

CURRICULUM VITAE

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RESEARCH INTERESTS

- Trace level molecular and isotopic organic geochemistry
- The production, flux and early diagenesis of organic material in the marine environment, focusing on the use of organic, inorganic and isotopic tracers to elucidate fundamental interactions and linkages of particle flux with physical, chemical and biological processes on timescales of days to decades
- Application of molecular, isotopic and elemental tracers in carbon cycling studies, including development of molecular and isotopic proxies for paleoclimate reconstruction
- The use of plant biomarkers in aerosols and climate studies as indicators of terrestrial biosphere functioning

EDUCATION

1989 PhD Columbia University, New York NY (Lamont-Doherty Geological Observatory (LDGO), Palisades NY)
1987 MPhil Columbia University, New York NY (LDGO)
1982 MA Columbia University, New York NY (LDGO)
1975 BA The Johns Hopkins University, Baltimore MD
1971/72 Georgia Institute of Technology, Atlanta GA

PROFESSIONAL EMPLOYMENT

2019-present Senior Scientist, Bermuda Institute of Ocean Sciences, Bermuda
2016-present MBL Fellow (resident), Ecosystems Center, Marine Biological Laboratory, Woods Hole MA
2019-present Visiting Scientist, Geological Sciences, Brown University
2009-2018 Adjunct Associate Professor, Geological Sciences, Brown University
2017-2019 Adjunct Associate Professor, School of Marine Science and Technology (SMAST), University of Massachusetts Dartmouth
2004-2016 Adjunct Associate Scientist (resident), Ecosystems Center, Marine Biological Laboratory, Woods Hole MA
2004-2019 Associate Research Scientist, Bermuda Institute of Ocean Sciences, Bermuda
1998- 2004 Associate Scientist, Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, Woods Hole MA
1994-1997 Assistant Scientist, Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, Woods Hole MA

- 1994-1995 Adjunct Research Fellow, Biogeochemistry Research Centre, University of Bristol, UK
- 1991-1993 Research Fellow, School of Chemistry and Biogeochemistry Research Centre, University of Bristol, UK
- 1989-1991 Postdoctoral Research Associate, School of Chemistry, University of Bristol, UK
- 1980-1988 M.A./PhD Research Associate, Lamont-Doherty Geological Observatory of Columbia University, Palisades NY
- 1978-1980 Research Associate, The Chesapeake Bay Institute, The Johns Hopkins University, Baltimore MD
- 1976-1978 Research Assistant, The Chesapeake Bay Institute, The Johns Hopkins University, Baltimore MD

PROFESSIONAL ACTIVITIES/SERVICE

- Principal Investigator of the Oceanic Flux Program particle flux time-series (1996-present)

In addition to research, facilitating the oceanographic community's use of the OFP sample collection and database and providing sea-going opportunities constitutes a large component of the OFP time-series activities. The OFP cruises also include a large education and outreach component.

- Oceanographic Research Fleet service:

Chair, Science Oversight Committee, Regional Class Research Vessel (RCRV) construction (2013-present, SOC Chair, 2019-present).

The SOC duties include review of the scientific merit of project-specific plans and processes involved in construction of the new RCRV(s) including, but not limited to, science outfitting and final arrangements, cost and schedule realism, budgeted contingencies, organizational structure and management, and, if required, project de-scoping decisions. The SOC is currently participating in review of the construction phase for three RCRVs, and providing science oversight and instrumentation recommendations when requested, and participating in planning for science-related sea trials post-construction.

UNOLS Council (2020-present)

The UNOLS Council represents and acts on behalf of the UNOLS membership as the operating and governing body of UNOLS. It monitors UNOLS activities, giving attention to the effective use of available oceanographic facilities and determining the performance of UNOLS institutions in providing access to federally supported facilities for scientists from other institutions.

