



CURRICULUM VITAE

Professor Gordon T. Taylor

Microbial Oceanographer

Head of Marine Sciences Division

Director of NAno-Raman Molecular Imaging Laboratory
(NARMIL)

School of Marine and Atmospheric Sciences
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RESEARCH INTERESTS

Marine Microbial Ecology; Biogeochemistry, Hypoxia/Anoxia, Interfacial Processes, Climate Change, Chemoautotrophic Microbes, Raman Spectroscopy, Atomic Force Microscopy

EDUCATION

- 1983 Ph.D. Department of Biological Sciences, University of Southern California, CA. Thesis Title: Trophic Interactions of Cultured Ciliates and Microzooplankton (10-203 μm) from Nearshore Southern California Waters with Bacterioplankton and Dissolved Organic Matter (Advisor: Prof. Cornelius W. Sullivan)
- 1974 B.A. Biological Sciences, State University of New York at Binghamton

PROFESSIONAL BACKGROUND

- 2021-present Head of SoMAS' Marine Sciences Division
- 2013-present Director, NANO-Raman Molecular Imaging Laboratory (NARMIL)
- 2007-2008 Visiting Sabbatical Scholar, Institut de Ciències del Mar, CSIC, Barcelona, Spain
- 2006-2007 Director of Undergraduate Studies, SoMAS
- 2005-present Full Professor, School of Marine and Atmospheric Sciences (SoMAS; formerly MSRC), Stony Brook University, NY
- 1997-2005 Associate Professor, MSRC, Stony Brook University, NY
- 1990-1997 Assistant Professor, MSRC, Stony Brook University, NY
- 1994-present Member, Long Island Groundwater Research Institute, Stony Brook University, NY
- 1990 Associate Researcher, Hawaii Institute of Geophysics, University of Hawaii, HI
- 1986-1990 Assistant Researcher, Hawaii Institute of Geophysics, University of Hawaii, HI
- 1985-1990 Cooperating Faculty, Department of Oceanography, University of Hawaii, HI
- 1983-1986 Postdoctoral Associate, Department of Oceanography, University of Hawaii, HI
Advisor: David M. Karl
- 1974-1976 Assistant Project Engineer, Air and Water Pollution Assessment, Betz Environmental Engineers, Inc., Plymouth Meeting, PA

AWARDS AND HONORS

- 2015 Sustaining Fellow of the Association for the Sciences of Limnology and Oceanography (ASLO)
- 2007-2008 Sabbatical Fellowship from Spanish Ministry of Education and Science. Hosted by Institut de Ciències del Mar, CSIC, Barcelona, Spain
- 1987 Antarctic Service Medal of the U.S.A.
- 1983 Antarctic Service Medal of the U.S.A.
- 1983 National Research Council Post-doctoral Fellowship (declined)
- 1979-1980 Sigma Xi Grant-In-Aid
- 1970-1974 New York State Regents Scholarship

SOCIETIES

American Association for the Advancement of Science
Association for the Sciences of Limnology and Oceanography
American Society for Microbiology
American Geophysical Union
International Society for Microbial Ecology

EDITORIAL BOARDS

Limnology & Oceanography: Methods, Associate Editor (2002 – present)
Frontiers in Microbiology, Associate Editor (2011 – present)
Frontiers in Marine Science, Associate Editor (2013 – present)

REVIEWER FOR

National Science Foundation (BioOce, ChemOce, Polar Programs, Chemistry, Biology – 1984-present
AAAS - King Abdulaziz University, 2013-2017
American Chemical Society Books, 1991 -
Antarctic Science, 2011 -
Applied and Environ Microbiology, 1984 -
Aquatic Microbial Ecology, 1997 -
Biofouling, 1993 -
Biogeosciences, 2009 -
Biotechnology and Bioengineering, 1993 -
Biotechnology Progress, 2002 -
Chilean National Science and Technology Commission (CONICYT), 2015
Continental Shelf Research, 2011 -
Cooperative Inst. New England Mariculture & Fisheries, 2003-
Deep-Sea Research, 1988 -
Ecology, 2011 -
Environmental Microbiology, 2008 -
Estuaries and Coasts, 2012-
Estuaries, 2002 -
FEMS Microbiology Ecology, 2010 -
FEMS Microbiology Letter, 2020-
Geophysical Research Letters, 1999 -
Global Biogeochemical Cycles, 2004-
Hudson River Foundation, 1997 -
IL-IN, MD, MN Sea Grant Programs, 1997-
Int. Society Microbial Ecology Jour., 2011 -
Israel Science Foundation, 2020 -
J. Eukaryotic Microbiology, 2012 -
J. Exper. Marine Biology Ecology, 2010 -
Journal of Plankton Research, 1996 -
Kuwait Jour. Sci. & Eng., 2002
Limnol. & Oceanog:Methods, 2002 -
Limnology and Oceanography, 1987 -
Marine Biology, 1982 -
Marine Chemistry, 1993 -
Marine Ecology Progress Series, 1986 -
Marine Microbial Food Webs, 1989 -
Microbial Biotechnology, 2021 -
Nat'l. Environ Res. Council, UK, 1994 -
Nature Microbiology, 2018 -
Netherlands Organ. Scient. Res., 2010 -
Naturwissenschaften, 2009 -
NOAA's Sea Grant Program, 1987 -
NOAA's NURP, 1996 -
PLOS ONE, 2017 -
Protist, 2015-
Proc. National Academy of Sciences, 2008-
Quarterly Review of Biology, 1994 -
Research Council of Norway, 2003 -
Science Magazine, 1985 -
Sultanate of Oman, 2010 -
Texas Sea Grant Program, 2013-
Trends in Ecology & Evolution, 1999 -
USDA's CSREES Program, 2007 -
USGS Nat'l. Inst. Water Resources, 2003-
U.S. National Academies of Sciences, 2019 -
Water Research, 2002 -
Wisconsin Sea Grant, 2021 -

STONY BROOK STUDENT THESIS COMMITTEES

M. Finiguerra – M.S. (advisor)
M. Iabichella – Ph.D., (advisor)
D. Zheng – M.S. (advisor)
M. Lee - M.S. (advisor)
X. Lin – Ph.D., (advisor)
E. Suter – M.S., Ph.D. (advisor)
L. Medina Faull – Ph.D. (advisor)
C. Panzeca – Ph.D. (co-advisor)
S. Cernadas-Martín – M.S. (advisor)
A. Cohen – Ph.D. (advisor)
P. Laziuk – M.S. (advisor)
N. Butkevich – M.S. (advisor)
M. Lopez Gasca – Ph.D. (advisor)
A. Podlaska - Ph.D. (advisor)
J. Gulnick - Ph.D. (advisor)
J. Way - M.S., (advisor)
T. Anderson - M.S. (advisor)
B.-G. Lee – Ph.D.
K. Mantione – M.S. (advisor)
A. Richards Doná – M.S. (advisor)
D. Escribano – M.S. (advisor)

STUDENT COMMITTEES (cont'd.)

