69 (8): 270. German applied microscopy journal (Elsevier).

**B. Non-peer reviewed; (newsletter articles, reports)**

**S. Neuer, M. H. Iversen and G. Fischer** FEATURED *L&O* E-LECTURE. The Ocean's Biological Carbon Pump as Part of the Global Carbon Cycle. Invited contribution. *Limnology and Oceanography Bulletin*. Vol: 25, 22–23, DOI: 10.1002/lob.10083

**S. Neuer. 2014.** "Questions for Susanne Neuer". An invited contribution to the FixO3 Project Newsletter. Volume 1, Issue 1. p. 10.

**S. Neuer** and B. Salihoglu. 2014. Integrating marine biogeochemistry and ecosystem research: From nutrients to fish. *OCB (Ocean Carbon Biogeochemistry) News*, 7, 7-10, Summer 2014. [http://www.usocb.org/publications/OCB\\_NEWS\\_SUMMER14.pdf](http://www.usocb.org/publications/OCB_NEWS_SUMMER14.pdf).

**S. Neuer.** 2014. An Ocean In Space. Invited feature story. AWIS (Association for Women in Science) magazine, Spring 2014, p. 29-32 (Issue dedicated to "Career transitions").  
[https://c.ymcdn.com/sites/awis.site-ym.com/resource/resmgr/Magazine\\_Article/An\\_Ocean\\_in\\_Space.pdf](https://c.ymcdn.com/sites/awis.site-ym.com/resource/resmgr/Magazine_Article/An_Ocean_in_Space.pdf).

P. Tarrant, T. Sawyer, R. Mestek and **S. Neuer\***. 2009. Feasibility Study for Early Warning Systems for Algae-induced Tastes and Odors. Final Report. AWWA (American Water Works Association) Technical and Education Council. 24 pp.

**S. Neuer,** and cruise participants: Report and preliminary results of FS "Meteor" Cruise M45/5, Bremen - Las Palmas, 1.10.- 3.11.1999. Berichte, Fachbereich Geowissenschaften, Universität Bremen, No. 160, Bremen, 2000.

**S. Neuer,** and cruise participants: Report and preliminary results of FS "Poseidon" Cruise 248, Las Palmas - Las Palmas, 15.2.- 26.2.1999. Berichte, Fachbereich Geowissenschaften, Universität Bremen, No. 143, Bremen, 1999.

**S. Neuer,** and cruise participants: Report and preliminary results of FS "Poseidon" Cruise 237/2, Vigo - Las Palmas, 18.3.- 31.3.1998. Berichte, Fachbereich Geowissenschaften, Universität Bremen, No. 121, Bremen, 1998.

**S. Neuer,** and cruise participants: Report and preliminary results of FS "Victor Hensen" Cruise 96/1, Bremerhaven - Bremerhaven, 10.1.- 4.3.1996. Berichte, Fachbereich Geowissenschaften, Universität Bremen, No. 96, Bremen, 1997.

**S. Neuer** and M. Rueda (1997): European Time-Series Station In Operation North of Canary Islands. *U.S. JGOFS Newsletter*, March 1997.

**Conference Presentations (Invited)**

**Invited talks**

**Invited Speaker,** Gordon Research Conference on Ocean Biogeochemistry, The Chinese University of Hong Kong, Hong Kong, China, June 12-17, 2016. "A Hitchhiker's Guide to the Abyss: Organism's Role in the Biological Carbon Pump"

**Invited Lecturer,** Mary Tharp Lecture Series for Ocean Research, Geomar, Kiel, Germany Oct. 28, 2016. "Biology in the Biological Carbon Pump"

**Invited Lecturer,** Ramon Margalef Summer Colloquium, Barcelona, Spain, July 6-10, 2015. "Ecological boundaries generated by coastal upwelling processes"

**Invited speaker,** Ecology Seminar, Scripps Institution of Oceanography, UC San Diego, Jan. 14, 2015. "The role of the Plankton Community in the Biological Carbon Pump"

**Invited Lecturer,** Ramon Margalef Summer Colloquium, Barcelona, Spain, July 1-13, 2013

**PLOCAN Institute, Telde, Gran Canaria, June 28, 2013**

"The North Atlantic Subtropical Gyre: Differences in Nutrient Supply and the Biological Carbon Pump". **Invited presentation.**

**Hanse Institute for Advanced Studies, Delmenhorst, Germany, May 29, 2013**

"How the Ocean's Biological Carbon Pump Helps to Keep the Planet Cool", **Invited presentation** for the Foundation and Fellows of the Hanse Institute, Delmenhorst,



Germany.

**Seminar speaker.** Polytechnic Campus, ASU, Sept. 24, 2013  
“How the Ocean’s Biological Carbon Pump Helps to Keep the Planet Cool”

**Seminar speaker. Alfred Wegener Institute, Bremenhaven, Germany, Oct. 29. 2012,** The Role of Ocean Biota in Carbon Flux.

