

Dr. Tim M Conway BA MSci PhD*Assistant Professor (Chemical Oceanography)*

College of Marine Science, University of South Florida

tmconway@usf.edu | <http://www.marine.usf.edu/faculty/tim-conway> | +1 (727) 553-3408

Education**BA and MSci Natural (Geological) Sciences** – 1st Class Honours (October 2002 - June 2006).
Cambridge University, Department of Earth Sciences & St Catharine's College.**PhD Earth Sciences (NERC Studentship)** (October 2006 - August 2010).
Cambridge University, Department of Earth Sciences & British Antarctic Survey, UK.
Thesis Title: *"Solubility and bioavailability of iron from dust in Antarctic ice cores"*.
Advisors: **Profs Eric Wolff and Harry Elderfield, Dr Regine Röthlisberger.****Research Experience and Employment***31 peer-reviewed articles (6 in Nature Journals, 2 in PNAS, 1 in Geology), and 6 in review.**Assistant Professor (January 2017 to present)***College of Marine Science, University of South Florida**

Leading trace metal isotope biogeochemistry group at CMS and co-PI of USF Tampa Bay ICPMS facility (Element XR and Neptune Plus). Teaching and supervising MS, PhD and undergraduate students.

*NWO-supported Visiting Scientist (October 2017)***Royal Netherlands Institute for Sea Research (NIOZ), Netherlands (with Dr Rob Middag).***Postdoctoral Researcher (July 2014 – December 2016)***Department of Earth Sciences, ETH Zürich, Switzerland (with Prof. Derek Vance).**Marine Isotope Geochemistry. Investigating dissolved $\delta^{56}\text{Fe}$, $\delta^{66}\text{Zn}$ and $\delta^{114}\text{Cd}$ variability in modern seawater in the Antarctic-Equatorial Pacific (Japanese GP19 Section). Co-Supervision of a PhD student.*Postdoctoral Associate (October 2010 – June 2014)***Department of Earth & Ocean Sciences, University of South Carolina, USA (with Dr Seth John).**Marine Trace Metal Geochemistry. Method development and measurement of $\delta^{56}\text{Fe}$, $\delta^{66}\text{Zn}$ and $\delta^{114}\text{Cd}$ in various materials, Atlantic GEOTRACES Transects (GA03 and GA10).*Graduate Intern (June – August 2008)***Bermuda Institute of Ocean Sciences, Bermuda (with Dr Peter Sedwick).**

Cruise experience and use of flow-injection systems for Fe in seawater analysis.

*Laboratory Analyst (Summer 2002 and Dec/Jan 2002 & 2003)***Rothamsted Research & Royal Agricultural University, UK.**

Soil chemical analyses, data collection and processing supporting eight-year DEFRA funded project.

Teaching Experience**2017 - Present. Academic Courses, College of Marine Science, University of South Florida.**

OCE 6050 CMS: Grad. Core Chemical Oceanography (Instructor 2017-Present; Lead, Fall 2018, 2020).

OCE 6934 CMS: Grad. Analytical Geochemistry (Lead, Spring 2020).

OCE 6934 CMS: Grad. Geochemistry (Lead, Fall 2019).

OCE 6934 CMS: Grad. New Applications of Stable Isotopes in Ocean Chemistry (Lead, Spring 2018).

OCE 6934 CMS: Grad. Principles and Applications of ICPMS (Guest 2018).

IDH 3350 Honors College: Undergrad. Natural Sciences: Marine Estuaries (Instructor, Fall 2019).

ANT 4183C/ANG 6100 Anthropology: Archaeological Science (Guest 2017-2019).

GLY 6825C Geosciences: Analytical Techniques in Geology (Guest 2017).

2011 - 2014. **Department of Earth and Ocean Sciences, University of South Carolina.**
MS 210 Undergraduate ‘Oceans and Man’ (Guest - Ancient Oceans and Climate Change).

Grant Funding (Awards to USF-CMS as PI total \$1.25m)

Active Awards

- PI on NSF Award ‘*Collaborative Research: US GEOTRACES GP17-OCE: Dissolved concentrations, isotopes and colloids of the bioactive trace metals*’ (Total: \$1,177,457; USF \$351,982 5/01/21-4/31/24).
- Lead PI on NSF Award OCE1829643 ‘*Collaborative Research: ‘Determining the isotopic signature of iron released via ligand-mediated dissolution of atmospheric dust in the surface ocean’*’. (Total: \$746,180; USF \$374,080; 9/01/18-8/31/21).
- Lead PI on NSF Award OCE1737136 ‘*Collaborative Research: US GEOTRACES PMT: Trace-metal concentrations and stable isotopes in the North Pacific*’ (Total: \$852,992; USF \$412,703; 8/15/17-7/31/21). Includes NSF REU Supplement OCE173716-1 for College of Marine Science’s Minority Serving Institutions Summer REU program (USF \$12,000; May-July 2019).
- Overseas collaborator on NERC Award ‘*ATLANTIS: AnTArctic subglacial LAke CECs biogeochemistry: CoNtrols on ecosysTem sustainability and nutrIent transformationS*’ with PI Prof. Jemma Wadham. (Total: £574,000; USF: N/A; 02/01/23-02/01/26).
- Overseas collaborator on NWO Grant 016.Vidi.189.138 ‘*Metalgate, Trace metals and the Arctic-Atlantic gateway in a changing world, local processes and global connections*’, with PI Dr. Rob Middag at NIOZ. (Total: €800,000; USF: N/A; 10/01/19-10/01/24).
- Co PI & Ph.D. Supervisor NWO Grant ALWPP.2016.020 ‘*Iron limitation and viral lysis, phytoplankton caught between a rock and a hard place*’, with PI Dr. Rob Middag at NIOZ (Total: €598,402; USF: N/A; 04/09/17-03/09/21).

Prior Awards

- PI on FIO Subsidised Shiptime Award: ‘*Training and testing of USF’s new trace metal CTD rosette, and investigating micronutrient cycling in the deep Eastern Gulf of Mexico*’ (5 ship days R/V Weatherbird II, \$50,000 value; 7/1/19-6/30/20).
- PI on USF Research New Researcher proposal ‘*Investigating the influence of the Gulf Stream System on micronutrient cycling in the North Atlantic Ocean*’ (USF \$9,975; 5/1/17-4/30/19).
- Co-PI on USF Research Equipment and Improvement Award with PI Dr. Kristen Buck ‘*Acquisition of a trace metal clean rosette sampling system*’ (USF \$54,351; May 2018).
- Co-I on Antarctic Circumnavigation Expedition Grant “*Tracing the iron cycle in Southern Ocean waters*” with PI Prof. Michael Ellwood at Australian National University (Total: €260,000; USF: N/A; March 2016).
- NWO Visiting Scientist Travel Grant, NIOZ (€3,750; USF: N/A; 9/4/17-10/16/18).
- Invited travel support to attend US GEOTRACES Pacific Planning Workshops at La Jolla (October 2016), Old Dominion University, Norfolk (March 2018), Virtual (May 2020).
- Invited travel grant to attend GEOTRACES Workshop August 2016 (\$2000, accommodation & food).

Other Honors, Awards and Prizes

- Thomas Hobbs (1631) prize for academic performance in Geological Sciences at M.Sci. (St Catharine’s College, University of Cambridge, 2006).
- AGU Editors’ Citation for Excellence in Refereeing (2015) for *Global Biogeochemical Cycles*.
- USF Award for Grant Submission over \$250,000 (May 2017, May 2018).