Chief Scientist Training cruises (RV Wecoma, Astoria Canyon 2011; RV Atlantic Explorer, Barbados-Bermuda 2014)

The CST cruise/workshop is an NSF/UNOLS funded initiative to provide young oceanographers with seagoing experience and research opportunities and to train them how to plan and execute a successful research cruise, from proposal planning to cruise operations to post-cruise reporting and results dissemination. I was mentor on a RV Wecoma cruise in the Astoria Canyon area in 2011. I was PI on the proposal and mentor on a 9 day transect on the Atlantic Explorer across the western subtropical Atlantic (Bridgetown, Barbados to Bermuda) and organized a post-cruise workshop with agency representation at BIOS.

Fleet Improvement Committee, UNOLS (2007-2012).

The Fleet Improvement Committee works to assure the continuing excellence of the UNOLS fleet, to improve the capability and effectiveness of individual ships and to assure that the number, mix and overall capability of ships in the UNOLS fleet match the science requirements of academic oceanography in the U.S.

- US Science Review panels:
 - Gulf of Mexico Research Initiative (GoMRI) panels
 - NSF, various OCE panels
 - Facility User Representative, NSF Subcommittee on Recompetition, Major Research Facilities (2011)
 - Committee of Visitors, NSF. Ocean Science Integrated Program Services (2011)
 - Committee of Visitors, NSF. Ocean Science Integrated Program Services (2008)
- International Geosciences Review Panels:
 - KIOST East Sea Research Institute, External Program/Facility Reviewer, Iljin, South Korea (2012)
 - Darwin Program, Netherlands (2010)
 - Science Foundation of Ireland (SFI) (2007-2009)
- Activities related to ship operations of R/V Atlantic Explorer at BIOS (ongoing)
- Reviewer for agency proposals (NSF, NERC-UK, French ANR) and sci. journals (e.g. Atmos. Environ., Biogeochem. Cycles, Deep-Sea Res., Geochim. Cosmochim Acta, J. Geophys. Res., Limnol. Oceanogr., Mar. Poll. Bull., Mar. Chem., Nature, Paleoceanogr., Prog. Oceanogr., Science, etc.)

RESEARCH GRANTS

Pending:

- "Times series particle flux measurements in the Sargasso Sea" - NSF, Chemical Oceanography, 10/21 - 9/24, \$2,336,682

Current:

- "Times series particle flux measurements in the Sargasso Sea" - NSF, Chemical Oceanography, 10/18 - 9/21, \$1,507,839

Recently ended:

- "Nearshore habitat utilization by sea turtles within Massachusetts waters" - Massachusetts Environmental Trust (co-PI, 7/18 – 6/19, \$8,290)
- "Development of a novel SIMS intrashell analytical methodology for pteropod research" (co-PI A. Maas) BIOS Innovative award, 4/17-4/18, \$24,527

EDUCATION AND OUTREACH

Graduate and early career:

- Research Co-advisor to MS and PhD students:
 - N. Steiger (MS 2019, UMass Dartmouth SMAST, 2017-2019, advisor C. Pilskaln) Thesis topic: Seasonal and intra-annual variability in shell chemistry of planktonic foraminifera *Globigerinoides ruber* (white) morphotypes in the Sargasso Sea: 1998-2010.
 - V. Gray (MS 2019, UMass Dartmouth SMAST, 2017-2019, advisor C. Pilskaln) Thesis topic: Environmental controls on *Heliconoides inflatus* and *Styliola subula* pteropod shell flux and isotopic composition in the Sargasso Sea.