**Invited speaker,** Advisory panel for the reconstitution of a Graduate Program in Environmental Sciences and Engineering, University of Texas at Arlington, November 9, 2012

**Invited Lecturer,** MEECE (Marine Ecosystem Evolution in a Changing Environment) Summer School, September 2011

**ASLO Aquatic Sciences Meeting 2009, Nice, France, Jan. 25-30, 2009** (invited)  
Neuer, S., Mohler, J., R. Massana. The oceanic protist community and its contribution to particle flux.

**Centre Mediterrani d’Investigacions Marines i Ambientals (CMIMA), Barcelona, Spain, Oct. 4, 2005.** Biogeochemistry of the Eastern Subtropical North Atlantic Gyre: Results of European Time-series Station ESTOC.

**Ocean Carbon and Climate Change (OCCC), Woods Hole Oceanographic Institution (Woods Hole, MA), August 1-4, 2005. S. Neuer.** European Time-series Station ESTOC in the Eastern Subtropical North Atlantic Gyre (**invited talk**)

**UC Merced, Jan. 10, 2005:** Deserts of the Oceans: The biogeochemistry of Subtropical Gyres (**invited**)

**Seminar at College of Oceanic and Atmospheric Sciences, Corvallis, OR, Oct. 14, 2003.**  
Neuer, S. The biogeochemistry of the eastern subtropical Atlantic: Results from time-series station ESTOC (**Invited**)

**ISME International Society for Microbial Ecology, Cancun, Mexico, Aug. 22-27, 2004. S. Neuer.** Microzooplankton grazing and the carbon cycle in the eastern subtropical Atlantic gyre (**invited**)

**JGOFS Open Science Conference, Washington, DC, May 5-8, 2003, Neuer, S.** Differences in the biological carbon pump within the same biogeographical province: A case study from the subtropical North Atlantic Gyre (**Invited**)

**Conference Presentations (Contributed) (2010-present)**

**Ocean Sciences Meeting 2016, New Orleans, 21-26 February 2016.**

F. De Martini and **S. Neuer.** From Grazer Control to Carbon Export: Contrasting the Role of *Syne* and *Prochlorococcus* in the Sargasso Sea. Talk.

W.Deng, **S. Neuer**, L. Monks and B. Cruz. Marine *Synechococcus* Aggregation. Poster  
**S. Neuer**, K. Kinzler, C. Aumack and A.R. Juhl, Export of Algal Communities from Land Fast Arctic Sea Ice Influenced by Overlying Snow Depth and Episodic Rain Events. Poster.

**EMBO | EMBL Symposium: A New Age of Discovery for Aquatic Microeukaryotes. Jan. 26-29, 2016. S. Neuer**, J. Amacher, F. DeMartini, and S. Wilson. The role of marine protists in export of organic matter in the oligotrophic Sargasso Sea. Selected

talk.

**Ocean Carbon Biogeochemistry (OCB) summer meeting, Woods Hole, MA, July 20-23, 2015.** F. De Martini, **S. Neuer** and D. Hamill, J. Robidart. CYANOBACTERIA, TOO SMALL TO SINK? STRAIN SPECIFIC CONTRIBUTION OF CYANOBACTERIA TO THE CARBON EXPORT IN THE SARGASSO SEA. Poster.

**European Geosciences Union General Assembly, April. 12-17, 2015, Vienna, Austria.** **S. Neuer and H. Benway.** Introducing the US Ocean Carbon Biogeochemistry Subcommittee on Ocean Time-Series. Geophysical Research Abstracts, Vol. 17, EGU2015-8098, 2015

**S. Neuer, J. Amacher, F. DeMartini, and S. Wilson.** Deciphering The Role of Plankton Taxa in Particle Flux. Geophysical Research Abstracts. Vol. 17, EGU2015-8228, 2015

**Ocean Carbon Biogeochemistry (OCB) summer meeting, Woods Hole, MA, July 21-24, 2014.** COUPLED AND UNCOUPLED PREY/PREDATOR RELATIONSHIP LINKED TO THE CARBON EXPORT AT THE BERMUDA ATLANTIC TIME SERIES STATION. F. De Martini, **S. Neuer** and D. Hamill.

**IMBER (Integrated Marine Biogeochemistry and Ecosystem Research) Open Science Conference, 23-27 June 2014, Bergen, Norway.** Neuer, S., K. Kinzler, C. Aumack and A. Juhl. EXPORT VARIABILITY OF ALGAL COMMUNITIES FROM LAND FAST ARCTIC SEA ICE

**Ocean Sciences Meeting 2014, Hawaii, HI, 23-24 February 2014.**

**De Martini, F.; Neuer, S.; Lomas, M. W.:** GROWTH AND GRAZING RATES OF THE PICO AND NANO-PHYTOPLANKTON COMMUNITY AND ITS LINK TO THE CARBON EXPORT AT THE BERMUDA ATLANTIC TIME-SERIES STUDY STATION, Poster.

**Kinzler, K. P.; McHugh, C.; Aumack, C.; Juhl, A.; Neuer, S.:** TEMPORAL AND SPATIAL EXPORT VARIABILITY OF ALGAL COMMUNITIES FROM LAND FAST ARCTIC SEA ICE, Talk.