Student Supervision and Mentoring

2017 - Present. **College of Marine Science, University of South Florida.**

- Main Professor – PhD student, USF CMS, Hannah Hunt (Fall 2020-Present).
- Main Professor – MS student, USF CMS, Claire Onak (Fall 2020-Present).
- Main Professor – MS student, USF CMS, Zach Bunnell (Fall 2019-Present).
- Main Professor – MS student, USF CMS, Brent Summers (2017-2020).
- Co-Supervisor – PhD student, NIOZ, Netherlands, Hung-An Tian (2017-Present).
- Co-Supervisor – PhD student, ETH Zürich, Switzerland, Matthias Sieber (2015-2019).
- Main Professor – NSF-funded Pre-eminence REU student, USF CMS, Tione Grant (Summer 2019)

- Main Professor – Undergraduate Summer Intern, USF CMS, Ryan Schlaiss (Summer 2017, 2018).
- Committee member – PhD student, USF Geosciences, Alex Maruszczak (2019-Present).
- Committee member – PhD student, USF CMS, Ellie Hudson-Heck (2019-Present).
- Committee member – PhD student, USF CMS, Shannon Burns (2019-Present).
- Committee member – PhD Student, USF CMS, Imogen Browne (2019-Present).
- Committee member – PhD student, USF Geosciences, Sammy Tavaréz (2017-Present)
- Committee member – PhD student, USF CMS, Kara Vadman (2019-2020).
- Committee member – PhD student, USF CMS, Travis Mellett (2018-2020).
- Committee member – PhD student, USF CMS, Cristina Subt (2017).
- External Examiner – PhD student, Australian National University, Aus. (Moneesha Samanta, 2017).
- External Examiner – PhD student, University of Otago, NZ. (Ejin George, 2017).
- Committee member – MS student, USF CMS, Gabriel Browning (2018-Present).
- Committee member – MS student, USF CMS, Catherine Prunella (2019-2020).
- Committee member – MS student, USF CMS, Adrienne Hollister (2018-2019).
- Mentored 3 graduate students at Goldschmidt Meetings (Paris, 2017; Boston, 2018).
- Mentored 1 REU undergraduate student at ASLO Meeting, Hawaii (2017).
- Student presentation judge (USF CMS Graduate Student Symposium 2018; 2020).

2015 - 2016. Institute for Geochemistry and Petrology, Department of Earth Sciences, ETH Zürich.

- Co-Supervisor for PhD student (Matthias Sieber; 2015-2016).
- Internal Examiner for Proposal Defence of Matthias Sieber (29th Jan 2016).
- Mentored 2 students at Goldschmidt Meeting, Yokohama (2016).

2011 - 2014. Department of Earth and Ocean Sciences, University of South Carolina.

- Mentored a MS student, two PhD students and several undergraduate students.

Research Staff and Visitor Supervision and Mentoring

2019 - Present. College of Marine Science, University of South Florida.

- Postdoctoral Research Fellow, USF CMS, Dr. Eniko Toth (November 2020-Present)
- Postdoctoral Research Fellow USF CMS, Dr Matthias Sieber (July 2019-Present).
- Laboratory Technician USF CMS, Ryan Schlaiss (2019), Brent Summers (2020).
- Hosted Visiting Students and Postdocs – Minako Kurisu (PhD), Insa Rapp (PhD), Janelle Steffen (PhD), Xiaopeng Bian (PhD), Shun-Chung Yang (Postdoc), Jon Hawkings (Postdoc) (2018-2019).

Academic Service

- **Ad Hoc Journal Reviewer** (73): *Analytica Chimica Acta* (1), *Analytical Letters* (3), *Atmosphere* (1), *Atmospheric Environment* (1), *Biogeosciences* (1), *Chemical Geology* (1), *Chemosphere* (1), *Earth & Planetary Science Letters* (11), *Ecology & Hydrobiology* (2), *Environmental Pollution* (2), *Frontiers in Marine Science* (1), *Journal of Geophysical Research Oceans* (2), *Geochimica et Cosmochimica Acta* (11), *Geology* (3), *Geophysical Research Letters* (2), *Global Biogeochemical Cycles* (8), *International Journal of Mass Spectrometry* (1), *Journal Analytical Atomic Spectrometry* (1), *Limnology & Oceanography* (1), *Marine Chemistry* (6), *Nature* (1), *Nature Communications* (2), *Nature Geoscience* (2), *PNAS* (1), *Precambrian Research* (1), *Science* (1), *Science of the Total Environment* (2), *Talanta* (1), *American Journal of Undergraduate Research* (1).
- **Conference Session Convenor** (7): Goldschmidt 2014 Sacramento (16g), Goldschmidt 2016 Yokohama: (12d), Goldschmidt 2017 Paris (10i), Ocean Sciences 2018 Portland (BN11A), Goldschmidt 2018 Boston: (07i); Goldschmidt 2019 Barcelona (10j); Goldschmidt Virtual Meeting Hawaii 2020 (14m).
- **Journal Editor**: PLOS One Academic Editor (2018-present); Frontiers (Marine Science, Earth Science, Chemistry) Editorial Board Member / Review Editor (2021-Present); Chemical Geology Lead Guest Editor for “Cycles of trace elements and isotopes in the ocean – GEOTRACES and beyond...”;
- **Ad Hoc Proposal Reviewer on behalf of**: *Actions Thématiques Stratégiques Federal University of Toulouse, France* (2015), *German Research Foundation* (2015, 2018), *European Research Council Starting Grants* (2016), *US National Science Foundation* (2016-2020), *Austrian Science Fund* (2017, 2018), *UK NERC* (2018), *Israel Science Foundation* (2019, 2020).
- **Panel Reviewer on behalf of NSF Geosciences Directorate** (2019).

- **USF Committee Memberships:** CMS Student and Faculty Rights and Responsibilities (2017), CMS Chemical Oceanography Search (2018-19), CMS Student Admissions (2019), CMS Faculty Annual Review (2019-21; Chair 2021), CMS Research Staff Career Ladder (2019-20), CMS Integrated Marine Science Exam (2019-20), CMS Space (2019-Present), CMS Analytical Biogeochemistry Working Group (2019-Present), CMS Deans Advisory Committee (2020-Present), CMS Unlearning Racism in Geoscience Pod (2021).

Analytical Skills and Field Experience

- Extensive experience with HR ICP-MS (ten years with Element XR and Neptune Plus Multi-collector) for analysis of dissolved elemental concentrations (Cu, Cd, Co, Fe, Ni, Mn, Pb, Zn), stable isotope ratios ($\delta^{56}\text{Fe}$, $\delta^{60}\text{Ni}$, $\delta^{66}\text{Zn}$, $\delta^{114}\text{Cd}$) and radiogenic isotope ratios ($^{87}\text{Sr}/^{86}\text{Sr}$) in natural materials (aerosol dust, biological material, rain, rocks, forensic samples and seawater).
- Elemental Scientific SeaFAST, microFAST and DX-2/4 autosamplers, Apex-Q and Apex- Ω desolvators.
- Clean lab design/construction/running/management and operation in 8 different institutions.
- 16 Weeks field experience as part of undergraduate degree at the University of Cambridge, in a range of locations and geological settings including 8 weeks of independent geological mapping.
- TA-ed 1st and 2nd Year Undergraduate lab and field courses for the University of Cambridge in Scotland and South West England (geological mapping, sediments, palaeontology, structural geology, oil rocks).
- Research cruise experience: R/V Atlantic Explorer (June 2008), R/V John Strickland (March 2017), R/V Angari (Chief Scientist; March 2019).

Peer-Reviewed Journal Publications (*Google Scholar 02/16/21: 1657 citations, h-index 19, i10-index 24*)

*denotes supervised Graduate Student, #denotes supervised postdoc.