K. Butler – M.S. (co-advisor)
T.-Y. Ho – Ph.D.
R. Mehran – M.S. (co-advisor)
L. Halligan – M.S.
L. Zhang - M.S.
N. Zhu - Ph.D.
V. Madrid- M.S.
R. Childers - M.S.
M. Diaz - Ph.D.
D. Greenfield – Ph.D.
L. Falcon – Ph.D.
M. Hayes – M.S.
L. Cottrell – M.S.
M. Okbamichael – Ph.D.
L. Li – M.S.
X.-C. Wang – Ph.D.,
M. Dantzler – M.S.
K. Baker – Ph.D.,
D. Percy – M.S.
X. N. Li – Ph.D.
Y. Liu – Ph.D.
T. Tang – Ph.D.
F. Koch – Ph.D.
J. George – M.S.
A. Valdes Wochinger - Ph.D.
Y. Kang – Ph.D.
A. Maas – M.S.
M. Lusty – M.S.
D. Percy – M.S.
C. Vogel – Ph.D.
L. LeBlanc – Ph.D.
M. Rius – Ph.D.
K. Romans - M.S.
S. Pantoja - Ph.D.
L. Xu - Ph.D.
S. Lin - Ph.D.
M. Laverty - M.S.
B. Twining – Ph.D.
R. Foster – Ph.D.
F. Mirasol – M.S.
Y. Tsukamoto – M.S.
W. Wallace – Ph.D.
H. Wu – M.S.
X. Yang – M.S.
A. Tribble – M.S.
A. Mass – M.S.
C. Norman – M.S.
E. Mageleti – M.S.
S. Bell – Ph.D.
W. Kentrup – M.S.
C. Cisternas Novoa – Ph.D.
L. T. Tong – M.S.
M. Harke – Ph.D.
J. Thickman – M.S.
D. Bothe – M.S.
B. Kramer – Ph.D.

EXTERNAL Ph.D. THESIS EXAMINER

William Orsi – Northeastern University
Maria José Rodriguez – University of Louisiana at Lafayette
Jody J. Wright – University of British Columbia

SUPPORTED/SUPERVISED RESEARCH ASSOCIATES

G. Gyananath, Ph.D. – Postdoc – 1989-90; J. Blatt-Nichols – Technician – 1992-93;
M. Lee, M.S. – Technician – 1996-97; J. Simpson – Technician – 1997-98;
A. Modanesi – Technician – 2000-01; A. Carter – Technician – 2002-03;
Y. Xu, Ph.D. – Postdoc – 2006-07; J. Otto – Technician – 2007-2008;
E. Leonidou – Technician – 2007-08; J. Radway, Ph.D. – Postdoc – 2007-2009;
C. Bauer – Technician – 2008-2009; N. Adrion – Project Aide – 201-2014;
S. Chow – Project Aide – 2014-2017; Z.-Q. Li – Technician – 2014 – 2015;
T. Zaliznyak – Technician – 2015-present; D. Stinton – 2016-2017; L. Christensen – 2017-2018; F. Weber, Ph.D. –
Postdoc – 2016-19; E. Yakubovskaya, Ph.D. – Postdoc – 2017-present; Cody Garrison, Ph.D. - Postdoc – 2021-2023

COURSES TAUGHT

HON 495 – Honors College Senior Project – A. Novkov-Bloom, Spring and Fall 21
CEI 541 - Oceanography: Applications of the Basic Sci. to World's Ocean - Sumr '91 & Spring '96
MAR 104 - Oceanography - Sumr I & II '91, Spring '06
MAR 301 – Environmental Microbiology – Spring '98 - '05, Fall '06-'20
MAR 302/540 - Marine Microbial Ecology - Fall '91, Spring '93, '94, '95 '96, 07, Fall '97-'05, Spring '07, '09-20
MAR 487.31 & ENS 487.31 – Mentor for Independent Study of SBU undergraduates - L. Granata - Spring & Fall '92; J. Chaudry ('94 URECA), E.-J. Yi ('95), S. Chaudry ('97-'98), A. Mejia ('97), J. Simpson ('98), R. Khushial ('98), S. Felegy ('99); J. Shin – Sum '04; C. Kenkel ('05-'06), A. Larsen ('05-'07), J. Hobbs ('06-'07), E. Leonidou ('07); J. Shin ('05); A. Mattis ('06); C. Blankenship ('06); E. Burgie ('07); C. Bauer ('08); R. Bell ('08); J. Wong ('09); T. Barrett ('09); N. Mistry Spring – '10; T.-L. Moya ('10); J. Kim ('11); A. Waqar ('12); N. Adrion ('13-'14); S. Chow ('13); D. Stinton ('14); W. Li ('14); K. Gregory ('16); W. Li – ('15); A. San Pablo – ('18); L. Aranguiz – Fall '18; P. Cano – Spring – '19; R. Sheikh –'20-'21 AY; M. Gomez – Fall – '20; A. Novkov-Bloom - '20-'21 AY
MAR 488 – Internship – M. Yagudaeva – Sping – '20
BME 499 – Directed Research - E. Lo – Fall '19; G. Eng - - Fall '19
MAR 580 – Friday Ocean & Atmospheric Colloquium – Fall '01, 02, 03; Spring '02, '03, '04
MAR 502 - Biological Oceanography - Fall '91 - '03
MAR 590.31 - M. Lee, T. Anderson, A. Mooney - Fall 93, Spring '93 & 94
OCN 650.31 - D. Zheng - Spring 92, 93 & 94
MAR 576 - Current Topics in Aquatic Microbiology - Fall '92, '94, '98, '05 & '06
MAR 594.31 - Directed Readings - S. Bauer, Fall '93 & L. Matechi Fall '94
Summer NSF-sponsored REU (Research Experience for Undergraduates) program: Mentor for undergraduates enrolled in G. Flack ('99), Bucknell College; J. Ward ('00), Eckerd College; J. Sprague ('01), U. Michigan; A. Valdes ('02), U. Puerto Rico; A. Andrews ('02), Whitman College
SBU 101 - Freshman Orientation, Fall 94
MAR 539 - Bioremediation - Spring '96
MAR 537 – Estuaries from a Multidisciplinary Perspective – Fall '00
MAR 508 - Foundations of Marine Science I: Biogeochemical Processes – Fall '17

UNIVERSITY SERVICE

2021-present Head of SoMAS' Marine Sciences Division
2020-2021 Chair of SoMAS Inaugural Promotion and Tenure Committee
2020-present SoMAS COVID-19 Response Safety Committee
2020 Evaluator for Clara Tucker's Senior Honor Thesis, entitled "Distribution of EPSPS Variation across Taxonomic Groups Supports Phylogenetic Conservatism"
2016, 17, 19 Chair of SoMAS Graduate Admissions Committee
2014-present SoMAS Dean's Faculty Council (elected)
2018-present Member of SoMAS Faculty Awards Committee
2012-2013 Chair of SoMAS Ph.D. Comprehensive Examination Committee
2012-2021 Judge for Annual SoMAS Photo Competition
2012-2013 SoMAS Liaison to SBU Libraries
2012&2010 SBU Graduate Fellowships and Awards Selection Committee
2011-2014 Member of SoMAS Ph.D. Comprehensive Examination Committee
2008-2011 Faculty Advisory Council for SoMAS Dean (elected)
2007 Search Committee Member for new SoMAS Assistant Dean
2006 Selection Committee Member for Frankel Foundation Undergraduate Scholarships
2006 Search Committee Member for new Staff Assistant for SoMAS Education Office
2006&2001 MSRC search committee member for Marine Pathologist for new Marine Aquatic Disease Laboratory (MADL)
2006-2007 Director of Undergraduate Studies for MSRC
2005-2007 Provost's ad hoc Promotion Committee

UNIVERSITY SERVICE (cont'd.)