**Deng, W.; Monks, L.; Neuer, S.:** EFFECTS OF CLAY MINERALS ON THE AGGREGATION AND SETTLING OF MARINE *SYNECHOCOCCUS*, Poster.

Aumack, C. F.; Juhl, A. R.; Neuer, S.: INFLUENCES OF OVERLYING SNOW ON PARTICLE SINKING VELOCITY FOLLOWING EXPORT FROM LAND FAST ARCTIC SEA-ICE, Poster.

**Monks, L.; Deng, W.; Neuer, S.:** TIME COURSE EXPERIMENTS OF MARINE *SYNECHOCOCCUS* AGGREGATION

**ASLO Aquatic Sciences Meeting 2013, New Orleans, Feb.17-22, 2013**

**Neuer, S.; DeMartini, F.; Wilson, S. E.; Shelton, N.; Bachman, B.; Condon, R. H.; Richardson, T. L.; Lomas, M. W.:** OASIS IN THE DESERT? ENHANCED PRODUCTION, GRAZING AND CARBON EXPORT ASSOCIATED WITH CORE AND EDGE OF AN ANTICYCLONIC EDDY IN THE SARGASSO SEA (Abstract ID:11035)-Talk

**Juhl, A. R.; Aumack, C.; Neuer, S.; Krembs, C.:** EXPORT OF SEA ICE ALGAE AND RETENTION OF ORGANIC MATTER BY FIRST YEAR ARCTIC SEA ICE (Abstract ID:10675)-Talk

**Aumack, C. F.; Juhl, A. R.; Neuer, S.:** LINKING SEA ICE ORGANIC MATTER TO THE UNDERLYING MARINE ENVIRONMENT: PARTICLE SINKING VELOCITY UPON EXPORT.-Talk

**Kinzler, K. P.; Held, B.; McHugh, C.; Aumack, C.; Juhl, A.; Neuer, S.;** SIMULATED ALGAL BLOOMS IN MELT WATER OF LAND FAST ARCTIC SEA ICE (Abstract ID:11133)-Poster. **Wilson, S. E.; Neuer, S.; Condon, R. H.; Shelton, N. L.;** EFFECT OF SEASONAL AND SPATIAL VARIABILITY IN THE DIETS AND FECAL PELLET PRODUCTION OF MESOZOOPANKTON ON PARTICLE FLUX (Abstract ID:11451)-Talk

**Deng, W.; Monks, L.; Neuer, S.;** MARINE [SYNECHOCOCCUS](#) AGGREGATION (Abstract ID:11084)-Poster

Conference Presentations (2010-present)

**De Martini, F.; Neuer, S.; Hamill, D.; Lomas, M. W.;** GROWTH AND GRAZING RATES OF NANO AND PICO-PHYTOPLANKTON IN THE SARGASSO SEA USING QPCR IN COMBINATION WITH DILUTION EXPERIMENTS (Abstract ID:10810)-Poster

**IMBER-IMBIZO III The Future of Marine Ecosystems, Goa, India, 28-31 Jan., 2013**  
**Neuer, S.** Microbial Loop and Carbon Export in the Subtropical Ocean (Talk)

**Astrobiology Science Conference 2012 (Exploring Life: Past and Present, Near and Far), Atlanta, Georgia, April 16-20, 2012**

**Deng, W., Mohabir, K. and Neuer, S.** Effects of Nutrient Limitation on Marine Synechococcus Aggregation (Poster).

**Ocean Sciences Meeting 2012, Salt Lake City, UT, 20-24 February 2012**

**Wilson, S. E.; Neuer, S.;** WINTER AND SPRING DIETS OF SARGASSO SEA MESOZOOPLANKTON ANALYZED USING DNA-BASED MOLECULAR TECHNIQUES (Abstract ID: 10376)

**Shelton, N. L.; Condon, R. H.; Wilson, S. E.; Neuer, S.; Lomas, M. W.; Smith, S. R.; Kram Carassou, L.; Richardson, T. L.;** CONTRASTING ROLES OF GELATINOUS AND CRUST ZOOPLANKTON AS MEDIATORS OF CARBON PATHWAYS IN OLIGOTROPHIC FOOD (Abstract ID: 11480)

**De Martini, F.; Michael W.Lomas, M. W.; Neuer, S.;** GROWTH AND GRAZING MORTALITY OF NANO- AND PICOPLANKTON IN THE SARGASSO SEA (Abstract ID: 12227)

**Neuer, S.; Amacher, J. A.; Hansen, A. M.; Lomas, M. W.;** THE SMOKING GUN: LINKING PLANKTON COMMUNITY COMPOSITION WITH PARTICLE EXPORT (Abstract ID: 1256)

**ASLO Aquatic Sciences Meeting 2011, San Juan, Puerto Rico, Feb.13-18, 2011**

**Neuer, S.; Hansen, A. M.; Freibott, A.; Lomas, M. W.;** PROTIST AND CYANOBACTERIAL COMMUNITY RESPONSE TO THE INTENSE WINTER STORMS IN THE SARGASSO SEA IN 2010 (Abstract ID: 8042) -Talk