- König, D., **Conway, T. M.**, Ellwood, M. J., Homoky, W. B., and Tagliabue, A. (in review). Constraints on the cycling of iron isotopes from a global ocean model. *Global Biogeochem. Cycles*.
 - Horner, T. J., Little, S. H., **Conway, T. M.**, Farmer, J. R., Hertzberg, J. E., Lough, A. J. M., McKay, J., Tessin, A., Galer, S. J. G., Jaccard, S. L., Lacan, F., Paytan, A., Wuttig, K., and GEOTRACES-PAGES Biological Productivity Working Group Members. (in review). Bioactive trace metals and their isotopes as paleoproductivity proxies: An assessment using GEOTRACES-era data. *Global Biogeochem. Cycles*.
 - de Souza, G. F., Vance, D., #Sieber, M., **Conway, T. M.**, & Little, S. H. (in review). Re-assessing the influence of water-column sulphide on the marine cadmium cycle. *Geochim. Cosmochim. Acta*.
 - Steffen, J. M., *Summers, B. A., **Conway, T. M.**, Thyng, K. M., Sherrell, R. M., German, C. R. & Fitzsimmons, J. N. (in revision). Short residence times for hydrothermally-sourced dissolved iron in the deep ocean. *Nature Geoscience*.
 - Krisch, S. Hopwood, M. J., Schaffer, J., Al-Hashem, A., Höfer, J., van de Loeff, R., **Conway, T. M.**, *Summers, B. A., Lodeiro, P. Ardiningsih, I., Steffens, T. & Achterberg, E. P. (in revision). The effect of ice cavities on ice sheet nutrient export; a case study at Nioghalvfjerdsbrae, the 79° North Glacier. *Nature Comms*.
 - *Sieber, M., **Conway, T. M.**, de Souza, G. F., Hassler, C.S., Ellwood, M.J. & Vance, D. (in revision). Isotopic fingerprinting of biogeochemical processes and iron sources in the iron-limited surface Southern Ocean. *Earth Planet. Sci. Lett*.
31. Homoky, W. B., **Conway, T. M.**, John, S. G., König, D., Deng, F., Tagliabue, A. & Mills, R. (2021). Iron colloids dominate sedimentary supply to the ocean interior. *Proc. Natl Acad. Sci. U. S. A.* In Press.
 30. Janssen, D. J., *Sieber, M., Ellwood, M. J., **Conway, T. M.**, Barrett, P. M., Chen, X., de Souza, G. F., Hassler, C. S. & Jaccard, S. L. (2020). Trace metal and nutrient dynamics across broad geochemical gradients in the Indian and Pacific Sectors of the Southern Ocean. *Mar. Chem.* 221, 103773.
 29. *Sieber, M., **Conway, T. M.**, de Souza, G. F., Hassler, C., Ellwood, M. & Vance, D. (2020). Cycling of Zn and its isotopes across multiple zones of the Southern Ocean: Insights from the Antarctic Circumnavigation Expedition. *Geochim. Cosmochim. Acta.* 268, 310-324.
 28. Jung, J., Rosenheim, B. E., **Conway, T. M.**, Kyu-Cheul, Y., Il Lee, J., Il Yoon, H., Hwang, C. Y., Yang, K., Subt, C. & Kim, J. (2019). Microbial Fe(III) reduction as a potential iron source from Holocene sediments beneath Larsen Ice Shelf. *Nature Comms.* 10, 5786.

27. *Sieber, M., **Conway, T. M.**, de Souza, G. F., Hassler, C., Ellwood, M. & Vance, D. (2019). High-resolution Cd isotope systematics in multiple zones of the Southern Ocean from the Antarctic Circumnavigation Expedition. *Earth Planet. Sci. Lett.* 527, 115799.
26. **Conway, T. M.**, Hamilton, D. S., Shelley, R. U., Aguilar-Islas, A. M., Landing, W. M., Mahowald, N. M. & John, S. G. (2019). Tracing and constraining anthropogenic aerosol iron flux to the North Atlantic Ocean using iron isotopes. *Nature Comms.* 10, 2628.
25. *Sieber, M., **Conway, T. M.**, de Souza, G. F., Obata, H., Takano, S., Sohrin, Y. & Vance, D. (2019). Physical and biogeochemical controls on the distribution of dissolved cadmium and its isotopes in the Southwest Pacific Ocean. *Chem. Geol.* 511, 494-509.
24. Hayes, C. T., Anderson, R. F., Cheng, H., **Conway, T. M.**, Edwards, L., Fleisher, M. Q., Huang, K.-F., John, S. G., Landing, W. M., Little, S. H., Lu, Y., Morton, P. L., Moran, B., Robinson, L. F., Shelley, R. U., Shiller, A. M. & Zheng, X. (2018). Oceanic residence times of a spectrum of elements based on Th supply. *Global Biogeochem. Cycles.* 32, 1294-1311.
23. **Conway, T. M.**, Palter, J. B. & de Souza, G. F. (2018). Gulf Stream rings as a source of iron to the North Atlantic subtropical gyre. *Nature Geoscience* 11, 594-598.
22. Schlitzer *et al.* [including **Conway, T. M.**] (2018). The GEOTRACES Intermediate Data Product 2017. *Chem. Geol.* 493. 210-223.
21. Saito, M., Noble, A., Hawco, N., Twining, B. S., Ohnemus, D. C., John, S. G., Lam, P., **Conway, T. M.**, Johnson, R., Moran, D. & McIlvin, M. (2017). The Acceleration of Dissolved Cobalt's Ecological Stoichiometry due to Biological Uptake, Remineralization, and Scavenging in the Atlantic Ocean. *Biogeochem.* 4637-4662.
20. Archer, C., Andersen, M., Cloquet, C., **Conway, T. M.**, Dong, S., Ellwood, M., Moore, R., Nelson, J., Rehkämper, M., Rouxel, O., Samanta, M., Shin, K.-C., Sohrin, Y., Takano, S. & Wasylenki, L. (2017). Inter-calibration of a proposed new primary reference standard AA-ETH Zn for Zn isotopic analysis. *Journal Anal. Atom. Spectrom.* 32. 415-419.
19. Fitzsimmons, J. N., **Conway, T. M.**, Lee, J.-M., Kayser, R., Thyng, K. M., John, S. G. & Boyle, E. A. (2016). Dissolved iron and iron isotopes in the Southeastern Pacific Ocean. *Global Biogeochem. Cycles.* 30 (10). 1372-1395.
18. Homoky, W.B., Weber, T. S., Berelson, W. M., **Conway, T. M.**, Henderson, G. M., van Hulten, M., Jeandel, C., Severmann, S. & Tagliabue, A. (2016). Quantifying trace element and isotope fluxes at the ocean-sediment boundary - a review. *Phil. Trans. Roy. Soc. A.* 374: 20160246.
17. **Conway, T. M.**, Hoffmann, L. J., Breitbarth, E., Strzepek, R. F. & Wolff, E. W. (2016). The growth response of two diatom species to atmospheric dust from the Last Glacial Maximum. *PLOS ONE.* 11(7): e0158553.
16. **Conway, T. M.**, John, S. G. & Lacan, F. (2016). Intercomparison of dissolved iron isotope profiles from reoccupation of three GEOTRACES stations in the Atlantic Ocean. *Mar. Chem.* 183. 50-61.
15. Middag, R., Sefarian, R., **Conway, T. M.**, John, S. G., Bruland, K. W. & de Baar, H. J. W. (2015). GEOTRACES Intercomparison of Dissolved Trace Elements at the Bermuda Atlantic Time Series Station. *Mar. Chem.* 177 (3). 476-479.
14. Mawji, E., *et al.* [including **Conway, T. M.**] (2015). The GEOTRACES Intermediate Data Product 2014. *Mar. Chem.* 177 (1). 1-8.
13. **Conway, T. M.**, Wolff, E.W., Röthlisberger, R., Mulvaney, R. & Elderfield, H. (2015). Constraints on soluble aerosol Fe flux to the Southern Ocean at the Last Glacial Maximum. *Nature Comms.* 6. 7850.
12. **Conway, T. M.** & John, S. G. (2015). The cycling of iron, zinc and cadmium in the North East Pacific Ocean - insights from stable isotopes. *Geochim. Cosmochim. Acta.* 164 (1). 262-283.
11. Revels, B. N., Ohnemus, D. C., Lam, P. J., **Conway, T. M.** & John, S. G. (2015). The isotopic signature and distribution of particulate iron in the North Atlantic Ocean. *D.S.R. II.* 116. 321-331.
10. Fitzsimmons, J. N., Carrasco, G. G., Wu, J., Roshan, S., Hatta, M., Measures C. I., **Conway T. M.**, John, S. G. & Boyle, E. A. (2015). Partitioning of dissolved iron and iron isotopes into soluble and colloidal phases along the U.S. GEOTRACES North Atlantic Transect. *D.S.R. II.* 116. 130-151.
9. **Conway, T. M.** & John, S. G. (2015). Biogeochemical cycling of cadmium isotopes along a high-resolution section through the North Atlantic Ocean. *Geochim. Cosmochim. Acta.* 148 (1). 269-283.
8. **Conway, T. M.** & John, S. G. (2014). The biogeochemical cycling of zinc and zinc isotopes in the North Atlantic Ocean. *Global Biogeochem. Cycles.* 28 (10). 1111-1128.
7. **Conway, T. M.** & John, S. G. (2014). Quantification of dissolved iron sources to the North Atlantic Ocean. *Nature.* 511. 212-215.