2004-2006	Member of MSRC's Ph.D. Comprehensive Examination Committee
2003	Member of MSRC's Public Outreach Strategic Planning Committee
2002	Member of ad hoc committee to review MSRC's Electronics Shop
2001-2002	Sea Grant search committee member for MADL extension position
2001	Research Foundation Search Committee for Contracts and Grants Administrator
2000-01	Co-organizer of MSRC's Friday Oceans and Atmosphere Colloquium
2000	Organizing Committee for First Long Island Sound Lobster Health Symposium
1990-2004	Ph.D. Departmental Examiner for A. D'Andrea, W. Wallace, K. Ohashi, G. Stewart, M. Dantzler, R. Foster, L. Falcon, H. Roditi, J. Todorov, L. Ferguson, D. Greenfield, P. Kelly, B. Twining, D. Wang and many others.....
1998-2002	Faculty Advisory Council to the Dean
1998-01	MSRC Graduate Admissions Committee
1998	SBU Graduate Fellowships and Awards Selection Committee
1997-99	SoMAS Ship Operations & Staffing Committee
1997-1998	MSRC Task Force on Ship Use and Replacement
1995-1997	MSRC Representative to SUSB Faculty Senate
1994-1997	MSRC Undergraduate Curriculum Committee
1993-1996	MSRC Students Awards Committee
1993-95	MSRC Marine Conservation Center Advisory Committee
1993	MSRC Faculty Search Committee - Molecular Microbiologist
1992-94	MSRC Analytical Facility Committee
1992-present	MSRC Electronics Shop Committee
1992-1994	SBU Mentor Program
1992-93	MSRC Executive Committee
1992	SBU Graduate Fellowships and Awards Selection Committee
1991-1993	Friday Discussion Group Organizer

EXTRAMURAL SERVICE

2021	Mentor for High School Researcher, Sammer Soliman, "Identification and Categorization of Microplastics" as part of John F. Kennedy High School's Advanced Science Research program (Bellmore, NY)
2021	Judge for International Genetically Engineered Machine (iGEM 2021) competition sponsored by Indian Institute of Science Education and Research (IISER), Pune, India (14 Aug 2021)
2016	Organized & Chaired Special Session at Ocean Sciences Meeting, New Orleans, LA, 21-26 Feb
2014	Member, Woods Hole Oceanographic Institution <i>ad hoc</i> Promotion and Tenure Committee
2012	Organized & Chaired Special Session at Ocean Sciences Meeting Salt Lake City, UT
2010	Organized & Chaired Special Session at Ocean Sciences Meeting Portland, OR
2009	Chaired Special Session at ASLO Meeting Nice, France
2007	Volunteer Moderator for National Final Competition of National Ocean Science Bowl (sponsored by CORE & Sea Grant)
2006	Ph.D. Thesis Reader for N. K. Asha Devi of Madurai Kamaraj University, Tamil Nadu, South India
2006	Chaired Special Session at Biennial Ocean Sciences Meeting (co-sponsored by AGU, ASLO & TOS) Honolulu, HI, 20-24 Feb 06
2006	Workshop Participation - Ecosystem-based Management in New York State – Taking the Next Steps, Seamen's Institute, New York City, NY
2005	Co-Organizer of "Workshop on Nutrient Dynamics, Lower Trophic Levels and Community Metabolism in the Hudson River" at behest of Hudson River Foundation, New York City, NY
2002-2014	Volunteer Moderator and Science Judge for Regional Competition of National Ocean Science Bowl (sponsored by CORE & Sea Grant)

EXTRAMURAL SERVICE (cont'd.)

- 2002-2005 Science Judge for National Science Bowl held at SBU's SAC
- 2002 Invited panel member for USEPA-sponsored workshop, entitled "Health of Long Island Sound", Univ. Conn., Avery Point, CT.
- 2002 - Proposal Review Panel Member for NOAA's Gulf of Mexico Initiative, Sliver Springs, MD
- 2001 Mentor for Simons Summer Fellowship, K. Goodrich (01), West Islip High
- 1998 Chaired Session at Ocean Sciences Biennial Mtg. (AGU/ASLO), S.D., CA
- 1997 Proposal Review Panel Member for NSF's Polar Program, Arlington, VA
- 1994-2000 Mentor for High School Independent Researchers - A. Li ('94-95), Ward Melville H.S.; G. Tan ('98), Commack H.S.; D. Eliasi ('00), Plainview-JFK H.S.; C. Gomes ('04-'05) – Commack H.S.; K. Giaccone ('07) – Plainview H.S.; J. Sarcone ('13-'14) – Centereach H.S.
- 1994 Mentor for Minority High School Student Research Apprenticeship Program (MHSSRAP), C. Fauria ('94), Ward Melville H.S. and L. Gray ('94), Half Hollows Hills West H.S.
- 1993-2001 Mentor for SUSB Summer Research Institute, F. DiSalvo ('93) - East Hampton H.S.; M. Allison ('94), Bellport H.S.; J. Jim ('95), W.T. Clarke H.S.; Y. Kim ('96), Jericho H.S.; C. Hein ('98), Commack H.S.; C. Gomes ('99-00), Sachem H.S.; K. Goodrich (00), West Islip H.S.; Z. Hassan (01), Paul D. Schreiber H.S.; A. Tanna (01), Jericho H.S.
- 1993-2000 Mentor for N.Y. Academy of Sciences' Research Training Program, K. Kang ('93) - Harborfields High, M. Shankin ('94), Ward Melville High; A. Birch ('95) P.D. Schreiber H.S.; C.-D. Li ('96), Half Hollow Hills High; C. Teng ('98), Half Hollow Hills High; J. Kroon ('99), Northport High; M. Kinariwala ('00), East Meadow High
- 1992 Mentor for SBU Minority Research Apprenticeship Program (MRAP), C. Cruz, University of Puerto Rico
- 1992-1993 Mentor for High School Independent Researcher from Miller Place H.S., A. Lu
- 1992-1999 Mentor for High School Independent Researchers from Commack High, H. Tsai ('92-'93), F. Lee ('93), M. Schaffer ('94), D. Chang ('94), A. Ethe ('96), G. Tan ('98-'99)

CRUISE AND EXPEDITION PARTICIPATION

- 1995-2016 CARIACO Ocean Time-Series, Cariaco Basin, Venezuela, B/O Hermano Gines (43 cruises; Chief Scientist for 8 cruises)
- 2016 Field sampling campaign in permanently anoxic Green Lake, Fayetteville, NY (July 13-15)
- 2014 Three Domain MetaOmics Study of the Cariaco Basin, Venezuela, B/O Hermano Gines
- 2009-2010 Interaction of Biological and Physical factors controlling bottom dissolved oxygen. R/V Seawolf (11 cruises)
- 2007 The Oxygen Minimum Zone of the Eastern Tropical N. Pacific, R/V Seward Johnson
- 2005-07 Viral Decay in the Coastal Ocean, Long Island Sound, NY, R/V Seawolf (Chief Scientist for 4 cruises)
- 1996-1998 Variability in Bacterioplankton Production and Patterns of Organic Pool Utilization in the Lower Hudson River Estuary, R/V Onrust (Chief Scientist for 12 cruises)
- 1986 Role of microbiota in Ferromanganese Crust Formation on Cross Seamount, Hawaii - Research Submersible PISCES V. (2 cruises)
- Research on Antarctic Coastal Ecosystem Rates & Processes (RACER), Antarctic Peninsula, R/V Polar Duke
- 1985 Biological and Chemical Investigations of Pycnocline Phenomena and Processes - Research Submersible MAKALI'I. (6 cruises)
- Microbiology of Hydrothermal Vents in Guaymas Basin, Mexico - R/V ALVIN
- Microbial Dynamics of Hawaiian Ika-Shibi Fishery - Isle of Hawaii - R/V Hokusei Maru, Hokkaido University, Japan and University of Hawaii cooperative program.
- 1984 VERTEX 5 Oceanic Vertical Particle Flux - Eastern North Pacific - R/V Wecoma
- 1982-1983 Antarctic Sea Ice Microbiology - McMurdo Station, Antarctica
- 1979 Effects of Oil Spills on Microplankton Physiology - New York Bight - R/V Cape Henlopen

INVITED LECTURES

- 2021 ‘Exploring the Microcosmos with Raman Microspectrometry and Atomic Force Microscopy’, The Garcia Research Scholar Program, Stony Brook University, S.B., NY (07/22/21)
‘Exploring the MicroCosmos with Raman Microspectroscopy’, Microbial Ecology Symposium, Stockholm University, Sweden (01/07/21)

INVITED LECTURES (cont’d.)