- Y. Zheng (PhD 2018, Brown University, 2013-2018, advisor Y. Huang) Thesis topic: Chemotaxonomic studies of alkenone synthesis.
- K. Salmon (PhD 2015 Open University, UK 2011- 2015, advisors P. Anand/P. Sexton) Thesis topic: Foram shell-based paleoproxy development.
- H. Smeti (PhD 2015 Univ. Marseilles, FR 2010-2014) Thesis topic: Zooplankton studies using acoustic backscatter.
- A. Vandermark (MS 2012 Univ. Del., 2010-2012, advisor T. Church) Thesis topic: Trace elemental flux
- T. Babila (PhD 2012 Rutgers, 2008-2012, advisor Y. Rosenthal) Thesis topic: Foram shell-based paleoproxy development.
- J. Young (PhD 2011 Oxford University, UK, 2009-2011, advisor R. Rickaby) Thesis topic: Carbon isotopic fractionation by phytoplankton.
- PI, Chief Scientist Training cruise and workshop (May/June 2014).
Grant PI to develop cruise and workshop held at BIOS, and mentored 13 graduate student and early career participants.
- Developed and taught graduate-level 3-wk short-course “Moored Observatories” for BIOS’s Center of Excellence in Observational Oceanography (CoE, 2008-2013).
The Center of Excellence was a 5-yr initiative, funded by the Nippon Foundation and SCOR’s Partnership Organizations in Global Oceanography (POGO), that brought exceptional graduate level scholars from developing countries to BIOS for a 8-10 month program in observational oceanography. The “Moored Observatories” course I developed included both classroom lectures (instrumentation, engineering, sensors, communications, modeling) and shipboard training conducted on OFP cruises.
Research project advisor for CoE scholars:
 - M. Leal Acosta (Mexico) Project: "Elemental composition of the particle flux in the deep Sargasso Sea" (Spring 2013, 2014)
 - S. Correa (Brazil) Project: "The influence of upper ocean mesoscale variability on biogeochemical fluxes" (Spring 2013)
 - O. Diankha (Senegal) Project:" Tracing sewage pollution near- and off-shore waters of Bermuda using linear alkylbenzenes (LABs) (A. Peters, co-advisor) (Spring 2012)
 - O. Shatova (Ukraine) Project: “Contribution of zooplankton fecal pellets to particle flux in the mesopelagic Sargasso Sea” (Spring 2011)
 - H. Smeti (Tunisia) Project: “Physical forcing, zooplankton dynamics and carbon export to the deep ocean in the North Western Sargasso Sea” (co-advisor T. Dickey, UCSB) (Spring 2009)

Undergraduate:

- Lecturer and research project research advisor for undergraduates in the MBL Ecosystems Center Semester in Environmental Science (SES) program. Project advisor/co-advisor:
 - O. Shao (Univ. Chicago) Project: How does the chemistry of pharmaceuticals and personal care products (PPCPs) affect bioaccumulation in the estuarine blue mussel *Mytilus edulis*? (Fall 2019)
 - A. Rec (Gettysburg College). Project: Physiological status in cold-stunned juvenile sea turtles: Insight from stable isotope analysis in muscle, skin and blood.” (Fall 2018)
 - R. Mueller-Schrader (Lawrence University). Project: “Understanding sea turtle foraging through stable isotopes of their prey items” (Fall 2018)