6. Janssen, D., **Conway, T. M.**, John, S. G., Christian, J., Kramer, D. L., Pederson, T. F. & Cullen, J. T. (2014). Undocumented water column sink for cadmium in open ocean oxygen deficient zones. *Proc. Natl. Acad. Sci. U. S. A.* 111 (19). 6888-6893.
5. John, S. G. & **Conway, T. M.** (2014). A role for scavenging in the marine biogeochemical cycling of zinc and zinc isotopes. *Earth Planet. Sci. Lett.* 394. 159-167.
4. Homoky, W. B., John, S. G., **Conway T. M.** & Mills, R. A. (2013). Distinct iron isotopic signatures and supply from marine sediment dissolution. *Nature Comms.* 4, 2143.
3. **Conway, T. M.**, Rosenberg, A. D., Adkins, J. F. & John, S. G. (2013). A new method for precise determination of iron, zinc and cadmium stable isotope ratios in seawater by double-spike mass spectrometry. *Anal. Chim. Acta.* 793. 44-52.
2. **Conway, T. M.** & Botting, J. P. (2012). A new Middle Ordovician (Llanvirn) odontopleurid trilobite from the Builth Inlier of Mid-Wales, and a review of the genus *Meadowtownella*. *Geol. Mag.* 149 (3). 397-411.
1. Li, G., Chen, J., Ji, J., Yang, J. & **Conway, T. M.** (2009). Natural Sources of East Asian Dust. *Geology.* 37 (8). 727-730.

Other Publications

- Field, M. P., **Conway, T. M.**, *Summers, B. A., Saetveit, N., and Sakowski, J. C. (2019) Automated Processing of Seawater Samples for Iron Isotope Ratio Determination. Poster Note, Goldschmidt 2019, *Elemental Scientific, Omaha, Nebraska, USA.*
- Contributed data to the *GEOTRACES Intermediate Data Products 2014, 2017, 2021*, and to the *eGEOTRACES Electronic Atlas of GEOTRACES Sections and animated 3D Scenes.*

Graduate Student Theses and Dissertations Supervised

- Summers, B. A. (2020). Investigating the Isotope Signatures of Dissolved Iron in the Southern Atlantic Ocean. *M.S. Thesis.* University of South Florida.
- Sieber, M. (2019). The role of the Southern Ocean in the global biogeochemical cycling of cadmium and zinc and their isotopes. *Ph.D. Thesis.* Diss. No. 25907. ETH Zürich.

Invited Presentations and Seminars (*denotes supervised student, #denotes supervised postdoc)

37. **Conway, T. M.** (upcoming). *Fe isotopes highlight sources of Fe to the ocean interior.* OCB Webinar. (03.23.21).
36. Hawkings, J. R., Sherrell, R., **Conway, T. M.**, Shoenfelt Troein, E., Hendry, K., #Sieber, M., Beaton, A., Torres, R., Daneri, G., Bertrand, S., Kellerman, A., Marshall, M., Pryer, H., Ng, H. C., Rocanova, J., Bu, K., Benning, L. G., Spencer, R. G. M., Wadham, J. (2020). *The influence of glacier cover on iron and manganese cycling in Patagonian fjords.* GSA Annual Meeting 2020 (10.26.20).
35. *Tian, H. A., Middag, R., Reichart, G. J., and **Conway, T. M.** (2020). Biogeochemistry of zinc in the Amundsen Sea, Antarctica. NIOZ OCS Departmental Meeting (09.15.20)
34. **Conway, T. M.** (2020). *Disentangling iron cycling on the West Florida Shelf and in the Gulf Stream.* Faculty Seminar, USF College of Marine Science (08.28.20).
33. John, S. G., **Conway, T. M.**, Weber, T., DeVries, T., Tagliabue, A., Liang, H., and Pasquier, B. (2020). *Metals, models and isotopes: Insights into the biogeochemical cycling of trace nutrients in the ocean.* Keynote, Session 12m, Goldschmidt Virtual Meeting 2020 (06.25.20).
32. **Conway, T. M.** *Current thinking on Fe isotope sources & Fe and Fe isotopes in the Gulf of Mexico and Gulf Stream System.* (2020). MTEL Group Talk, University of Southern California (02.27.20).
31. **Conway, T. M.**, Palter, J. B., and de Souza, G. F. (2019). *The Influence of Mesoscale Eddies on Trace Metal Biogeochemistry: Insights from Iron in Gulf Stream Rings.* IAPSO Symposium, IUGG General Assembly, Montréal (07.09.19).
30. **Conway, T. M.**, *Sieber, M., de Souza, G. F., Ellwood, M. E., and Vance, D. (2019). *Dissolved Fe and Fe isotopes from ACE.* Antarctic Circumnavigation Expedition Meeting 2019, ETH Zürich. (03.27.19).
29. *Sieber, M., **Conway, T. M.**, de Souza, G. F., Hassler, C., Ellwood, M. E. and Vance, D. (2019). *Cd and Zn isotopes from ACE.* Antarctic Circumnavigation Expedition Meeting 2019, ETH Zürich. (03.27.19).
28. **Conway, T. M.** (2019). *Recent developments in our understanding of the iron cycle in the oceans, from an iron isotope perspective.* Dept. Geological Sciences, University of Florida. (01.10.19).
27. **Conway, T. M.** (2018). *Recent developments in our understanding of the iron cycle in the oceans, from an iron isotope perspective.* College of Geosciences, Texas A&M. (11.05.18).

26. **Conway, T. M.** (2017). *New insights into trace metal cycling in the oceans from the GEOTRACES program*. Colloquium, School of Geosciences, USF. (11.05.17).
25. *Sieber, M., **Conway, T. M.**, Takano, S., Sohrin, Y., and Vance, D. (2017). *The role of the Antarctic oceans in controlling the distribution of Cd isotopes at lower latitudes in the South West Pacific*. Plasma Seminar, College of Marine Science, USF. (09.28.17).
24. **Conway, T. M.** (2017). *Gulf Stream Interactions and mesoscale trace element biogeochemistry*. Faculty Seminar, College of Marine Science, USF. (09.01.17).
23. **Conway, T. M.** (2017). *$\delta^{66}\text{Zn}$ and $\delta^{114}\text{Cd}$ as Paleoproductivity Proxies: Where do They fit on the 'Elderfield' Proxy Curve? An Assessment with Insight from GEOTRACES Datasets*. Session 17g, Goldschmidt Conference 2017, Paris. (08.17.17).
22. **Conway, T. M.** (2017) *Investigating the role of dust in the marine Fe cycle with iron isotopes*. TAO Seminar, Department of Earth and Sciences, University of Victoria (03.16.17).
21. **Conway, T. M.**, Palter, J. B., and de Souza, G. F. (2016). *One ring to rule them all - or there and back again? - the importance of gulfstream rings for Fe biogeochemistry in the North Atlantic Ocean*. Tuesday Biogeochemistry Seminar, ETHZ, Zurich (11.01.16).
20. Weber, T. S., DeVries, T., John, S. G., Bianchi, D., Deutsch, C. A., Tagliabue, A., Janssen, D., **Conway, T. M.** (2016). *Inverse modelling of GEOTRACES datasets – new insights into trace metal scavenging*. GEOTRACES and OCB workshop (Biogeochemical cycling of trace elements within the ocean: A synthesis workshop), Lamont Doherty Earth Observatory, NY, USA (08.01.16).
19. **Conway, T. M.** (2016). *Stable Metal Isotopes in the Ocean: Results from the International GEOTRACES Program - Investigating the role of dust in the marine iron cycle using iron isotopes*. Institutskolloquium, Institute für Geologie und Mineralogie, University of Cologne (07.20.16).
18. **Conway, T. M.** (2016). *Investigating the role of dust in the marine iron cycle using iron isotopes*. Seminar, Department of Chemistry, University of Kyoto (07.08.16).
17. **Conway, T. M.**, Archer, C., Rosenberg, A. D., Adkins, J. F., John, S. G. and Vance, D. (2016). *Rapid-throughput MC-ICPMS techniques for analysis of multiple transition metal isotope ratios in seawater, and case studies from recent GEOTRACES cruises*. Session 17a, Goldschmidt Conference 2016, Yokohama (06.28.16).
16. **Conway, T. M.** (2016). *Enhancing our understanding of the marine iron cycle (the role of dust) using iron isotopes*. Seminar, School of Oceanography, University of Washington (05.16.16).
15. **Conway, T. M.** (2016) *How do Fe isotopes help us understand the role of atmospheric Fe in the marine Fe cycle?* Seminar, Department of Earth Sciences, University of Cambridge (05.06.16).
14. **Conway, T. M.** (2016). *Enhancing our understanding of the marine iron cycle (the role of dust) using iron isotopes*. Seminar, College of Marine Science, University of South Florida (04.14.16).
13. **Conway, T. M.** (2016). *How do Fe isotopes help us understand the role of atmospheric Fe in the marine Fe cycle?* Seminar, Center for Elemental Mass Spectrometry, Department of Earth Sciences, University of South Carolina. (02.19.16).
12. Little, S. H., Vance D., Bridgestock, L. J., **Conway, T. M.**, Rehkämper, M., Van der Flierdt, T., John, S. G., McManus, J. F., and Severmann, S. (2015). *Isotope tracing of boundary fluxes*. Royal Society Workshop, UK (12.09.15).
11. **Conway, T. M.** (2015). *Fe, Zn and Cd and their isotopes in the oceans*. Symposium, Institute of Geochemistry and Petrology, Department of Earth Sciences, ETH Zürich (10.26.15).
10. **Conway, T. M.** (2015). *Using seawater Fe isotopes as a tracer*. Isochat Seminar, Institute of Geochemistry and Petrology, Department of Earth Sciences, ETH Zürich (02.19.15).
9. **Conway, T. M.** and John, S. G. (2014). *Quantification of dissolved Fe sources to the North Atlantic Ocean*. Seminar, Department of Earth Sciences, University of Oxford (10.28.14).
8. Janssen, D. J. **Conway, T. M.**, John, S. G. and Cullen, J. T. (2013). *An Undocumented Sink for Cd in Oceanic Oxygen Deficient Zones*. MPIC Seminar, Max-Planck Institute, Germany. (12.17.13).
7. **Conway, T. M.** (2013) *Sources of Fe to the North Atlantic: Insights from Fe isotopes*. Seminar, Woods Hole Oceanographic Institute. (10.18.13).
6. **Conway, T. M.** (2013) *Sources of Fe to the North Atlantic: Insights from Fe isotopes*. Geobiology and Oceanography Seminar, Department of Earth, Atmospheric and Planetary Sciences. Massachusetts Institute of Technology. (10.17.13).
5. **Conway, T. M.** (2013) *Sources of Fe to the North Atlantic: Insights from Fe isotopes*. Marine Science Departmental Seminar, Earth and Ocean Sciences, University of South Carolina. (09.06.13).
4. **Conway, T. M.** (2012) *Marine Trace Metals - Motivation and Methodology*. CEMS Seminar, Center for Elemental Mass Spectrometry, University of South Carolina. (10.28.12).