- 2019 “Exploring the Microcosmos with Raman Microspectroscopy and Atomic Force Microscopy”, SoMAS Dean’s Advisory Council (12/16/19)
- 2018 ‘Exploring the Microcosmos with Raman Microspectrometry and Atomic Force Microscopy’, School of Marine & Atmospheric Sciences, Stony Brook University (10/19/18)
‘Exploring the Microcosmos with Raman Microspectrometry and Atomic Force Microscopy’, Graduate School of Oceanography, University of Rhode Island (10/10/18)
‘Exploring the Microcosmos with Raman Microspectrometry and Atomic Force Microscopy’, Ocean, Earth & Atmospheric Sciences, Old Dominion University (09/20/18)
‘Ocean Deoxygenation: Another Consequence of Climate Change’, SigmaCamp, Sharon, CT (08/08/18)
‘Exploring the Microcosmos with Raman Microspectrometry and Atomic Force Microscopy’, The Garcia Research Scholar Program, Stony Brook University, S.B., NY (07/09/18)
- 2017 ‘Microbiogeochemical responses to changing climatic forcing in the tropical, anoxic Cariaco Basin’, School of Freshwater Sciences, University of Wisconsin, Milwaukee, (09/20/17)
‘Exploring the Microcosmos with Raman Microspectrometry and Atomic Force Microscopy’, The Garcia Research Scholar Program, Stony Brook University, S.B., NY (06/26/17)
‘Confessions from the Cariaco Basin: Climate Change, Ocean Deoxygenation, and Other Tales’, Leibniz Institute for Baltic Sea Research (IOW) in Warnemünde, Germany (03/17/17)
- 2016 ‘Lessons from a Natural Laboratory for Ocean Deoxygenation: The Cariaco Basin’, SCOR WG144 International Symposium on Microbial Responses to Ocean Deoxygenation, National Institute of Oceanography, Goa, India (12/5/16)
‘A Witness to Climate Change: The Cariaco Basin’, introduced Venezuelan produced documentary film at the Annual Ocean Carbon and Biogeochemistry Workshop, W.H.O.I., Woods Hole, MA (07/26/16)
‘Exploring the Microcosmos with Raman Microspectrometry and Atomic Force Microscopy’, The Garcia Research Scholar Program, Stony Brook University, S.B., NY (07/12/16)
‘Exploring the Microcosmos with Raman Microspectrometry and Atomic Force Microscopy’, Advanced Energy Center Lunch & Learn Seminars, Stony Brook University, S.B., NY (04/19/16)
‘Exploring the Microcosmos with Raman Microspectrometry and Atomic Force Microscopy’, Biology & Environmental Sciences Depts. Joint Colloquium, Mount Allison College, Sackville, New Brunswick, CN (03/30/16)
‘Exploring the Microcosmos with Raman Microspectrometry and Atomic Force Microscopy’, Oceanography & Biology Depts. Joint Colloquium, Dalhousie University, Halifax, Nova Scotia, CN (03/29/16)
‘The Dynamic Microbial Ecology and Biogeochemistry of the Anoxic Cariaco Basin’s Redoxcline’, Oceanography & Biology Depts. Joint Colloquium, Dalhousie University, Halifax, Nova Scotia, CN (03/29/16)
- 2015 ‘Chemoautotrophs in Pelagic Oxygen-Depleted Systems: Current Perspectives on their Biodiversity and Roles in Carbon, Nitrogen, Sulfur and Phosphorus Cycling’, Gordon Research Conference, Hong Kong University of Science & Technology (08/06/15)
‘Microbial Ecology and Biogeochemistry across Pelagic Oxygen Boundaries’, The Ramon Margalef Summer Colloquia, Instituto de Ciencias del Mar, Barcelona, Spain (07/10/15)
- 2014 ‘Confessions from the Cariaco Basin: Climate Change, OMZs, and Other Tales’ Department of Marine and Coastal Sciences, Rutgers University, New Brunswick, NJ (10/13/14)
‘Climate Change in the Caribbean’, Caribbean Climate Change Futures 2030: *The Road To Resilience*, Institute of Caribbean Studies (ICS), Jamaican Consulate, NY (06/16/14)

INVITED LECTURES (cont'd.)

- 2013 'Confessions from the Cariaco Basin: Climate Change in the Caribbean' Three Village Lunch Club, St. George's Country Club, Setauket, NY (04/19/13)
'What do time-series observations tell us about possible changes in OMZs?' Microbial Ecology and Biogeochemistry of Oxygen-Deficient Marine Waters Workshop, Santa Cruz, Chile, Sponsored by Agouron and the Gordon and Betty Moore Foundation (03/19/13)
- 2012 'Expression of Global Climate Change in the Southern Caribbean: Results from the CARIACO Ocean Time-Series' Saanich Inlet & VENUS Workshop, Inst. Ocean Sci., Sidney, B.C., Canada, 28-29 May 2012 (05/28/12)
- 2011 'Confessions from the Cariaco Basin: Climate Change in the Caribbean', Dept. of Marine, Earth & Atmospheric Sciences, NC State University, Raleigh, NC (06/02/11)
- 2010 'Confessions from the Caribbean: Climate Change in Paradise', Inst. of Development of Education in Advanced Sciences, Hofstra University, Hempstead, NY (11/18/10)
'Microbiological and Geochemical Dynamics in the Permanently Anoxic Cariaco Basin: Deconvoluting a Fifteen Year Time Series' Internat'l. Soc. Microbial Ecologists (ISME) Mtg., Seattle, WA (08/27/10)
'Nutrients and LIS Hypoxia: A Preliminary Look-See (Newsworthy? Dunno?)', EPA Long Island Sound Study's Science and Technical Advisory Committee Workshop, Univ. of New Haven, CT (07/09/10)
- 2009 'Life without Oxygen in Venezuela's Cariaco Basin: A Modern Analog of Ancient Seas', SoMAS Public Lecture Series, Stony Brook Southampton (10/02/09)
'Contemporary Microbial Ecology and Biogeochemistry of a Paleoclimatological Treasure in the Caribbean Sea, the Anoxic Cariaco Basin (Venezuela)', Biology Dept., Drexel University, Philadelphia, PA (04/07/09)
- 2008 'Antarctic Sea Ice Microbial Communities (SIMCO): Light and Nutrients - Productivity in the Balance', Institut de Ciències del Mar, CSIC, Barcelona, Spain (06/12/08)
'Contemporary Biogeochemistry and Microbial Ecology of a Paleoclimatological Treasure in the Caribbean Sea, the Anoxic Cariaco Basin (Venezuela)', School of Biology, Technical University, Kaiserslautern, Germany (04/28/08)
'Contemporary Biogeochemistry and Microbial Ecology of a Paleoclimatological Treasure in the Caribbean Sea, the Anoxic Cariaco Basin (Venezuela)' Max Planck Institute for Marine Microbiology, Bremen, Germany (04/24/08)
'Contemporary Biogeochemistry and Microbial Ecology of a Paleoclimatological Treasure in the Caribbean Sea, the Anoxic Cariaco Basin (Venezuela)' Leibniz-Institute for Baltic Sea Research, Rostok, Germany (04/22/08)
'Contemporary Biogeochemistry and Microbial Ecology of a Paleoclimatological Treasure in the Caribbean Sea, the Anoxic Cariaco Basin (Venezuela)', Mediterr. Inst. for Advanced Studies (IMEDEA), CSIC, Mallorca, Spain (03/25/08)
'Global Climate Change: One Oceanographer's Perspective', for the International Women's Club of BCN 13 Feb 2008, Casa Orlandai, Barcelona, Spain (02/13/08)
- 2007 'Contemporary Biogeochemistry and Microbial Ecology of a Paleoclimatological Treasure in the Caribbean Sea, the Anoxic Cariaco Basin (Venezuela)', Institut de Ciències del Mar, CSIC, Barcelona, Spain (11/28/07)
'Microbial Ecology and Biogeochemistry of the Cariaco Basin: Report from the U.S.-Venezuelan CARIACO Times Series Program', VII Venezuelan Congress of Ecology, Guayana, Venezuela (11/09/07)
- 2006 'Global Climate Change: One Oceanographer's Perspective', for SBU Environmental Club & New York Public Interest Research Group, Benedict College, SBU (11/30/06)
'Global Climate Change: One Oceanographer's Perspective', Smithtown Rotary Club, Smithtown, NY (8/24/06)
- 2005 'Microbial Processes in the Anoxic Cariaco Basin', Institute for Marine and Coastal Studies, Rutgers University, New Brunswick, NJ (12/05/05)