**Amacher, J. A.; Neuer, S.; Baysinger, C. W.; Lomas, M. W.;** MOLECULAR TIME-SERIES OF PHYTOPLANKTON EXPORT FROM THE UPPER WATER COLUMN AT THE BERMUDA ATLANTIC TIME-SERIES STUDY (BATS) (Abstract ID:8053) – Talk

**Sawyer, T.; Rickborn, A.; Neuer, S.;** THE ROLE OF ZOOPLANKTON COMMUNITIES IN SHAPING THE COMMUNITY STRUCTURE OF PRIMARY PRODUCERS IN CENTRAL ARIZONA RESERVOIRS (Abstract ID:8261) – Poster

**IMBER IMBIZO II “Integrating biogeochemistry and ecosystems in a changing ocean”, Crete, Greece, October 10-14, 2010. S. Neuer, A. Cianca, M. Lomas, M. Conte and B. Mouriño.** Regional comparisons across the North Atlantic subtropical gyre: Differences in nutrient supply and the biological carbon pump (Oral)

**Ocean Carbon and Biogeochemistry (OCB) Summer Workshop, San Diego, July 19-22, 2010. B Eddie, A Juhl, C Krembs and S Neuer.** Effect of Environmental Variables on Eukaryotic Microbial Community Structure of Land-fast Arctic Sea Ice (Poster)

**AGU Ocean Sciences Meeting, Portland, OR, 19-25 February 2010.**

*TALK* Molecular Time-series of Phytoplankton Contribution to Particle Flux in the Sargasso Sea: **S Neuer, J Amacher, C Baysinger, M W Lomas**

*POSTER* The influence of low frequency climate modes on chlorophyll dynamics at two North Atlantic subtropical ocean sites: **A Cianca-Aguilar, S Neuer, J Godoy, J Perez-Marrero, M Rueda, O Llinas**

*POSTER* Diagnostic Modeling of Carbon, Nutrients, and Oxygen Budgets in the Eastern Subtropical North Atlantic Gyre at the European Station for Time-Series in the Ocean, Canary Islands (ESTOC): **M Herrmann, R Najjar, S Neuer, A Cianca-Aguilar, M Gonzalez-Davila, O Llinas, M Santana-Casiano**

**Teaching**

*POSTER* Seasonal Variability of the Protist and Cyanobacterial Communities in the Sargasso Sea: **A M Hansen, S Neuer, A Freibott, J Amacher, M W Lomas**

**At ASU:**

**BIO 598**, Special Topics : Writing A NSF-GRFP, 1cr. Fall 2015  
**ELS 502**, Environmental Life Sciences, Field Camp, 4 cr, Spring 2009, 2012, 2014  
**ELS 501**, Environmental Life Sciences, Grand Challenge: Climate Change, 3 cr, Fall 2009, Fall 2011, Fall 2012, Fall 2013  
**BIO 189**, Recitation in Global Climate Change, 1 cr., Fall 2011, Fall 2012  
**BIO/GPH 598** IPCC and Climate Change, 1 cr. (co-taught with Anthony Brazel, School of Geography), Spring 2008  
**BIO 494** Marine Biology, 3 cr., Spring 2008, 2014, 2015, Fall 2016  
**BIO/CHM/GLG 494/598** Ocean Biogeochemistry, 3 cr., Spring 2007, Spring 2009  
**BIO 320** Fundamentals of Ecology, 3 cr., Spring 2006  
**BIO 591** Readings in Ocean Biogeochemistry, 1 cr., Spring 2006  
**BIO325/GLG325 (formerly GLG 394/BIO394)** Oceanography, 3 cr., Spring 2001, Spring 2002, Spring 2003, Fall semesters 2003, 2004, 2005, 2006, 2007, 2008, 2011, 2014, 2015  
**GLG 101** Introduction to Physical Geology, 3 cr., Spring semesters 2003, 2004  
**GLG 194** Oceanography: An Introduction to Marine Science, 3 cr., Fall semesters 2001, 2002  
**BIO 494**, Marine Science, ITESM Campus, Guaymas, Mexico, Jan. 4-18, 2003 (team taught). Part of ASU's MARC (Minority Access to Research Careers) program, for Native American and Hispanic students

**At Bremen University:**

**Biological-Physical Interactions in Oceanography**, 3 credit course, graduate level, Univ. Bremen, spring semesters 1997, 1998  
**Plankton Ecology**, 3 credit lab course, graduate level, Univ. Bremen, winter semesters 1996, 1997, 1998

**At Oregon State University and University of Washington:**

**Biological Oceanography**, 1-week course for high-school teachers, Hatfield Marine Science Center, Newport, Oregon, summer 1990  
**Ocean 101**, TA, Univ. of Washington, 1988