3. **Conway, T. M.** (2012) *Iron Isotopes in the North Atlantic*. Geology Departmental Seminar, Earth and Ocean Sciences, University of South Carolina. (10.25.12).
2. **Conway, T. M.** (2009) *Aerosol Iron Solubility at the Last Glacial Maximum*. Departmental Seminar, Department of Chemistry, University of Otago, NZ. (09.10.09).
1. **Conway, T. M.** (2007). *The Iron Hypothesis - Insights from Dust in Antarctic Ice Cores*. Departmental Seminar, Department of Earth Sciences, University of Cambridge, UK. (10.26.07).

Contributed Presentations (*denotes supervised student, #denotes supervised postdoc)

37. de Souza, G. F., Vance, D., #Sieber, M., **Conway, T. M.**, & Little, S. H. (submitted). Re-assessing the influence of water-column sulphide on the marine cadmium cycle. Goldschmidt 2019 Lyon.
38. **Conway, T. M.**, Palter, J.B., and de Souza, G. F. (upcoming). *Gulf Stream Eddies as an important transfer of high-Fe slope water across the Gulf Stream into the North Atlantic Subtropical Gyre*. Western Boundary Current-Subtropical Continental Shelf Interactions Workshop. Virtual Poster (02.17.21).
39. **Conway, T. M.**, #Sieber, M., Lanning, N., Fitzsimmons, J. F. and John, S. G. (2020). *Dissolved Zn and Cd isotopes on GP15*. US GEOTRACES GP15 Virtual Data Workshop (10.15.20).
40. #Sieber, M., Summers, B. A., Lanning, N., Fitzsimmons, J. F., John, S. G. and **Conway, T. M.** (2020). *Dissolved Fe and Fe isotopes on GP15*. US GEOTRACES GP15 Virtual Data Workshop (10.15.20).
41. Lanning, N., #Sieber, M., *Summers, B. A., John, S. G., **Conway, T. M.**, and Fitzsimmons, J. F. (2020). *Hydrothermal dissolved metals along the U.S. GEOTRACES PMT*. US GEOTRACES GP15 Virtual Data Workshop (10.15.20).
42. **Conway, T. M.**, *Summers, B. A., Schlosser, C., #Sieber, M., John, S. G., and Achterberg, E. P. (2020). *The biogeochemical cycling of Fe and its isotopes in the South Atlantic Ocean (GEOTRACES GA10)*. Goldschmidt Virtual Meeting 2020 (06.23.20).
43. #Sieber, M., Lanning, N., Weiss, G., Hatta, M., Fitzsimmons, J. N., John, S. G., and **Conway, T. M.** (2020). *Tracing the influence of Fe sources in the subarctic North Pacific using Fe isotopes (preliminary results from GP15)*. Goldschmidt Virtual Meeting 2020 (06.23.20).
44. **Conway, T. M.**, and John, S. G. (2020). *Advocacy Talk for Trace Metal Isotopes on proposed 2021-22 GEOTRACES GP17 section*. US GEOTRACES GP17 Virtual Planning Workshop 2020 (05.07.20)
45. Hawkings, J., Sherrell, R., **Conway, T. M.**, Wadham, J., Hendry, K., #Sieber, M., Torres, R., Daneri, G., Bertrand, S., Beaton, A., Kellerman, A., Marshall, M., Pryer, H., Hong Chin, N.G., Rocanova, J., Bu, K., Benning, L., and Spencer, R. (2020). *The influence of glacier cover on iron cycling in Patagonian fjords*. Ocean Sciences Meeting 2020, San Diego (02.21.20).
46. Chappell, P. D., Buck, K. N., Caprara, S., *Summers, B. A., Selden, C., Confessor, K., Donahue, L., Powell, K., Boiteau, R., **Conway, T. M.**, Charette, M., Tamborski, J., and Knapp, A. N. (2020). *Correlated dissolved organic nitrogen and dissolved iron concentrations on the West Florida Shelf: signatures of submarine ground water discharge and *Trichodesmium thiebautii**. Ocean Sciences Meeting 2020, San Diego (02.20.20).
47. **Conway, T. M.**, *Summers, B. A., Caprara, S., Mellett, T., *Schlaiss, R., Buck, K. N., Chappell, P. D., and Knapp, A. N. (2020). *The biogeochemical cycling of Fe and Fe isotopes in the Gulf of Mexico and the Gulf Stream system*. Ocean Sciences Meeting 2020, San Diego (02.20.20).
48. Rapp, I., #Sieber, M., Scholz, F., Hopwood, M., **Conway, T. M.**, Xie, R. C., Frank, M., Vance, D., and Achterberg, E. P. (2020). *Iron sources and cycling in the Peruvian oxygen minimum zone assessed using iron isotopes*. Poster. Ocean Sciences Meeting 2020, San Diego (02.19.20).
49. Steffen, J. M., *Summers, B. A., **Conway, T. M.**, Sherrell, R. M., and Fitzsimmons, J. N. (2020). *Complete Characterisation of the physiochemical speciation of hydrothermal dissolved iron, as revealed by iron isotopes: Southern East Pacific Rise (GEOTRACES GP16)*. Ocean Sciences Meeting 2020, San Diego (02.19.20).
50. Bian, X., Yang, S.-C., **Conway, T. M.**, and John, S. G. (2020). *The distribution of Ni and Ni isotopes in the North Pacific Ocean*. Poster. Ocean Sciences Meeting 2020, San Diego (02.18.20).
51. John, S. G., Pinedo-Gonzalez, P., Hawco, N., Zhang, R., Seelen, E., Kelly, R. L., Yang, S.-C., Bian, X., Fitzsimmons, J. N., **Conway, T. M.**, Lanning, N. T., #Sieber, M. (2020). *Spatial and Temporal Distribution of Bioactive trace metals in the North Pacific: MESO-SCOPE, Gradients and GP15*. Poster. Ocean Sciences Meeting 2010, San Diego (02.18.20).
52. Koenig, D., **Conway, T. M.**, Ellwood, M. E., Homoky, W. B., and Tagliabue, A. (2020). *Using a global iron isotope model to study the global iron cycling modelling*. Poster. Ocean Sciences Meeting 2020, San Diego (02.18.20).