- H. Salazar (Connecticut College). Project: "Plastic Beach (The arrival): Spatial heterogeneity of microplastic pollution on Cape Cod beaches and the impacts of different hydrographic sources" (Fall 2018)
 - C. Beidelman (Northwestern University) Project: "Plastic Beach (The Spread): Microplastic distribution and composition across the tidal range of Cape Cod beaches" (Fall 2018)
 - C. McGuire (Rhodes College) Project: "Plastic Marsh (The Tenacity): A look back at the varying anthropogenic impacts of estuary systems through microplastic pollution and stable isotopes" (Fall 2018)
 - E. DeFilippis (The New School). Project: "Fatty acid and stable isotope profiles in juvenile sea turtles in Cape Cod in relation to their diet" (Fall 2017)
 - M. Daugherty (Northwestern) Project: "Adsorption of organic pollutants to microplastics: The effects of dissolved organic matter" (Fall 2016)
 - T. Fehsenfeld (Colorado College). Project: "The Effect of Soil Type on Migration of Pharmaceuticals and Personal Care Products (PPCPs) Through Cape Cod Soils" (Fall 2015)
 - Y. Zhang (Brown). Project: " Occurrence of Pharmaceuticals and Personal Care Products in wastewater and groundwater on Cape Cod" (Fall 2014)
 - N. Elmekki (Princeton) co-advisor J. Huber. Project "Distribution of the antibiotic triclosan in the environment and its influence on bacterial resistance" (Fall 2014)
 - S. Erskine (Wheaton). Project: " Linear Alkylbenzene Sulfonate Degradation in Aerobic versus Anaerobic Sediments" (Fall 2013)
 - N. Buchs (Syracuse). Project: " Effects of Precipitation pH on epicuticular leaf waxes in grass" (Fall 2013)
 - A. Brooks (Bates). Project: " Using polyunsaturated fatty acid biomarkers to trace changes in diet of the ribbed mussel, *Guekensia demissa*, in Great Sippewissett Marsh" (Fall 2012)
 - T. Cunningham (Bates). Project: " Characterizing the molecular composition of epicuticular waxes of vegetation and in surface sediments in Great Sippewissett marsh, Falmouth MA" (Fall 2012)
 - Research Advisor and mentor: NSF REU program, University of Chicago Metcalf Fellow Program, BIOS Cawthorn program, Woods Hole Partnership Education Program (PEP), MA Blue Economy Internship Program (BEIP)(ongoing)
- Each year the Oceanic Flux Program funds and hosts undergraduates to participate in short research projects and also funds talented high-school students to participate as student research assistants (part-time academic year and full-time summer). I participate as a mentor in the PEP is a summer program sponsored by the Woods Hole Science institutions to promote science diversity. Summer undergraduates advised and their research projects:
- J. Hilditch (Cambridge Univ., BIOS Cawthorn intern) Project: "Analysis of upper ocean mesoscale physical variability and hurricane influence on particle export to the deep ocean" (Summer 2019) (co-advisors R. Johnson and F. DePacheco, BIOS)
 - B. Hopkins (College of Wooster, OFP REU) Project: "Seasonality in stable carbon isotopic composition of deep ocean suspended particle profiles" (Summer 2019)
 - A. Devitt (Univ. Chicago, MBL Metcalf Scholar) Project: "Hurricane forcing of the deep ocean particle flux" (Summer 2019)