**Mentoring**

**General**

**Mentor**, Ocean Sciences Meeting, New Orleans Feb. 21-26, 2016  
**Mentor**, IMBER (Integrated Marine Biogeochemistry and Ecosystem Research) Open Science Conference, 23-27 June 2014, Bergen, Norway  
**Mentor**, ASLO Aquatic Sciences meeting, Feb. 17-22, 2013  
**Mentor**, IMBER-IMBIZOIII, Goa, India, Jan. 28-31, 2013  
**Mentor**, Obama fellowship program, FY 2009/10  
**Faculty Honors Advisor**, Barret, The Honor's College, ASU, FY 2009/10  
**President**, Central Arizona Chapter, Association for Women in Science (AWIS), 5/2008-06/2010

**Mentoring**

**Vice President**, Central Arizona Chapter, Association for Women in Science (AWIS), 5/2007-5/2008

**Member**, Minority Graduate Education at Mountain States Alliances (MGE at MSA), 2001-2009

**Member**, UMEB (Undergraduate Mentoring in Environmental Biology); SOLUR (School of Life Sciences Undergraduate Research), 2005-present

**Mentor**, Minorities Striving and Pursuing Higher Degrees of Success Program (MS and PhD Program), JGOFS Final Science Conference, May 5-8, 2003

**Graduate student mentoring**

***Chair of PhD and MS committees***

Current:

Bianca Cruz, MS Biology (Aug. 2016-)

Kassandra Dudek, PhD, Environmental Life Sciences (Aug. 2016-)

Completed:

Megan Wolverton, MS, Biology (07/2016): "Bottom-up and Top-down Controls on the Microzooplankton". Currently: Adjunct Faculty, Mesa Community College

Francesca de Martini, PhD, Environmental Life Sciences (05/2016): "Growth and Grazing Mortality of Pico-and Nano-Phytoplankton and Their Role in the Carbon Export in the Sargasso Sea". Currently: Research Specialist Senior at Arizona State University

Wei Deng, PhD, Environmental Life Sciences (05/2016): "Aggregation of Marine Pico-Cyanobacteria".

Kyle Kinzler, MS, Biology (12/2014): "Temporal and Light-Dependent Variability of Algal Communities In Land-Fast Arctic Sea Ice." Currently: Biology/AP Biology Teacher Westview High School, Beaverton, OR

Darren Sversvold, MS, Biology, July 2012: El Niño Southern Oscillation Influences on Precipitation, Discharge, and Nutrient Concentrations in the Upper Salt River Watershed in Arizona." Currently: Water Economic Analyst, Phoenix, Arizona Area Environmental Services

Tyler Sawyer, MS, Biology, July 2011: "The Ecology of the Plankton Communities of Two Desert Reservoirs". Currently: High School teacher, Phoenix.

Amy Hansen, MS, Microbiology, December 2010: "Seasonal and Interannual Variability of the Sargasso Sea Plankton Community". Currently: Production Editorial Associate, Annual Reviews, Palo Alto, CA

Jessica Amacher (néé Mohler), PhD, Biology, July 2011: "Protist and Cyanobacterial Contributions to Particle Flux in Oligotrophic Ocean Regions". Currently: Argonne National Laboratory, Lemont, IL.

Shikha Gupta, MS, Computational Biosciences, August 2010 : "The application of MERIS full resolution data to estimate algal blooms in central Arizona reservoirs". Currently: Business Analyst at Amazon

**Mentoring**

Brian Eddie, MS, Microbiology, May 2008: "Influence of Temperature and Salinity on Growth Rate and Morphology of an Arctic Chlorophyte". Currently: PhD graduate, University of Delaware (Jan. 2013), now Naval Post Doctoral Fellow at the Naval Research Laboratory, Washington, DC. Currently: Researcher, Naval Research Laboratory, Washington, DC.

Jessica Mohler, MS, Biology, December 2007: "Molecular Approach to Determine Contributions of Eukaryotic Protists to Downward Particle Flux in the Ocean". Currently: See Jessica Amacher (née Mohler) above.

***Graduate Student Mentoring; Member of PhD and MS committees***

Çağlar Yumruktepe, PhD, Oceanography, Institute of Marine Sciences, Middle East Technical University, Erdemli-Mersin, Turkey (08/2016-)

Shufang Ci, PhD, Biological Design (08/2016-)

Courtney Courier (07/2015), MS Biology

Hilairy Emick (05/2015), PhD, Environmental Life Sciences (student left program)

Nikos Lessios (07/2016), PhD, Biology

Natalie Myers (5/2013), MS, Microbiology

Jieying Wu (09/2013), PhD, Microbiology

Edgardo Ramirez (12/2010), PhD, Microbiology

Jenifer Rupnow (12/2007), MS, Biology, ASU

Mike Rothrock (08/2005), PhD, Microbiology, ASU

**Postdoctoral Mentoring**

Dr. Jessica Amacher, ASU, 2011; currently: Argonne National Laboratory, Lemont, Illinois.

Dr. Stephanie Wilson, ASU, 2011; currently: Lecturer, University at Bangor, Wales, UK.

Dr. Peer Helmke, ASU, 2005-2006; currently: Researcher, Bundesanstalt fuer Gewaesserkunde (Federal Bureau of Water Research), Koblenz, Germany

Dr. Andres Cianca, ASU, 2005-2006, currently: Senior Researcher, Plataforma Oceanica de Canaria (PLOCAN), Telde, Gran Canaria, Spain.