53. *Grant, T., *Summers, B. A., #Sieber, M., and **Conway, T. M.** (2020). *A purification method for nickel from seawater for isotope analysis*. Poster. Ocean Sciences Meeting 2020, San Diego (02.18.20).
54. Yang, S.-C., Bian, X., **Conway, T. M.**, and John, S. G. (2020). *Distribution of dissolved Cu concentration and isotopic composition in the North Pacific Ocean*. Ocean Sciences Meeting 2020, San Diego (02.18.20).
55. Fitzsimmons, J. N., Lanning, N. T., Halbeisen, D., Till, C. P., Hatta, M., Weiss, G. A., **Conway, T. M.**, #Sieber, M., John, S. G., Yang, S.-C., Bian, X. (2020). *A multi-element perspective on Pacific dissolved trace metal cycling from the GEOTRACES GP15 PMT cruise*. Ocean Sciences Meeting 2020, San Diego (02.17.20).
56. Janssen, D. J., #Sieber, M., Ellwood, M. J., **Conway, T. M.**, Barrett, P. M., de Souza, G. F., Hassler, C. S., and Jaccard, S. L. (2020). *Significant biological uptake of trace metals in the Mertz Glacial Polyna, East Antarctica*. Ocean Sciences Meeting 2020, San Diego (02.17.20).
57. Lanning, N. T., #Sieber, M., Steffen, J. M., *Summers, B. A., Weis, G., German, C. R., John, S. G., Jenkins, W. J., Schlitzer, R., Hatta, M., Tagliabue, A., **Conway, T.M.**, and Fitzsimmons, J. N. (2020). *Hydrothermal iron flux analysis of Loihi Seamount using size partitioning and iron isotopes*. Ocean Sciences Meeting 2020, San Diego (02.17.20).
58. Weiss, G., Hatta, M., Measures, C., Fitzsimmons, J., Lanning, N., **Conway, T. M.**, #Sieber, M. (2020). *Distributions of dissolved iron along the 2018 U.S. GEOTRACES GP15 Pacific Meridional Transect*. Ocean Sciences Meeting 2020, San Diego (02.17.20).
59. *Grant, T., *Summers, B. A., #Sieber, M., and **Conway, T. M.** (2020). *A purification method for nickel from seawater for isotope analysis*. Emerging Researchers National Conference in STEM, Washington DC (02.07.20). **Won 1st Prize.**
60. Murawski, S., Pulster, E., Schwing, P., Schwaab, M., O'Malley, B., **Conway, T. M.**, Hollander, D., Vaz, A., Paris, C. (2020). *Do produced waters contribute to elevated PAH and other pollutant concentrations found in large pelagic fishes of the Gulf of Mexico*. Poster. Gulf of Mexico Oil Spill and Ecosystem Science Conference 2020, Tampa (02.05.20).
61. Kurisu, M., Sakata, K., Obata, H., Nishioka, J., **Conway, T. M.**, Uematsu, M., and Takahashi, Y. (2019). *Evaluation of contribution of Fe from different aerosol sources to the surface ocean based on Fe isotope ratio of combustion Fe*. Annual Meeting of The Geochemical Society of Japan, Tokyo. (09.17.19).
62. #Sieber, M., **Conway, T. M.**, de Souza, G. F., Ellwood, M., and Vance, D. (2019). *Iron cycling in the upper Southern Ocean - insights from Fe isotopes*. Goldschmidt 2019 Barcelona. (08.22.19).
63. **Conway, T. M.**, *Summers, B. A., Mellett, T., *Schlaiss, R., Caprara, S., Buck, K. N., Knapp, A. N., and Rosenberg, A. D. (2019). *A high-resolution biogeochemical surface transect of the Southern Gulf Stream along 26.8°N between Southeast Florida and the Bahamas*. Goldschmidt 2019 Barcelona. (08.21.19).
64. Field, M. P. **Conway, T. M.**, *Summers, B. A., Saetveit, N., and Sadowski, J. (2019). *Automated Processing of Seawater Samples for Iron Isotope Ratio Determination*. Poster. Goldschmidt 2019 Barcelona. (08.21.19).
65. *Summers, B. A. and **Conway, T. M.** (2019). *Tracing surface iron using isotopic signatures from the UK South Atlantic GEOTRACES GA10 Section*. Poster. Goldschmidt 2019 Barcelona. (08.21.19).
66. de Souza, G. F., #Sieber, M., **Conway, T. M.**, and Vance, D. (2019). *Biogeochemical behaviour of Cd and Zn in eastern-boundary OMZs*. Goldschmidt 2019 Barcelona. (08.20.19).
67. Hawkings, J., Sherrell, R., **Conway, T.M.**, Wadham, J., Hendry, K., Pryer, H., Danieri, G., Torres, R., Bertrand, S., Kellerman, A., Marshall, M., Beaton, A., Hong Chin, N.G., Rocanova, A., #Sieber, M., *Summers, B., Benning, L.G., and Spencer, R. (2019). *The influence of glacier cover on trace metal input and cycling in Patagonian fjords*. Goldschmidt 2019 Barcelona. (08.19.19).
68. *Grant, T., *Summers, B. A., **Conway, T. M.** (2019). *Developing a purification method for nickel from seawater for isotope analysis*. Poster. USF Tampa Undergraduate Research Symposium. (07.25.19).
69. Kim, J., Jung, J., Lee, J., Yoo, K., Hwang, C., Yoon, H., Rosenheim, B. and **Conway, T.M.** (2019). *Biogeochemical Modification of Clay Minerals: a source of Fe? XIII International Symposium on Antarctic Earth Sciences, Incheon.* (07.24.19).
70. Steffen, J. M., *Summers, B. A., **Conway, T. M.**, Sherrell, R. M., and Fitzsimmons, J. N. (2019). *Size-fractionated iron isotopes along the East Pacific Zonal Transect*. Poster. Gordon Research Conference, Chemical Oceanography, New Hampshire. (07.17.19).
71. *Hung-an, T., **Conway, T. M.**, Laan, P., van Manen, M., Reichart, G.-J., Middag, R. (2019). *Dissolved iron in the Amundsen Sea: Quantification and identification of sources of iron*. Poster. Gordon Research Conference, Chemical Oceanography, New Hampshire. (07.17.19).
72. *Grant, T., *Summers, B. A., **Conway, T. M.** (2019). *Developing a purification method for nickel from seawater for isotope analysis*. Poster. USF CMS REU Symposium. (07.16.19).