- M. Karagiannis (Univ. Chicago, MBL Metcalf Scholar) Project: "Stable carbon isotopic composition of deep ocean suspended particles for assessment of lipid biosynthesis by piezophilic microbes" (Summer 2018)
 - E. DeFilippis (The New School, OFP REU) Project: "Seasonality in lipid biomarker composition of suspended and sinking particles in the Sargasso Sea" (Summer 2018)
 - J. Holo (Univ. Chicago, MBL Metcalf Scholar) Project: "Understanding particle cycling in the deep Sargasso Sea through the use of lipid biomarkers" (Summer 2017)
 - F. Yeboah (Univ. Md. Eastern Shore, PEP) Project: "Assessing juvenile sea turtle habitat and nutritional history in Cape Cod waters using stable isotopes" (Summer 2017)
 - L. Shaw (Univ. Chicago, OFP REU) Project: "Using lipid biomarkers to understand deep ocean organic particle flux" (Summer 2016)
 - E. Manness (Univ. Tampa, OFP REU) Project: "Lipid biomarker composition of suspended particulate material in the Sargasso Sea" (Summer 2016)
 - L. Shaw (Univ. Chicago, MBL Metcalf Scholar) Project: "Phosphorus Phase Associations in the Northern Sargasso Sea" (Summer 2015)
 - E. Manness (Univ. Tampa, OFP REU) Project: "Seasonality and inter-annual variation in pteropod flux in the Sargasso Sea" (Summer 2015)
 - Y. Zhang (Brown). Project: " Occurrence of Pharmaceuticals and Personal Care Products in wastewater and groundwater on Cape Cod" (Brown Univ. senior thesis project Spring 2015)
 - S. Alex (Univ. Chicago, MBL Metcalf Scholar) Project: "Phosphorus partitioning and phase associations in sinking marine particulates from the deep Sargasso Sea" (Summer 2014)
 - T. Cunningham (Bates College, SES AVD Summer Scholar) Project: "Climate imprint on carbon isotopic signatures of leaf wax in arctic vegetation: Groundtruthing paleoclimate proxies." (Summer 2013)
 - A. Aarons (Mt. Holyoke) Project: "Changes in lipid biomarker composition of sinking particles during the passage of three distinct eddy types through the deep Sargasso Sea" (Summer 2012 and Mt. Holyoke senior thesis project Fall 2012)
 - R. Smith (Cambridge Univ., co-advisor: H. Elderfield). Project: "Investigating the relationship between variability of sea surface temperature and foraminiferal Mg/Ca ratios" (Summer 2012 BIOS Cawthorn Fellowship)
 - B. Siranosian (Brown) Project: " Molecular composition of lipid biomarkers in deep ocean fluxes off Bermuda in relationship to mesoscale eddy passage" (Summer 2011)
 - Rachel Franzblau (U. Mich) Project: "Molecular and isotopic composition of leaf waxes in Holocene lake sediments in French Guiana" (Summer 2010)
 - Jean Fang (MIT) Project: "Influences of physical forcing and seasonality on biological components of deep ocean particle flux in the Sargasso Sea" (Summer 2009)
 - Mentor, ASLO Multicultural Program (ASLOMP), AGU/ASLO Ocean Sciences Meetings
- High school:*
- Informal advising of over 25 high school student lab assistants working in the lab (ongoing)
 - Woods Hole Science and Technology (WHSTEP) liason between Scientific Institutions, Industry and High Schools/ Technical Schools. Participant in WHSTEP activities
 - Contributor to education products targeted to teen audiences (see below)

Outreach:

- public lectures (see below)
- Woods Hole summer Science Stroll

FIELD ACTIVITIES (2014-2021)

- OFP mooring cruises on R/V Atlantic Explorer (Chief Scientist, 1996-present) Since 2014: Apr, Oct 2014; Apr, Nov 2015; Apr, Oct 2016; Apr, Aug 2017; Jan, Jun, Oct 2018; Apr, Oct 2019, Aug 2020, Apr 2021. Recent cruises have included research collaborators from BIOS, Old Dominion Univ., UC Davis, U. Md., UNC Wilmington, and Univ. Chicago, and undergraduate and graduate students from BIOS, Princeton, Eckerd, Univ Penn., Memorial University, Rensselaer, U. Puerto Rico, Southampton, Univ. Chicago, Univ Victoria, Ga Military Academy. The 2009-2013 cruises provide training of CoE scholars as part of their Moored Observatories module.
- Chief Scientist Training cruise, Course coordinator and Instructor (Barbados-Bermuda, May/June 2014)

PRESENTATIONS (2014-2021) *public lecture

- *Conte, M. H. and R. Pedrosa Pamies (2020) A Changing Climate, A Changing Ocean. Ecosystems Center and Semester in Environmental Science Lunch and Learn webinar (Nov 2020)

<https://mbl.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=b5337ed9-e8b0-4481-bf5b-ac7000f8534b>

- *Conte, M. H. (2020) A Changing Climate, A Changing Ocean. Univ Chicago Alumini Association webinar (July 2020)

Conte, M. H., R. Hopkins, M. Karagiannis, J.C Weber, R Pedrosa Pamies (2020) Organic carbon production and remineralization in the oligotrophic water column assessed using compound-specific stable isotopic composition of particulate fatty acids. AGU/ASLO Ocean Sciences Meeting, Abst OB52B-07 (San Diego, CA Feb 2020)

Hilditch J., M. H Conte, R.J Johnson, F. Pacheco R. Pedrosa Pamies, Investigation of eddy - storm induced near inertial wave motions in the northern Sargasso Sea. AGU/ASLO Ocean Sciences Meeting, Abst PI44C-2583 (San Diego, CA Feb 2020)