**Undergraduate Mentoring (>35)**

**Select students and their current position:** \*Students in Barrett, The Honors College (with defense of a Honors thesis):

\*Brian Eddie, spring 2005, currently: Researcher, Naval Research Laboratory, Washington, DC.

**Mentoring**

Alexis Pasulka: Graduated in Spring 2005; PhD graduate of Oceanography, Scripps Institution of Oceanography, UC San Diego, Summer 2013, currently: Post-Doc, CalTech Pasadena, CA, Assistant Professor (start fall 2016) at the California Polytechnic State University, San Luis Obispo.

Charles Baysinger, Graduated in fall 2008, currently: MD Student, George Washington University

\*Alexandra Freibott, spring 2011, currently: PhD student in Oceanography, Scripps Institution of Oceanography, UC Sand Diego

\*Kelly Lintecum, spring 2012, currently: Researcher, Biodesign Institute, ASU

\*Demetra Hamill, spring 2013, currently: Research technician, SoLS, ASU

Alissa Rickborn, graduated in spring 2010, currently: PhD student in Biology at Boston University

Benjamin Brugman, fall 2009, PhD student, Michigan State University

Other undergraduate students who went on to medical school: Ian Anderson, Mark Wiener, Kimberly Mohabir, Aaron Robinson

#### **All Undergraduate (>35):**

**(SOLUR: School of Life Sciences Undergraduate Research)**

**Advisor**, Undergraduate research projects of Jennifer Laliberte (Spring, Fall 2001); Brian Eddie (Fall 2002; Spring, Fall 2004, Spring 2005; **Honor's Thesis**), Alison Goode (Fall 2002); Linda Roehrborn (Fall 2002, Spring 2003); Gwen Hoenecke (Fall 2003 - Spring 2005, **Senior Thesis**), Libby Hicks (Fall 2003), Alexis Pasulka (Fall 2004 - Fall 2005, **Senior Thesis, SOLUR**), Ian Anderson (Spring 2005), Jaime Vasche (Spring 2005), Steve Berman (Spring 2006), Patricia Hester (Fall 2006, **SOLUR**), My Truong (Fall 2006, Spring 2007, **SOLUR**), Kyle Hickman (Spring 2007), Ryan Maloney (Spring 2007), Carmen Berrios, Univ of Puerto Rico (Summer 2007), Rebecca Mestek (Fall 2007- Summer 09, **SOLUR**), Amelia Rana (Spring 2008), Charles Baysinger (Spring 2008-Fall 2008, **SOLUR**, Benjamin Brugman (Fall 2008- Spring 2009; Fall 2009 as **NASA Space Grant Student**), Alexandra Freibott (Spring 2009-Spring 2011, **SOLUR, Honor's Thesis**), Alissa Rickborn (Summer 2009-Spring 2010, **SOLUR**), Kimberly Mohabir (Spring 2010-Spring 2012, **NASA Space Grant**), Aaron Robinson (Fall 2010), Mark Wiener (Spring, Fall 2011), Megan Wolverton (Fall 2011 - Fall 2012), Marissa Ivie (Fall 2011, Spring 2012), Kelly Lintecum, **Honor's Thesis**, Spring 2012, Cora McHugh (Spring 2012-Fall 2013, **SOLUR**), Logan Monks (Fall 2012-, **SOLUR**), Demetra Hamill (Summer 2012-Spring 2013, **Honor's Thesis**), Janelle Matura (Fall 2013 – Spring 2014, **Barrett, The Honors College**), Holly Celaya (Spring 2014-Fall 2015, **Barrett, The Honors College**), Elena Sacco (Spring 2014, **Barrett, The Honors College**), Maira Nieto (Biochemistry, Spring 2014-Fall 2015), Ryan Gasbarro (Fall 2014-Spring 2015, **Barrett, The Honors College**), Bianca Cruz (Spring-Fall 2015, **Deans Medalist**), Franklin Keck (Spring 2015), Nate Munoz (Fall 2015), Daniel Jasso-Selles (Spring 2016-present), Kevin Roy **Barrett, The Honors College** (Fall 2016-present), Thomas Hulon (Fall 2016-present)

**High School Student**: Kaitlyn Boisvert (2012-2014), "Effects of climate change on marine phytoplankton". Won several science fair prizes with her project, among them: Semi-finalist for the Young Naturalist Awards 2015, 1st Place award for the poster division of the Jr. Science & Humanities Symposium held at ASU 2015, and SemiFinalist for the Intel Science Talent Search 2016.