73. Chappell, P. D., Buck, K. N., **Conway, T. M.**, Selden, C., Powell, K., Miranda, C., Mellett, T., Caprara, S., *Summers, B., Knapp, A. N. (2019). *Is the Trichodesmium thiebautii clade linked to the release of low delta 15N dissolved organic nitrogen on the West Florida Shelf?* Poster. Gordon Research Conference, Chemical Oceanography, New Hampshire. (07.15.19).
74. Knapp, A. N., Buck, K. N., Boiteau, R., **Conway, T. M.**, *Summers, B., Charette, M., Tamborski, J., Miranda, C., Mckenna, A., Selden, C., Mellett, T., Caprara, S., and Chappell, D. (2019). *Correlated dissolved organic nitrogen and dissolved iron concentrations on the West Florida Shelf: signatures of submarine groundwater discharge and Trichodesmium thiebautii.* Poster. Gordon Research Conference, Chemical Oceanography, New Hampshire. (07.15.19).
75. Steffen, J. M., *Summers, B. A., **Conway, T. M.**, Sherrell, R. M., and Fitzsimmons, J. N. (2019). *Size-fractionated iron isotopes along the East Pacific Zonal Transect.* Gordon Research Symposium Chemical Oceanography, New Hampshire. (07.13.19).
76. Milne, A., **Conway, T. M.**, Schlosser, C., John, S., Achterberg, E., and Lohan, M. (2019). *Iron along the GEOTRACES South Atlantic transect GA10.* Challenger Advances in Marine Biogeochemistry Conference, UEA. (06.25.19).
77. *Summers, B. A., Homoky, W. B., Mills, R. A., John, S. G., and **Conway, T. M.** (2019). *Investigating the isotopic signature and release of iron sourced from sediments to the UK South Atlantic GEOTRACES GA10 Section.* Poster. USF CMS Graduate Student Symposium. (01.11.19).
78. Hayes C. T., Anderson, R. F., Cheng, H., **Conway, T. M.**, Edwards, L., Fleisher, M. Q., Huang, K.-F., John, S. G., Landing, W. M., Little, S. H., Lu, Y., Morton, P. L., Moran, B., Robinson, L. F., Shelley, R. U., Shiller, A. M., and Zheng, X. (2018). *Replacement times of the rare earth elements in the North Atlantic Ocean based on thorium supply.* AGU Fall Meeting, Washington DC. (12.11.18).
79. Homoky, W. B., **Conway, T. M.**, John, S. G., Woodward, M. Tagliabue, A., and Mills, R. A. (2018). *Oxic ocean margins: lithogenous factories of colloidal iron isotopes for seawater budgets.* Challenger Conference 2018, Newcastle. (09.11.18).
80. *Sieber, M., **Conway, T. M.**, de Souza, G. F., Ellwood, M., and Vance, D. (2018). *The cycling of Zn and Cd isotopes in multiple sectors of the Southern Ocean from the Antarctic Circumnavigation Expedition.* Goldschmidt 2018, Boston. (08.16.18).
81. **Conway, T. M.**, Palter, J. B., and de Souza, G. F. (2018). *Gulf Stream Eddies as an important source of dissolved Fe to the North Atlantic Subtropical Gyre.* Poster. Goldschmidt 2018, Boston. (08.15.18).
82. *Summers, B. A., Homoky, W. B., Mills, R. A., John, S. G., and **Conway, T. M.** (2018). *Investigating the isotopic signature and release of iron sourced from sediments to the UK South Atlantic GEOTRACES GA10 Section.* Poster. Goldschmidt 2018, Boston. (08.15.18).
83. *Sieber, M., **Conway, T. M.**, Ellwood, M., and Vance, D. (2018). *Biogeochemical cycling of dissolved micronutrient metal isotopes in the Southern Ocean.* SCAR/IASC Conference 2018, Davos. (06.21.18).
84. **Conway, T. M.**, *Sieber, M., Ellwood, M. E., Takano, S., Sohrin, Y., and Vance, D. (2018). *The competing influence of local cycling, regional sources and Southern Ocean processes in influencing Fe isotope cycling at lower latitudes in the oceans.* Ocean Sciences Meeting 2018, Portland. (02.14.18).
85. Saito, M., Noble, A., Hawco, N., Twining, B., Ohnemus, D., John, S., Lam, P., **Conway, T. M.**, Johnson, R., Moran, D., and McIlvin, M. (2017). *The Acceleration of Dissolved Cobalt's Ecological Stoichiometry due to Biological Uptake, Remineralization, and Scavenging in the North Atlantic Ocean.* Goldschmidt 2017, Paris. (08.14.17).
86. Milne, A., **Conway, T. M.**, Schlosser, C., John, S., Achterberg, E., and Lohan, M. (2017). *Iron along the GEOTRACES South Atlantic transect GA10.* Poster. Goldschmidt 2017, Paris. (08.14.17).
87. *Sieber, M., **Conway, T. M.**, Takano, S., Sohrin, Y., and Vance, D. (2017). *The role of Southern Ocean processes in controlling the distribution of Cd isotopes at lower latitudes in the South West Pacific.* Goldschmidt 2017, Paris. (08.14.17).
88. de Souza, G. F., Palter, J. B., and **Conway, T. M.** (2017). *Gulf Stream eddies rival atmospheric supply of iron to the North Atlantic subtropical gyre.* Goldschmidt 2017, Paris. (08.14.17).
89. **Conway, T. M.**, Wolff, E. W., Röthlisberger, R., Mulvaney, R., and Elderfield, H. (2017). *Constraining a natural iron solubility baseline and soluble iron fluxes from dust to the Southern Ocean during glacial intervals.* ASLO Aquatic Sciences 2017, Honolulu. (02.27.17).
90. Homoky, W. B., **Conway, T. M.**, John, S. G., Woodward, E. M. S., and Mills, R. A. (2017). *Shallow pore water iron isotope signatures spanning the depth of the South Atlantic Ocean.* ASLO Aquatic Sciences 2017, Honolulu. (02.28.17).
91. *Sieber, M., **Conway, T. M.**, Takano, S., Sohrin, Y., and Vance, D. (2016). *The role of the Antarctic oceans in controlling the distribution of Cd isotopes at lower latitudes in the South West Pacific.* The 14th Swiss Geoscience Meeting, Geneva. (11.19.16).

92. **Conway, T. M.** (2016). *The Influence of Intermediate Waters on Lower Latitude TEI Cycling (AAIW and NPIW)*. US GEOTRACES PMT Planning Meeting, La Jolla, San Diego. (10.05.16).
93. Homoky, W. B., Weber, T., Berelson, W. M., **Conway, T. M.**, Henderson, G. M., van Hulst, M., Jeandel, C., Severmann, S., Tagliabue, A. (2016). *Highlights from an assessment of oceanic trace element and isotope exchange at the sediment-water boundary*. Challenger Society Meeting, Liverpool. (09.06.16).
94. *Sieber, M., **Conway, T. M.**, Takano, S., Sohrin, Y., and Vance, D. (2016) *The role of the polar oceans in controlling the distribution of Cd isotopes at lower latitudes in the South West Pacific*. Poster. Goldschmidt 2016, Yokohama. (06.28.16).
95. **Conway, T. M.**, Shelley, R. U., Aguilar-Islas, A. M., Landing, W. M., Mahowald, N. M., Sedwick, P. N., and John, S. G. (2016). *Tracing anthropogenic aerosol Fe sources in the North Atlantic Ocean using dissolved Fe isotope ratios*. ASLO Ocean Sciences 2016, New Orleans. (02.22.16).
96. Stichel, T., Lough, A., Homoky, W. B., Connelly, D. P., Klar, J., **Conway, T. M.**, John, S. G., and Mills, R. A. (2016). *Iron isotopes in bottom waters from the Bransfield Strait: Implications for deep water Fe supply*. ASLO Ocean Sciences 2016, New Orleans. (02.22.16).
97. **Conway, T. M.**, Homoky, W. B., Mills, R. A., and John, S. G. (2015) *Transfer of iron across the sediment-water interface: insights from iron isotopes*. Poster. Royal Society Workshop, UK. (12.09.15).
98. **Conway, T. M.**, Shelley, R. U., Aguilar-Islas, A. M., Landing, W. M., Mahowald, N. M. and John, S. G. (2015). *Fe isotope ratios as a tracer for anthropogenic aerosol sources*. Goldschmidt 2015, Prague. (08.19.15).
99. Homoky, W. B., **Conway, T. M.**, John, S. G., Hsieh, Y.-T., Hembury, D. J., Woodward, E. M. S., Henderson, G. M. and Mills, R. A. (2015). *Shallow pore water iron isotope signatures spanning the depth of the South Atlantic Ocean*. Goldschmidt 2015, Prague. (08.17.15).
100. John, S. G., Weber, T. S., **Conway, T. M.**, Deutsch, C. A., DeVries, T., Bruland, K. W., Cunningham, B. R., de Baar, H. J. W., Lohan, M. C., Middag, R., Roshan, S., Twining, B. S., Wu, J. and Wyatt, N. J. (2015). *Using a Global Model to Evaluate Processes that Control the Oceanic Zn Distribution*. Goldschmidt 2015, Prague. (08.17.15).
101. Stichel, T., Homoky, W. B., Connelly, D. P., Klar, J., **Conway, T. M.**, John, S. G. and Mills, R. A. (2015). *Iron isotopes in bottom waters from the Bransfield Strait: Implications for deep water Fe supply*. Poster. EGU 2015, Vienna. (04.13.15).
102. Homoky, W. B., **Conway, T. M.**, John, S. G., Hsieh, Y.-T., Hembury, D. J., Woodward, E. M. S., Henderson, G. M. and Mills, R. A. (2014). *Distinct iron isotope signatures of sediment dissolution are widespread in pore waters across the South Atlantic Ocean*. Challenger Meeting, Plymouth. (09.10.14).
103. John, S. G., **Conway, T. M.**, Janssen, D. and Cullen, J. T. (2014). *Cadmium Sulfide Formation in Low-Oxygen Waters of the North Atlantic*. Goldschmidt 2014, Sacramento. (06.12.14).
104. **Conway, T. M.** and John, S. G. (2014). *Quantifying Sources of Iron to the Oceans Using Iron Isotopes*. Poster. Goldschmidt 2014, Sacramento. (06.11.14).
105. John, S. G. and **Conway, T. M.** (2014). *Scavenging of Zinc and Zinc isotopes onto Sinking Biological Material in the Upper Ocean*. Poster. Goldschmidt 2014, Sacramento. (06.11.14).
106. Cullen, J. T., Janssen, D., Christian, J., **Conway, T. M.** and John, S. G. (2014) *An Undocumented Water-column sink for cadmium in open ocean Oxygen Minimum Zones*. Poster. Goldschmidt 2014, Sacramento. (06.11.14).
107. **Conway, T. M.** and John, S. G. (2014). *Isotopic Insights on the Marine Zinc Cycle in the North Atlantic*. Goldschmidt 2014, Sacramento. (06.10.14).
108. Lohan M. C., Wyatt, N. J., Milne, A., Middag, R. and **Conway, T. M.** (2014). *Zinc distributions in the Atlantic Ocean: the use of a new tracer Zn**. ASLO Ocean Sciences 2014, Honolulu. (02.26.14).
109. Rijkenberg, M. J. A., Middag, R., **Conway, T. M.**, Bruland, K. W., and de Baar, H. J. W. (2014). *Excellent consistency of dissolved manganese, iron, cobalt, nickel, copper, zinc, cadmium and lead at the Bermuda crossover station of two GEOTRACES sections*. ASLO Ocean Sciences 2014, Honolulu. (02.26.14).
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122. Homoky, W. B., Mills, R. A., John, S. G. and **Conway, T. M.** (2012). *A closer look at Fe isotopes during early diagenesis*. GEOTRACES workshop - stable isotopes of biologically important trace metals. Imperial College, London. (09.14.12)
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124. **Conway, T. M.**, John, S. G. and Rosenberg, A. D. (2012). *Iron isotopes in the eastern North Atlantic*. Goldschmidt 2012, Montreal. (06.26.12).
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Workshop Participation