INVITED LECTURES (cont'd.)

- 2005 'Microbial Processes in the Anoxic Cariaco Basin', International Census of Marine Microbes (ICoM), A. P. Sloan Foundation, Univ. Hawaii, Honolulu, HI (5/10/05)
'Project CARIACO: U.S.- Venezuelan Ocean Time Series in a Natural Marine Laboratory', CICESE, Ensenada, Mexico (5/2/05)
'The Effects of Groundwater Constituents on the Initiation of Brown Tide', Peconic Estuary State of the Bays Science Conference, Riverhead, NY (4/29/05)
'Project CARIACO: U.S.- Venezuelan Ocean Time Series in a Natural Marine Laboratory', MSRC Student Recruitment Retreat, Sunwood, Old Field, NY (3/12/05)
'Cycling and Transport of Carbon in Surface Waters of the Hudson River Estuary', Hudson River Foundation, New York, NY (3/10/05)
'Proyecto CARIACO: A Venezuelan-US Ocean Time Series in a Marine Natural Laboratory' Biology Dept., Universidad Simon Bolivar, Caracas, Venezuela (1/24/05)
- 2003 'Microbial Ecology of the Cariaco Basin's Oxidic/Anoxic Interface: Report from the U.S.- Venezuelan CARIACO Times Series Program', NATO Advanced Research Workshop, entitled 'Past and Present Water Column Anoxia' (<http://www.mpi-bremen.de/arw/index.htm>), held in Sevastopol, Ukraine (10/04-10/08/03)
'Microbial Carbon Transformations in the Cariaco Basin: The Pivotal Role of Planktonic Chemoautotrophs', Columbia University's Lamont-Doherty Earth Observatory, Palisades, NY (4/04/03)
- 2002 'Microbial Carbon Transformations in the Cariaco Basin: The Pivotal Role of Planktonic Chemoautotrophs', Instituto di Biologia del Mare, Venice, Italy (7/24/02)
- 2001 'Microbial Carbon Transformations in the Cariaco Basin: The Pivotal Role of Planktonic Chemoautotrophs', Univ. South Florida, St. Petersburg (3/30/01)
- 2000 'Environmental Stressors and Lobster Mortality', Lobster and Long Island Sound: 1999-2000 Conference, SBU (5/25/00)
'Environmental Stressors and Lobster Mortality', MSRC Friday Seminar (4/28/00)
'Hydrolytic Ectoenzyme Activity of Bacterioplankton Above and Within the Anoxic Cariaco Basin: Implications for Biopolymer Decomposition.' Ocean Sciences Mtg, San Antonio, (w/ M. Iabichella-Armas) (1/26/00)
- 1997 'Progress toward Understanding Microbial Processing of LMW Fatty Acids and Organic Carbon on the Cariaco Basin', CARIACO Program Mtg., Univ. South Florida, St. Petersburg, FL. (7/27/97)
'The Conceptual Ecosystem Model', Hudson River Monitoring Program Workshop III held at Inst. Ecosystems Studies, Millbrook, NY (1/28/97)
- 1996 'Microbiological Populations, Bacterial Productivity and Acetate Cycling', Instituto Oceanografico de Venezuela, Universidad de Oriente, Boca de Rio, Nueva Esparta, Venezuela (7/12/96)
'Modern Microbiological Oceanographic Methods Employed in the CARIACO Project', Estacion de Investigaciones Marinas de Margarita, Fundacion La Salle, Punta de Piedras, Nueva Esparta, Venezuela (7/8/96)
'Microbiological Populations, Bacterial Productivity and Acetate Cycling', Instituto Oceanografico de Venezuela, Universidad de Oriente, Cumana, Venezuela (7/4/96)
- 1995 'Latest Advances in Bioremediation', New Directions for Ground Water Cleanup, Long Island Groundwater Research Institute, SBU (12/5/95)
'Factors Influencing Microbial Degradation of Sorbed Organic Matter in Marine Sediments and Elsewhere', Dept. Oceanography, Old Dominion University, Norfolk, VA (4/28/95)
- 1994 'Bioavailability of Adsorbed Organic Material in Marine Sediments', Bioremediation Seminar Series, Dept. Oceanography, Univ. Washington, Seattle (5/20/94)
'Marine Snow, Microbial Food Webs and Carbon Cycling' – Southampton College, sponsored by John P. McGrath Fund, Marine Science Club, and Beta Beta Beta Nat'l. Biological Honorary (3/24/94)

PUBLICATIONS (*denotes student Mentee) (131)