Service

**National/International (some are also listed under 'Leadership positions' on p.1)**

**Vice-Chair** (2018) and **Chair** (2020) (elected), Gordon Research Conference on Ocean Biogeochemistry

**ASLO Vice-chair**, Organizing Committee, Ocean Sciences Meeting, New Orleans, Feb. 21-26, 2016

**Organizer**, Ocean Sciences 2016 Town Hall: The future of ocean biogeochemical time-series ASLO/AGU Ocean Sciences Meeting, New Orleans, 21-26 Feb. 2016

**Site Reviewer**, German Research Foundation (DFG), Kiel, Germany, October 2015

**Member**, Ocean Carbon and Biogeochemistry (OCB) Scientific Steering Committee, 2014-present and **Chair**, Ocean Time-series Committee, a subcommittee of the OCB, 2014-present

**Panelist**, National Science Foundation, Ocean Acidification, March 2013

**Member (elected)**, Ocean Carbon and Biogeochemistry (OCB) Ocean Time-Series Advisory Committee, July 2012- present.

**Organizer**, Town Hall on Career-Life Balances, ASLO/AGU Ocean Sciences Meeting, Salt Lake City, 19-25 Feb. 2012

**Site Reviewer**, German Research Foundation (DFG), Kiel, Germany, September 2011

**Member**, Scientific Steering Committee, Global Biogeochemical Flux Program, Ocean Observatories Initiative, 2010-2011

**Board of Directors (elected)**, Association for Women in Science, Washington, DC. Jan. 2009-Dec.2012

**Panelist**, National Science Foundation, Office of Polar Programs, September 2010

**ASU Representative**, Arctic Research Consortium of the US (ARCUS), 2006-2013.

**Panelist**, National Science Foundation, 'Carbon and Water', June 2006

**Member**, NASA Science Definition Team for Jupiter Icy Moon Orbiter (JIMO), 2003-2005

**Panelist**, EPA STAR fellowship, 2001, 2002

**Advisor**, ESTOC (European Station for Time-Series in the Ocean, Canary Islands) 1997-2005

**Steering member**, CANIGO (Canary Islands Azores Gibraltar Observations) (EU funded large-scale project involving 51 institutions), 1996-1999

**Chief Scientist on Research Expeditions**

R.V. "Meteor", M45/5, 1999

R. V. "Poseidon", POS 248, 1999

R. V. "Poseidon", POS 237, 1998

R.V. "Victor Hensen" VH97/3, 1997

R.V. "Victor Hensen", VH96/1, 1996

**Special session chair at international conferences**

**Ocean Carbon Biogeochemistry (OCB) summer meeting, Woods Hole, MA, July 20-23, 2015.**

Studying spatial and temporal variability in the ocean with shipboard and autonomous platforms. Chairs: Susanne Neuer, Michael Lomas, Angel White

**EGU General Assembly, Vienna, Austria, April 12-17, 2015.** OS4.6: Advances in open ocean

water column observations at fixed locations. Convener: Richard Lampitt, Co-Conveners: Luisa Cristini, Nicholas Bates, **Susanne Neuer**, Vanessa Cardin, Matthew Church, Eric Delory, Mary Jane Perry

**Ocean Carbon Biogeochemistry (OCB) summer meeting, Woods Hole, MA, July 21-24, 2014.**

New insights into the biology and biogeochemistry of the mesopelagic zone

Chairs: Susanne Neuer (ASU), Carol Arnosti (UNC), Bethany Jenkins (URI).

**Service**



**ASLO 2013 Aquatic Sciences meeting, New Orleans, 17-22, 2013.** “Biology and Biogeochemistry of Sea Ice Communities”, with Andrew Juhl, Columbia University.

**ASLO/AGU Ocean Sciences Meeting, Salt Lake City, 19-25 Feb. 2012,**

**SS 147:** ‘Infusing Biogeochemistry with Ecosystem Science’ (with Raleigh Hood, University of Maryland); **SS146:** ‘Zooplankton Feeding Ecology and the Biological Carbon Pump in the Ocean’, co-convenor with Dr. Stephanie Wilson, Arizona State University/ Bangor University).

**ASLO/AGU Ocean Sciences Meeting, Portland, 22-26 Feb. 2010, IT30:** ‘The Biogeochemistry of the North Atlantic in a Global Context: Bringing Together Recent Advances in Modeling and Observations’ (with Dr. Ray Najjar, Penn State).

**ASLO/AGU Ocean Sciences Meeting, Orlando, March 2-7, 2008:** ‘Time-series observations of biogeochemical processes and their long term trends’ (with Drs M. Lomas, F. Mueller-Karger, L. Lorenzoni).

**ASLO/AGU Ocean Sciences Meeting, Hawaii, Feb. 2006, OS106:** ‘Role of Ocean Biota in Carbon Flux’ (with Dr. Ricardo Letelier, Oregon State University)

**American Geophysical Union, Fall meeting, San Francisco, CA, Dec. 10-14, 2001:** ‘Oceanography of the Eastern Boundary Region of the Subtropical North Atlantic Gyre’ (with Dr. Gregorio Parrilla)

**ASLO Aquatic Sciences meeting, Albuquerque, NM, Feb. 12-16, 2001:** ‘Revisiting Redfield: C:N:P stoichiometry in aquatic ecosystems’ (with Dr. James Elser)

#### **Editorial activities**

**Associate Editor**, Deep-Sea Res. I, 08/2015-present

**Guest Editor**, Deep-Sea Research Part II, Vol 49, 17 and 19 (2002), Special Volumes on CANIGO (Canary Islands Azores Gibraltar Observations)