- *Western Boundary Current Shelf Virtual Workshop*, USA, November 2020; February 2021.
- *US GEOTRACES GP15 Virtual Data Workshop*, USA, October 2020.
- *US GEOTRACES GP17 Virtual Planning Workshop*, USA. May 2019.
- *Gulf of Mexico RCRV Science Planning Workshop*. Gulfport, MS, USA. January 2019.
- *US GEOTRACES GP15 PMT Planning Workshop*. ODU, Norfolk, VA, USA. March 2018.
- *US GEOTRACES Pacific Meridional Transect planning meeting*, La Jolla, CA, USA. October 2016.
- *Biogeochemical cycling of trace elements within the ocean: A synthesis workshop*. GEOTRACES & OCB. Lamont Doherty Earth Observatory, NY, USA. August 2016.
- *GEOTRACES Indian Ocean Planning Workshop*. Yokohama, Japan. June 2016.
- *Quantifying fluxes and processes of trace-metal cycling at ocean boundaries*. Royal Society. Chicheley Hall, Buckinghamshire, UK. December 2015.
- *Stable isotopes of biologically important trace metals*. Imperial College, London, UK. September 2013.
- *US GEOTRACES North Atlantic Section data workshop*. ODU, Norfolk, VA, USA. March 2013.
- *US GEOTRACES North Atlantic Section data workshop*. ODU, Norfolk, VA, USA. February 2011.

My work featured in popular media

- **Knowable Magazine** December 2019 – *The iron ocean*. <https://www.knowablemagazine.org/article/physical-world/2019/ocean-iron-fertilization>

- **Scientific American** July 2019 - *Humans may be accidentally geoengineering the oceans.* <https://www.scientificamerican.com/article/humans-may-be-accidentally-geoengineering-the-oceans/>
- **EOS** January 2019 - *A Novel Approach Reveals Element Cycles in the Ocean.* <https://eos.org/research-spotlights/a-novel-approach-reveals-element-cycles-in-the-ocean>
- **ETH News** February 2018 - *Gulf Stream eddies as a source of iron* <https://ethz.ch/en/news-and-events/eth-news/news/2018/07/gulf-stream-eddies-as-source-of-iron.html>
- **Nature** July 2014 - *News and Views: Ocean chemistry: Fingerprints of a trace nutrient.* <https://www.nature.com/articles/nature13513>
- **Columbia Earth Institute** July 2014 – *Iron fingerprints.* <https://blogs.ei.columbia.edu/2014/07/11/iron-fingerprints/>
- **Nature News** February 2014 - *Digital atlas shows oceans' iron levels.* <https://www.nature.com/news/digital-atlas-shows-oceans-iron-levels-1.14774>
- **BBC News** July 2013 – *Key to ocean life shows large regional variations.* <https://www.bbc.com/news/science-environment-23379646>

GEOTRACES Science Highlights

- **2019 Tracing anthropogenic aerosol Fe (Conway *et al.*, 2019)** <http://www.geotraces.org/science/science-highlight/1703-application-aerosol-iron>
- **2018 Gulf Stream Fe supply (Conway *et al.*, 2018)** <http://www.geotraces.org/science/science-highlight/1547-gulf-stream-eddies>
- **2016 International inter-comparison of Fe isotopes (Conway *et al.*, 2016)** <http://www.geotraces.org/science/science-highlight/1238-a-fruitful-international-intercomparison>
- **2015 Intermediate Data Product (Mawji *et al.*, 2015)** <http://www.geotraces.org/science/science-highlight/1155-geotraces-publishes-the-motivations-and-description-of-its-first-intermediate-data-product>
- **2014 The first Zn isotope oceanic section (Conway and John, 2014)** <http://www.geotraces.org/science/science-highlight/science-highlights-archive/956-why-is-the-deep-ocean-zinc-isotopic-signature-so-heavy>
- **2014 Quantifying Fe sources in the North Atlantic (Conway and John, 2014)** <http://www.geotraces.org/science/science-highlight/science-highlights-archive/914-dissolved-iron-sources-in-the-north-atlantic-ocean-quantified>
- **2014 Undocumented sink for Cd in ODZ (Janssen *et al.*, 2014)** <http://www.geotraces.org/science/science-highlight/science-highlights-archive/906-undocumented-cadmium-zinc-and-copper-sink>
- **2014 A scavenging control on oceanic Zn (John and Conway, 2014)** <http://www.geotraces.org/science/science-highlight/890-sinking-organic-matter>
- **2013 A new method for Fe, Zn and Cd isotopes (Conway *et al.*, 2013)** <http://www.geotraces.org/science/science-highlight/science-highlights-archive/798-conway-2013>

USF News Stories featuring my group and my work

- <https://www.usf.edu/marine-science/news/2020/a-grand-challenge-that-rivals-rising-seas-creating-a-culture-of-diversity-in-ocean-science.aspx>
- <https://www.usf.edu/marine-science/news/2019/new-iron-release-pathway-discovered-in-antarctic-sediment-core-study.aspx>
- <https://www.usf.edu/marine-science/news/2019/cms-faculty-teach-usf-honors-undergraduates-about-estuaries-in-the-class-and-at-sea.aspx>
- <https://www.usf.edu/marine-science/news/2019/is-a-great-iron-fertilization-experiment-already-underway.aspx>
- <https://www.usf.edu/marine-science/news/2019/reu-2019-summary.aspx>
- <https://www.usf.edu/marine-science/news/2019/gulf-stream-trace-metals-cruise-day-2-return-from-the-bahamas.aspx>
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- <https://www.usf.edu/marine-science/news/2019/a-novel-approach-reveals-element-cycles-in-the-ocean.aspx>
- <https://www.usf.edu/marine-science/news/2018/super-station-super-techs-part-1.aspx>
- <https://www.usf.edu/marine-science/news/2018/the-us-geotraces-expedition-along-the-pacific-ocean-departs.aspx>
- <https://www.usf.edu/marine-science/news/2018/cms-faculty-tim-conway-awarded-nsf-grant-to-study-dust-dissolution-in-the-ocean.aspx>
- <https://www.usf.edu/marine-science/news/2018/gulf-stream-eddies-supply-iron-to-the-iron-starved-north-atlantic-gyre.aspx>
- <https://www.usf.edu/marine-science/news/2017/trace-metal-chemistry-less-is-more.aspx>