Pedrosa Pamies, R. M. H. Conte, J. C. Weber, R. J. Johnson (2020) Hurricanes enhance the ocean's biological pump. AGU/ASLO Ocean Sciences Meeting, Abst OC34A-1459 (San Diego, CA Feb 2020)

Conte, M. H., A. M. Carter, D. A. Koweek, J. C. Weber (2019) Particle Flux Processing in the deep ocean: Insights from the Oceanica Flux Program time series in the oligotrophic North Atlantic. Goldschmidt Conference Abst (Barcelona, Spain, Aug 2019)

Pedrosa-Pamies, R. M. H. Conte, J.C. Weber, R. Johnson (2019) Impact of major hurricanes on the deep ocean. Goldschmidt Conference Abst (Barcelona, Spain, Aug 2019)

- *Conte, M. H. (2019) A Changing Climate, A Changing Ocean. Maria Mitchell Association (Nantucket, MA, July 2019) Public Lecture

Smart, S. M., H. Ren, S.E. Fawcett, R. Schiebel, M. H. Conte, P.A. Rafter, K.K. Ellis, A. Martínez-García, M.A. Weigand, S. Oleynik, A.N.Roychoudhury, G. H. Haug, D.M. Sigman (2018) Decoding Planktic Foraminifera-bound Nitrogen Isotopes: Clues from the Modern Ocean. AGU Fall Mtg. (Washington D.C., Dec 2018)

- Karagiannis, M. M., J. C. Weber, M. H. Conte (2018) Origins of deep sea polyunsaturated fatty acids assessed using compound specific stable isotopes. GSA annual meeting (Indianapolis, IN, Nov 2018)
- Conte, M. H., A. M. Carter, D. A. Koweek, J. C. Weber (2018) Trace elemental scavenging by particle flux processes in the deep ocean interior: Insights from the Oceanic Flux Program time series. Goldschmidt Conference, Abst 2018002331 (Boston, MA Aug 2018)
- Pedrosa Pamies, R., M. H. Conte, J. C. Weber and R. Johnson (2018) Impact of Hurricane Nicole on carbon cycling in the Sargasso Sea water column: Insights from lipid biomarkers in suspended and sinking particles. OCB Summer Workshop (Woods Hole MA, Jun 2018)
- *DeFelippis, E., M. H. Conte, J. C. Weber, R. Pedrosa-Pamies (2018) Lipid and stable isotope profiles in cold-stunned juvenile sea turtles of Cape Cod. Cape Cod Natural History Conference (Hyannis, MA Mar 2018)
- Conte, M. H., J. C. Weber, R. Pedrosa Pamies (2018) The Oceanic Flux Program (OFP) time-series turns 40. AGU/ASLO Ocean Sciences Meeting, Abst IS12A-03 (Portland, OR Feb 2018)
- Pedrosa-Pamies, R., M.H. Conte, J.C. Weber, R.J. Johnson (2018) Impact of Hurricane Nicole on particle cycling in the Sargasso Sea traced using lipid biomarkers. AGU/ASLO Ocean Sciences Meeting, Abst IS12A-06 (Portland, OR Feb 2018)
- Xu, C., P. Lin, K. Schwehr, W. Xing, L. Sun, A. Yard, P. Hatcher, M. H. Conte and P. H. Santschi (2018) Hydroxamate siderophores moieties responsible for scavenging Fe and particle-reactive radionuclides (Th, Pa and Po) are present in marine sinking particles as detected by ESI-FTICRMS. AGU/ASLO Ocean Sciences Meeting, Abst CT21A-05 (Portland, OR Feb 2018)
- Conte M. H., R. Pedrosa Pamies, J. C. Weber (2017) Organic matter diagenesis within the water column and surface sediments of the northern Sargasso Sea revealed by lipid biomarkers. AGU Fall Meeting, Abst 280733 (New Orleans, LA Dec 2017)
- Pedrosa Pamies, R., M. H. Conte and J. C. Weber (2017) Insights into particle cycling in the Sargasso Sea from lipid biomarkers in suspended particles: Seasonality and physical forcing. AGU Fall Meeting, Abst 279047 (New Orleans, LA Dec 2017)
- *Conte, M. H. (2017) Unlocking the Bermuda Triangle: What Sargasso Sea time-series are revealing about our ocean planet. Univ. Chicago Alumni Club (Univ. Chicago, Nov 2017)
- Pedrosa Pamies, R., M. H. Conte and J. C. Weber (2017) Particle cycling in the Sargasso Sea water column revealed by lipid biomarkers in suspended particles: Seasonality and physical forcing (OCB Meeting, Woods Hole Jul 2017; Gordon Conference Aug 2017)
- Conte, M. H. (2016) Particle flux in the ocean's interior: Insights from the Oceanic Flux Program (OFP) time-series (U Mass Dartmouth, Dec 2016)
- *Conte, M. H. (2016) What sinks in the Bermuda Triangle, and why it's important. Public Lecture. Newcomers Group (Falmouth MA Jun 2016)
- Conte, M. H., A. M. Carter, D. Koweek, J. C. Weber. (2016) A decadal record of elemental composition of particle flux in the deep Sargasso Sea. AGU/ASLO Ocean Sciences Meeting, Abst. CT21A-04 (New Orleans LA, Feb 2016)