**Review Editor**, Aquatic Microbial Ecology (1997-2007)

**Ad hoc reviewer** (NASA, NSF, ONR, EPA, SeaGrant, NERC, Nature Geosciences, PNAS, Deep-Sea Research, Geophysical Research Letters, Global Biogeochemical Cycles, Aquatic Marine Ecology, Marine Systems, Limnology and Oceanography, Marine Ecology Progress Series, Biogeosciences)

#### **At ASU (some of these are stated under ‘Leadership Positions’) on p. 1**

**Associate Director** for Graduate Studies, SoLS, July 1, 2015-present

**Invited Panelist**, “JumpStarting STEM Careers”, January 8, 2016

**Invited Panelist**, “New Asst. Prof. Workshop Series”, Aug. 2014

**Invited panelist**, “Up, up and away: Understanding inter-, multi-, and trans-disciplinary proposals”, Office of Knowledge Enterprise Development (OKED), Nov. 18, 2014

**Assistant Director** for Graduate Studies, SoLS, fall 2013-present

**President**, Faculty Women Association, AY 2014/2015

**President-elect**, AY 2013/2014, Faculty Women Association, ASU

**Board member**, Faculty Women Association, fall 2012-present

**Member**, search committee for a faculty hire in “Bacterial Genomics”, fall 2013/spring

**Service**

2014, fall 2014-spring 2015

**Member**, search committee for a faculty hire in “Photosynthesis”, fall 2014-spring 2015

**Member**, search committee for a targeted faculty hire in “Borderlands Initiatives”, fall 2014-spring 2015

**Director**, Graduate Program “Environmental Life Sciences”, Dec. 2008-August 2013

**Acting director**, working group responsible for the formation of the interdisciplinary graduate program “Environmental Life Sciences”, May-Dec. 2008

**Member**, Undergraduate Committee, SoLS, 2011-2012.

**Member**, Committee, formation of a minor in Sustainability, fall 2009

**Member**, EEES personnel committee, AY 2009/10.

**Member**, search committee for a faculty hire in “Global Ecology”, spring 2010

**Chair**, Selection committee for the Lisa Dent Memorial Fellowship in Ecology, April, 2008

**Member**, SOLUR Researcher selection committee, Spring 2007, 2008, 2010

**Member**, Library Committee (SoLS), 2006-2011

**Member**, Awards Committee (SoLS), 2005-2006

**Member**, (SoLS), Research and Training Initiatives committee, 2005

**Member**, planning committee for future School of Earth and Space Exploration (SESE), ASU, 2004-2005

**Community Service/Outreach**

**ASU Ask-A-Biologist: “Frozen Life”** <http://askbiologist.asu.edu/frozen-life>, website featuring content, video, and work materials and teachers for the public and K-12 students on life in the Arctic sea ice, completed summer 2015

**Featured on “STEM Journals”**, a COX Channel 7 series on STEM education, first broadcast November 17, 2013.

**ASU Ask-A-Biologist: “Invisible watery world”**

<https://askbiologist.asu.edu/explore/plankton>, website featuring content, video, and work materials and teachers for the public and K-12 students on plankton, completed summer 2013

**Invited evening lecture: “The Fate of Coral Reefs”**, Arizona Science Museum, April 6, 2012

**Organized (with lab group) Marine Science visit/activities for** >40 school children at ASU, Dec. 7, 2010

**Participant (with lab group)**, Ocean Adventures at Changing Hands bookstore, May 23, 2009

**Invited panelist**, Randy Olson’s movie: “Sizzle”, ASU, Feb. 4, 2009

**Moderator**, Panel discussion, “What has changed for women in science since Darwin?”, ASU, Feb. 10, 2009

**Organizer**, Workshop on Plankton for Middle School Girls, Arizona Science Center, Phoenix, AZ, Feb. 2009

**Faculty ambassador, ASU (2004-2008)**, 5 guest presentations on oceanography in K-12

**Invited speaker for “Spirit of the Senses”** a Phoenix based philanthropy organization (2005-2010): “Life in the Oceans”, “Role of Oceans in Climate Change”, “Life in Europa’s Ocean?”, “Trash Islands in the Ocean” and “Gulf of Mexico Oil Spill”

**Invited speaker** for the McDowell Conservancy, June 2008

**Invited panelist**, Al Gore’s movie: “An inconvenient truth”, Global Institute for

Sustainability, January 2007

**Workshop Leader, Sally Ride Science fair**, March 2007, 2008

**Initiator and Co-Organizer, SoLS Takes a Hike** (yearly outreach event in the School of Life Sciences), 2006, 2007, 2008, 2010, 2012, 2013, 2014, 2015

**Volunteer**, Ask a Biologist, SoLS, 2004-present.

**Poster judge**: Intel-ISEF fair, May 10-11, 2005

**Coach**, Natural Sciences topic 'Oceanography', 2002/3 Academic Decathlon (national High School competition) and **Super Quiz Speaker**