- *Cohen AB, *Novkov-Bloom A, *Wesselborg C, *Yagudaeva M, **Taylor GT**. (2021) Fluorescence in situ hybridization in natural systems with Cyanobacteria blooms: procedural artifacts and potential solutions. *Limnology and Oceanography: Methods*. 19(7): 457-475 doi: 10.1002/lom3.10437
- *Medina Faull LE, Zaliznyak T, and **Taylor GT**. (2021) Assessing diversity, abundance, and mass of microplastics (~ 1–300 µm) in aquatic systems *Limnology and Oceanography: Methods*. 19 (6): 369-384, doi: 10.1002/lom3.10430
- Nayfach S, Roux S, Seshadri R, Udway D, Varghese N Schulz F, **IMG/M Data Consortium**, et al. (2020) A Genomic Catalogue of Earth's Microbiomes. *Nature Biotechnology*
<https://doi.org/10.1038/s41587-020-0718-6>.
- *Suter EA, Pachiadaki MG, Montes E, Edgcomb VP, Scranton MI, Taylor CD, **Taylor GT**. (2020) Diverse nitrogen cycling pathways across a marine oxygen gradient indicate nitrogen loss coupled to chemoautotrophic activity *Environmental Microbiology* 23(6): 2747-2764 doi:10.1111/1462-2920.15187
- Mara P, Vik D, Pachiadaki MG, *Suter EA, Poulos B, **Taylor GT**, Sullivan MB, Edgcomb VP. (2020). Viral elements and their potential influence on microbial processes along the permanently-stratified Cariaco Basin redoxcline. *International Society for Microbial Ecology Journal*. <https://doi.org/10.1038/s41396-020-00739-3>.
- *Medina Faull L, Mara P, **Taylor GT**, Edgcomb VP. (2020). Imprint of trace dissolved oxygen on prokaryoplankton community structure in an oxygen minimum zone. *Frontiers in Marine Sciences* 7:360 doi:10.3389/fmars.2020.00360
- Yakubovskaya E, Zaliznyak T, Martínez Martínez J, **Taylor GT** (2020). Virus purification protocol for Ehv-163 and other viruses. protocols.io dx.doi.org/10.17504/protocols.io.bcpvvn6
- Yakubovskaya E, Zaliznyak T, Martínez Martínez J, **Taylor GT** (2020). New chemiphotobleaching protocol for Raman spectroscopy. protocols.io dx.doi.org/10.17504/protocols.io.bchqit5w
- Scranton MI, **Taylor GT**, Thunell RC, Muller-Karger FE, Astor Y, Swart P, Edgcomb VP, Pachiadaki MG (2020). Anomalous $\delta^{13}\text{C}$ in POC at the chemoautotrophy maximum in the Cariaco Basin. *J Geophys. Res. – Biogeosciences*, 125, e2019JG005276; doi:10.1029/2019JG005276.
- Yakubovskaya, E, Zaliznyak T, Martínez Martínez J, **Taylor GT** (2019). Tear down the fluorescent curtain: A new fluorescence suppression method for Raman microspectroscopic analyses. *Scientific Reports*, 9: 15785. doi:10.1038/s41598-019-52321-3
- Louca S, Astor YM, Doebeli M, **Taylor GT**, Scranton MI. (2019) Microbial metabolite fluxes in a model marine anoxic ecosystem. *Geobiology* 17:628–642. doi: 10.1111/gbi.12357
- Weber, F, Zaliznyak, T, **Taylor GT** (2019) Sample preparation for 3D-Raman microspectroscopic mapping of fully hydrated protist cells. <https://www.protocols.io/view/sample-preparation-for-3d-raman-microspectroscopic-ztyf6pw>
- Louca S, Scranton MI, **Taylor GT**, Astor YM, Crowe SA, & Doebeli M. (2019). Circumventing kinetics in biogeochemical models. *Proc. Nat'l. Acad. Sci. (USA)*, 23: 11329-11338
<https://doi.org/10.1073/pnas.1819883116>
- Taylor GT**. (2019). Windows into microbial seascapes: Advances in nanoscale imaging and application to marine science. *Annual Review of Marine Sciences* 11:465–90.
- Muller-Karger F, Astor Y, Benitez-Nelson C, Buck K, Fanning K, Lorenzoni L, Montes E, Scranton M, Rueda-Roa D, **Taylor G**, Thunell R, Tappa E, Varela R. (2019). Scientific legacy of the CARIACO oceanographic time-series program. *Annual Review of Marine Sciences* 11:413–37.
- Jürgens K, **Taylor GT**. (2018). Chap. 7: Microbial ecology and biogeochemistry of oxygen-deficient water columns, In: *Microbial Ecology of the Oceans*, 3rd Edn., Wiley Blackwell Press (Gasol JM & Kirchman DL, eds.), Chap. 7, p. 231-288.
- Taylor GT**, *Suter EA, Pachiadaki MG, Astor Y, Edgcomb VP, Scranton MI. (2018). Temporal shifts in dominant sulfur-oxidizing chemoautotrophic populations across the Cariaco Basin's redoxcline. *Deep-Sea Res II*, 156: 80-96. <https://doi.org/10.1016/j.dsr2.2017.11.016>
- *Suter EA, Pachiadaki MG, **Taylor GT**, Astor Y, Edgcomb VP. (2018) Free-living chemoautotrophic and particle-attached heterotrophic prokaryotes dominate microbial assemblages along a pelagic marine redox gradient. *Environ Microbiol*, 20(2): 693-712. doi:10.1111/1462-2920.13997.

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- Astor, YM, Lorenzoni L, Guzman L, Fuentes G, Muller-Karger F, Varela R, Scranton M, **Taylor GT**, Thunell R. (2017). Distribution and variability of the marine dissolved inorganic carbon system in the Cariaco Basin, Venezuela. *Mar Chem* 195: 15-26, doi.org/10.1016/j.marchem.2017.08.004.
- Taylor GT**, *Suter E, Li Z-Q, *Chow S, *Stinton D, Zaliznyak T, Beaupré S. (2017) Single-cell growth rates in photoautotrophic populations measured by stable isotope probing and resonance Raman microspectrometry. *Frontiers in Microbiology* doi: 10.3389/fmicb.2017.01449
- Taylor GT**, Li Z-Q, *Suter E, *Chow S. (2017). Modified Filter-Transfer-Freeze ("FTF") Technique for Raman microspectroscopic analysis of single cells. dx.doi.org/10.17504/protocols.io.g4qbyvw
- *Cernadas-Martín S, Scranton MI, Astor Y, **Taylor GT**. (2017) Aerobic and anaerobic ammonia oxidizers in the Cariaco Basin: Identification, quantification and community structure. *Aquatic Microbiol Ecol* 79: 31–48, DOI: 10.3354/ame01817
- *Kang Y, Tang Y-Z, **Taylor GT**, Gobler CJ. (2017). Discovery of a resting stage in the harmful, brown tide-causing pelagophyte, *Aureoumbra lagunensis*: a mechanism facilitating recurring blooms and recent expansion? *J Phycol* 53: 118-130. DOI: 10.1111/jpy.12485
- *Suter EA, Scranton MI, *Chow S, *Medina L, **Taylor GT**. (2017). Niskin bottle sample collection can alias microbial community composition and biogeochemical interpretation. *Limnol Oceanogr* 62: 606-617. DOI: 10.1002/lno.10447
- Li L, Liu H, Wang L, Yue S, Tong X, Zaliznyak T, **Taylor, G**, Wong, SS. (2016). Chemical strategies for enhancing activity and charge transfer in ultrathin Pt nanowires immobilized onto nanotube supports for the oxygen reduction reaction. *ACS Applied Materials & Interfaces* 8: 34280–34294
- Wang L, Han J, Sundahl B, Thornton S, Zhu YQ, Zhou RP, Jaye C, Liu HQ, Li ZQ, Taylor GT, Fischer DA, Appenzeller J, Harrison RJ, Wong., SS (2016). Ligand-induced dependence of charge transfer in nanotube-quantum dot heterostructures. *Nanoscale* 8 (34):15553-15570
- *Rodriguez-Mora MJ, Edgcomb VP, Taylor CD, **Taylor GT**, Scranton MI, Chistoserdov AY (2016). The diversity of sulfide oxidation and sulfate reduction genes expressed by the bacterial communities of the Cariaco Basin, Venezuela. *Open Microbiol Jour* 10: 140-149
- Han J, McBean C, Wang L, Hoy J, Jaye C, Liu H, Li Z-Q, Sfeir M, Fischer D, **Taylor G**, Misewich J, Wong SS (2015). Probing structure-induced optical behavior in a new class of self-activated luminescent 0D/1D CaWO₄ metal oxide – CdSe nanocrystal composite heterostructures. *Chem Materials* 27: 778–792.
- *Liu L, Lwiza KMM, **Taylor GT** (2015). Importance of the bacterial dynamics in model simulations of seasonal hypoxia. *Cont Shelf Res* 105: 1-17.
- Taylor GT** (2015). Review of *The Biology And Ecology Of Tintinnid Ciliates Models For Marine Plankton* by J.R. Dolan, D.J.S. Montagnes, S. Agatha, D. W. Coats and D. K. Stoecker (Eds.), Wiley-Blackwell, Chichester, U.K. 2013, Quarterly Review of Biology, Univ. Chicago Press, pp. 314-315.
- *McParland, E, Benitez-Nelson CR, **Taylor GT**, Rollings A, Lorenzoni L (2015). Cycling of suspended particulate phosphorus across the redoxcline of the Cariaco Basin. *Mar Chem* 176: 64-74.
- *Rodriguez-Mora MJ, Scranton MI, **Taylor GT**, Chistoserdov AY (2015). The dynamics of the bacterial diversity in the redox transition and anoxic zones of the Cariaco Basin assessed by massively parallel tag sequencing. *FEMS Microbiol Ecol* 91: (9) doi: 10.1093/femsec/fiv088.
- Wang L, Han J, Zhu Y, Zhou R, Jaye C, Liu H, Li Z-Q, **Taylor G**, Fischer D, Appenzelle, J, Wong SS (2015). Probing the dependence of electron transfer on size and coverage in carbon nanotube-quantum dot heterostructures. *J Phys Chem* 119: 26327–26338.
- Lopez G, Carey D, Carlton J, Cerrato R, Dam H, DiGiovanni R, Elphick C, Frisk M, Gobler C, Hice L, Howell P, Jordaan A, Lin S, Liu S, Lonsdale D, McEnroe M, McKown K, McManus G, Orson R, Peterson B, Pickerell C, Rozsa R, Siuda A, Thomas E, **Taylor G**, Shumway S, Talmage S, Van Patten M, Vaudrey J, Wikfors G, Yarish C, Zajac R (2014). Biology and Ecology of Long Island Sound. Chapter 6. In: Long Island Sound: Prospects for the Urban Sea, J. S. Latimer, M. A. Tedesco, R. L. Swanson, C. Yarish, P. E. Stacey, and C. Garza, eds. Springer, New York. pp 285- 479.
- *Suter E, Lwiza KMM, Rose JM, Gobler C, **Taylor GT** (2014). Nutrient and phytoplankton regime shifts during decadal decreases in nitrogen loadings to the urbanized Long Island Sound estuary. *Mar Ecol Prog Ser* 497: 51-67.