- Carter, A. M., M. H. Conte, J. C. Weber and L. Shaw (2016) Phosphorus phase associations in the deep ocean particle flux in the Sargasso Sea. AGU/ASLO Ocean Sciences Meeting, Abst. CT24A-0157 (New Orleans LA, Feb 2016)
- Smart, S., H. A. Ren, S. E. Fawcett, M. H. Conte, P. A. Rafter, K. K. Ellis, M. A. Weigand, D. M. Sigman (2016) Ground-truthing the foraminifera-bound nitrogen isotope paleoproxy in the modern Sargasso Sea AGU/ASLO Ocean Sciences Meeting, Abst. PC51A-02 (New Orleans LA, Feb 2016)
- Gonsior, M., S. Timko, M. H. Conte and P. Schmitt-Kopplin (2016) Time-resolved and depth-dependent photodegradation of marine dissolved organic matter analyzed by semi-continuous EEM fluorescence monitoring. AGU/ASLO Ocean Sciences Meeting, Abst. CT52A-06 (New Orleans LA, Feb 2016)
- Salmon, K., P. Anand, P. F. Sexton, M. H. Conte and J. Bijma (2014) Controls on shell thickness in modern planktonic foraminifera. AGU Fall Meeting, Abstr. B41B-0012. (San Francisco CA Dec 2014)
- Conte, M. H. and J. C. Weber (2014) The Oceanic Flux Program (OFP) time-series of particle flux in the deep Sargasso Sea: linkages with upper ocean physics and biology. Ocean Carbon and Biogeochemistry workshop (Woods Hole MA, Jul 2014)
- Luisa-Leal, M., M. H. Conte, D. Koweek, S. Huang, J. C. Weber (2014) Elemental composition of the particle flux in the deep Sargasso Sea: Seasonality and changes with depth, AGU/ASLO Ocean Sciences Meeting (Honolulu HI, Feb 2014)
- Conte, M. H. , J. C. Weber, D. Koweek and T. D. Dickey (2014) Episodic advection of detrital reef sediments to the deep Sargasso Sea: A tale of two hurricanes. AGU/ASLO Ocean Sciences Meeting (Honolulu HI, Feb 2014)