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- Astor YM, Lorenzoni L, Thunell R, Varela R, Muller-Karger F, Troccoli L, **Taylor GT**, Scranton MI, Tappa E, Rueda D (2013). Interannual variability in sea surface temperature and $f\text{CO}_2$ changes in the Cariaco Basin, *Deep-Sea Res II*, 93: 33–43.
- Gobler CJ, Lobanov AV, Tang Y-Z, Turanov AA, Zhang Y, Doblin M, **Taylor GT**, Sañudo-Wilhelmy SA, Grigoriev IV, Gladyshev VN (2013). The central role of selenium in the biochemistry and ecology of the harmful pelagophyte, *Aureococcus anophagefferens*. *J Int Soc Microb Ecol* 7: 1333-1343.
- *Rodriguez-Mora MJ, Madrid VM, **Taylor GT**, Scranton MI, Chistoserdov AY (2013). Bacterial community composition in a large marine anoxic basin: a Cariaco Basin time-series survey. *FEMS Microbiol Ecol* 84: 625-639.
- Muller-Karger F, **Taylor GT**, Astor Y, Thunell RC, Scranton MI, Varela R, Troccoli Ghinaglia L, Lorenzoni L, Montes E, Fanning KA, Benitez-Nelson C (2013). From Affiliated Project: The CARIACO Basin Ocean Time-Series. Land-Ocean Interactions in the Coastal Zone Inprint, ISSN 2070-2442 2013 Issue 1, pp. 5-17.
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- Taylor GT** (2013). Review of *Marine Microbiology: Ecology and Applications*, 2nd Edn. by Colin Munn, Garland Science Publ. NY and London, 2011 Quarterly Review of Biology, Univ. Chicago Press, 88(2): 144.
- Muller-Karger FE, Lorenzoni L, Montes E, **Taylor G**, Thunell R, Scranton M, Benitez-Nelson C, Astor Y, Varela R, Troccoli L, Fanning K (2013). The CARIACO Ocean Time-Series: 18 years of international collaboration in ocean biogeochemistry and ecological research. *Ocean Carbon and Biogeochemistry News* 6 (3): 7-12.
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ABSTRACTS (presenter in bold face)

- 2021 Particle-associated, sinking, and free-living microbial assemblages in permanently redox-stratified Fayetteville Green Lake, NY. ASLO Aquatic Sciences Virtual Mtg., 22-27 June 2021 (**AB Cohen**, K Butler, V Klepac-Ceraj, L Christensen, J Cram, M McCormick, F Weber, GT Taylor)
- 2020 Stable Isotope Probing and Confocal Raman Microspectrometry: A Promising Toolkit to Study Predator-Prey Relationships among Protists and Prokaryotes 39th Ann. Mtg German Society of Protozoology, Kaiserslautern, DE, 04-06 Mar 2020 (**F Weber**, T Zaliznyak, VP Edgcomb, GT Taylor)
- Particle-Associated Biogeochemical Processes in Fayetteville Green Lake, a High Sulfur, Permanently Anoxic Lake. Ocean Sciences Mtg., San Diego, CA, 16-21 Feb 2020 (**AB Cohen**, F Weber, E Lo, GT Taylor)
- Follow the Carbon: From Environment to Microbial Prey to Predator and from Host to Virus using SIP-Raman Microspectroscopy. Ocean Sciences Mtg., San Diego, CA, 16-21 Feb 2020 (**GT Taylor**, F Weber, E Yakubovskaya, T Zaliznyak, J Martinez Martinez, V Edgcomb)
- 2019 Environmental Drivers of Variability in Microbial Communities and Activities in Surface and Deep Waters during the 21 Year Cariaco Basin Time-Series. ASLO Aquatic Sciences Mtg., San Juan, PR, 23 Feb – 1 Mar 2019 (**GT Taylor**, L Medina Faull, E Suter, M Iabichella-Armas, X Lin, A Podlaska, S Cernadas Martín, M Lopez Gasca, R Varela, Y Astor, F Muller-Karger, L Lorenzoni, D Rueda, RC Thunell, MI Scranton)
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- Phytoplankton-Viral Interactions at the Molecular Level: Elemental Transfer Study by Raman Spectroscopy. ASLO Aquatic Sciences Mtg., San Juan, PR, 23 Feb – 1 Mar 2019 (**E Yakubovskaya**, T Zaliznyak, J Martinez Martinez, GT Taylor)
- Stable Isotope Probing and Confocal Raman Microspectrometry: A Promising Toolkit to Study Predator-Prey Relationships among Protists and Prokaryotes ASLO Aquatic Sciences Mtg., San Juan, PR, 23 Feb – 1 Mar 2019 (**F Weber**, T Zaliznyak, VP Edgcomb, GT Taylor)
- 2018 A New Method to Measure Inter- and Intra-Specific Variability in Primary Productivity: Stable Isotope Probing and Single-Cell Resonance Raman Microspectrometry. Ocean Carbon & Biogeochemistry Summer Workshop, WHOI, Woods Hole, MA, 25-28 June 2018 (**GT Taylor**, EA Suter, T Zaliznyak SR Beaupré)
- Cryptic sulfur cycling in the Cariaco Basin. ASLO/AGU Ocean Sciences Mtg., Portland, OR, 11-16 Feb 2018 (MI Scranton, V Bruchert, E Suter, M Pachiadaki, J Rojas, V Edgcomb, **GT Taylor**)
- Tracking Assimilation of Bacterial Prey Biomass into Protozoan Predators by Stable Isotope Probing and Confocal Raman Microspectrometry. ASLO/AGU Ocean Sciences Mtg., Portland, OR, 11-16 Feb 2018 (**F Weber**, T Zaliznyak, R Beinart, VP Edgcomb, GT Taylor)
- 2018 Dark carbon assimilation driven by sulfur cycle intermediate species in a high-sulfur meromictic lake: implications for cryptic sulfur cycling. Gordon Research Conference: Geobiology, Galveston, TX, 21-26 Jan 2018 (**AB Cohen**, L Christensen, GT Taylor)
- 2017 Particle-associated microbes contribute to cryptic cycling of sulfur and nitrogen. ASLO Aquatic Sciences Mtg. Honolulu, HI, 26 Feb – 3 Mar (**EA Suter**, M Pachiadaki, VP Edgcomb, MI Scranton, Y Astor, GT Taylor)
- 2016 Lessons from a natural laboratory for ocean deoxygenation: The Cariaco Basin, SCOR WG144 International Symposium on Microbial Responses to Ocean Deoxygenation, NIO, Goa, India, 3-6 Dec 2016 (**GT Taylor**, MI Scranton, EA Suter, S Cernadas Martín, Y Astor, MG Pachiadaki, VP Edgcomb)
- Linking prokaryotic assemblages and biogeochemistry to long-term declines in chemoautotrophy in the Cariaco Basin, Ocean Carbon and Biogeochemistry Annual Workshop, Woods Hole, MA, 25-28 July 2016 (**GT Taylor**, EA Suter, S Chow, D Stinton, Y Astor, MI Scranton)
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- The CARIACO Ocean Time-Series: two decades of oceanographic observations to understand linkages between biogeochemistry, ecology, and long-term environmental variability. ASLO/AGU Ocean Sciences Mtg., New Orleans, LA, 21-26 Feb 2016 (**L Lorenzoni**, FE Muller-Karger, DT Rueda-Roa, R Thunell, MI Scranton, GT Taylor, CR Benitez-Nelson, E Montes, YM Astor, J Rojas)
- Redox Conditions and Microbial Particle Association: A Multi-Year Study in the Cariaco Basin. ASLO/AGU Ocean Sciences Mtg., New Orleans, LA, 21-26 Feb 2016 (**E Suter**, M Pachiadaki, VP Edgcomb, MI Scranton and GT Taylor)
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- 2015 Polyphasic approach to microbial processes and interactions along a stable, marine redoxcline. ASLO Mtg. Granada, Spain 22-27 Feb 2015 (**M Pachiadaki**, E Suter, C Taylor, E Montes-Herrera, G Taylor, V Edgcomb)
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- 2015 Linking biogeochemical function to phylogeny in marine microbial communities using SIP-RAMAN-FISH. ASLO Mtg. Granada, Spain 22-27 Feb 2015 (**GT Taylor**, E Suter, D Stinton, S Chow and Z-Q Li)
- A source for “missing” oxidant and reductant at the redox interface of the Cariaco Basin. ASLO Mtg. Granada, Spain 22-27 Feb 2015 (**M Scranton**, G Taylor, F Muller-Karger, L Lorenzoni, K Fanning, R Thunell, C Benitez-Nelson, Y Astor, R Varela)
- 2015 Elemental composition (C, N and P) of sinking and suspended particulate matter in the Cariaco Basin, Venezuela. ASLO Mtg. Granada, Spain 22-27 Feb 2015 (**CR Benitez-Nelson**, R Thunell, J Pinckney, L Lorenzoni, E Montes, F Muller-Karger, M Scranton, G Taylor, R Varela, Y Astor)
- A source for “missing” oxidant and reductant at the redox interface of the Cariaco Basin. Gordon Research Conference in Chemical Oceanography, Holderness School, NH, Jul 26-31, 2015 (**MI Scranton**, G Taylor, F Muller-Karger, L Lorenzoni, K Fanning, R Thunell, C Benitez-Nelson, Y Astor, R Varela)
- Insights into phosphorus biogeochemistry from an anoxic marine basin. Geological Society of America Annual Meeting. Baltimore, MD, Nov 1-4, 2015 (**CR Benitez-Nelson**, E McParland, GT Taylor, RC Thunell)
- The Cariaco Basin ecosystem’s response to global climate change. XI Congreso Venezolano de Ecología, Porlamar, Venezuela, Nov 09-13, 2015 (**GT Taylor**, F Muller-Karger, R Thunell, M Scranton, Y Astor, R Varela, L Troccoli Ghinaglia, L Lorenzoni, KA Fanning, S Hameed and O Doherty)
- 2014 Dynamics in the Cariaco Basin: analogue for expanding oxygen minimum zones? Ocean Sciences Mtg., Honolulu, HI 23-28 Feb 2014 (**GT Taylor**, MI Scranton, A Podlaska, EA Suter, F Muller-Karger, K Fanning, RC Thunell, Y Astor)
- Partitioning of sulfur cycling between particle-associated and free-living organisms in the Cariaco Basin. Ocean Sciences Mtg., Honolulu, HI 23-28 Feb 2014 (**Suter EA**, MI Scranton, L Tong, Y Astor, GT Taylor)
- Phosphorus cycling across the oxic/anoxic interface of the Cariaco Basin. Ocean Sciences Mtg., Honolulu, HI 23-28 Feb 2014 (**Benitez-Nelson CR**, E McParland, A Opseth, GT Taylor, RC Thunell)
- Interannual and sub-decadal variability in hydrography and nutrient concentrations in the Cariaco Basin. European Geophysical Union Mtg., Vienna, Austria, 27 Apr – 02 May 2014 (**Scranton, MI**, G Taylor, F Muller-Karger, L Lorenzoni, E Montes, K Fanning, R Thunell, C Benitez-Nelson, Y Astor, R Varela)

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- 2014 Elemental composition (C, N and P) of sinking and suspended particulate matter in the Cariaco Basin, Venezuela. Ocean Carbon and Biogeochemistry (OCB) Summer Workshop, Woods Hole Oceanographic Institution, July 21-24, 2014 (**CR Benitez-Nelson**, R Thunell, J Pinckney, L Lorenzoni, E Montes, F Muller-Karger, M Scranton, G Taylor, R Varela, Y Astor)
- The CARIACO Ocean Time-Series: 19 years of international collaboration in ocean biogeochemistry and ecological research. Ocean Carbon and Biogeochemistry (OCB) Summer Workshop, Woods Hole Oceanographic Institution, July 21-24, 2014 (**L Lorenzoni**, F Muller-Karger, E Montes, G Taylor, R Thunell, M Scranton, CR Benitez-Nelson, Y Astor, R Varela, L Troccoli, K Fanning)
- Atypical behavior of the biological carbon pump in an oxygen-depleted water column: The Cariaco Basin case study. Ocean Carbon and Biogeochemistry (OCB) Summer Workshop, Woods Hole Oceanographic Institution, July 21-24, 2014 (**GT Taylor**, MI Scranton, R Thunell, C Benitez-Nelson, L Lorenzoni, Y Astor, R Varela, F Muller-Karger)
- 2013 Climate-induced ecosystem and biogeochemical shifts in the Cariaco Basin (Venezuela - southeastern Caribbean Sea), IMBER IMBIZO III, 28-31 January 2013, Goa, India (**E Montes**, FE Muller-Karger, GT Taylor, L Lorenzoni, D Rueda-Roa, YM Astor, R Varela)
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