PUBLICATIONS

- (61) Cael, B. B., K. Bisson, M. H. Conte, M.T. Duret, C. L. Follett, S. A. Henson, M.C. Honda, M. H. Iversen, D. M. Karl, R. S. Lampitt, C. B. Mouw, F. Muller-Karger, C. A. Pebody, K.L. Smith Jr., D. Talmy (2021) Open ocean particle flux variability from surface to seafloor *Geophys. Res. Letts.* DOI: 10.1029/2021GL092895
- (60) Xu C., P. Lin, L. Sun, H. Chen, W.Xing, M. Kamalanathan, P. G. Hatcher, M. H. Conte, A. Quigg, P. H. Santschi (2020) Molecular nature of marine particulate organic iron-carrying moieties revealed by electrospray ionization Fourier-transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS). *Frontiers in Earth Sci.* doi:10.3389/feart.2020.00266
- (59) Pedrosa-Pamies, R., M.H. Conte, J.C. Weber, R. Johnson (2019) Hurricanes enhance labile carbon export to the deep ocean. *Geophys. Res. Letts.* /doi.org/10.1029/2019GL083719
- (58) Conte, M. H. (2019) Oceanic Particle Flux. In Cochran, J. Kirk; Bokuniewicz, J. Henry; Yager, L. Patricia (eds.) *Encyclopedia of Ocean Sciences, 3rd Edition*, vol.[4], pp. 192-200. Oxford: Elsevier.
- (57) Zheng, Y., P. Heng, M. H. Conte, R. S. Vachula, Y. Huang. (2019) Comprehensive chemotaxonomic profiling and novel paleotemperature indices based on alkenones and alkenoates: potential for disentangling mixed species input. *Org. Geochem.* 128, 26-41.
- (56) Conte, M. H., A. M. Carter, D. A. Koweek, S. Huang, J. C. Weber. (2019) The elemental composition of the deep particle flux in the Sargasso Sea. *Chem. Geol.*, 511, 279-
<https://doi.org/10.1016/j.chemgeo.2018.11.001>

- (55) Pedrosa Pamies, R., M. H. Conte, J. C. Weber and R. Johnson. (2018) Particle cycling in the Sargasso Sea water column: insights from lipid biomarkers in suspended particles. *Progr. Oceanogr.* doi: 10.1016/j.pocean.2018.08.005.
- (54) Smart, S. M., H. Ren, S. E. Fawcett, R. Schiebel, M. H. Conte, P. A. Rafter, K. K. Ellis, M. A. Weig, D. M. Sigman and G. H. Haug. (2018) Ground-truthing the planktic foraminifer-bound nitrogen isotope paleoproxy in the Sargasso Sea. *Geochem. Cosmochim. Acta.* 235, 463-482. <https://doi.org/10.1016/j.gca.2018.05.023>
- (53) Salmon, K.H., P. Anand, P.F. Sexton, M. Conte. (2016) Calcification and growth processes in planktonic foraminifera complicate the use of B/Ca and U/Ca as carbonate chemistry proxies. *Earth Planetary Sci. Letts.* 449, 372-381.
- (52) Timko. S. A., Maydanov A., Pittelli S. L, Conte M. H., Cooper W. J., Koch B. P, Schmitt-Kopplin P., Gonsior M. (2015) Depth-dependent Photodegradation of Marine Dissolved Organic Matter. *Frontiers Mar. Sci.* DOI=10.3389/fmars.2015.00066
- (51) Salmon, K.H., P. Anand, P.F. Sexton, M. Conte. (2015) Upper ocean mixing controls the seasonality of planktonic foraminifer fluxes and associated strength of the carbonate pump in the oligotrophic North Atlantic. *Biogeosciences* 12, 223–235.
- (50) Babila, T.L., Rosenthal, Y. , M. H. Conte. (2014) Evaluation of the biogeochemical controls on B/Ca of *Globigerinoides ruber* white from the Oceanic Flux Program, Bermuda. *Earth Planetary Sci. Letts.* 404, 67-78.
- (49) Gonsior M., W. J. Cooper, M. H. Conte, N. Hertkorn, D. Bastviken and P. Schmitt-Kopplin (2014) Photochemical production of polyols arising from significant photo-transformation of dissolved organic matter in the oligotrophic surface ocean. *Mar. Chem.* 163,10-18.
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