Dr Tim M Conway BA MA(Cam) MSci PhD

Associate Professor (Chemical Oceanography)
College of Marine Science, University of South Florida
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49 Peer-Reviewed Publications *(8 in Nature Journals, 2 in PNAS, 1 in Geology), and 7 in review.*
Google Scholar: 2792 citations, h-index 26, i10-index 34, i100-index 10.

Education

PhD Earth Sciences (NERC Studentship) (2006-2010).
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**.

BA and MSci Natural (Geological) Sciences 1st Class Hons. (2002-2006).
Cambridge University, Department of Earth Sciences & St Catharine's College.

Research Experience and Employment

Associate Professor (June 2021 – Present)
Assistant Professor (December 2016 - June 2021)
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 advising 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 $\delta^{56}Fe$, $\delta^{66}Zn$ and $\delta^{114}Cd$ variability in modern seawater in the Antarctic-Equatorial Pacific (Japanese GP19 Section). Co-Advising 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 $\delta^{56}Fe$, $\delta^{66}Zn$ and $\delta^{114}Cd$ in various materials, Atlantic GEOTRACES Transects (GA03 and GA10).

Graduate Intern (June - August 2008)
Bermuda Institute of Ocean Sciences, Bermuda (with Dr Peter Sedwick).

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

Teaching Experience

College of Marine Science, University of South Florida (2017-Present)
OCE 6050 CMS: Grad. Core Chemical Oceanography (2017-Present; **Lead:** 2018, 2020, 2023-Present).
OCE 6934 CMS: Grad. Analytical Geochemistry (**Lead:** Spring 2020, 2022).
OCE 6934 CMS: Grad. Geochemistry (**Lead:** Fall 2019).
OCE 6934 CMS: Grad. New Applications of Stable Isotopes in Ocean Chemistry (**Lead:** 2018, 2023).
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: 2017-2023).
GLY 6825C Geosciences: Analytical Techniques in Geology (Guest: 2017).

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

Grant Funding (External Awards to USF-CMS as PI total $2.15m)

Active Awards

- PI on NSF Award OCE2148836 '*Collaborative Research: Linking Fe and nitrogen sources in an oligotrophic coastal margin: N_2 fixation and the role of boundary fluxes'* (**Total: $2,297,036, UNOLS ship time $1,143,810; USF $238,621; 03/01/22-02/28/25**).
- Lead PI on NSF Award OCE2123354 '*Collaborative Research: US GEOTRACES GP17-ANT: Dissolved concentrations, isotopes and colloids of the bioactive trace metals'* (**Total: $1,205,652; USF $397,537 10/01/21-09/31/24**).
- PI on NSF Award OCE2049214 '*Collaborative Research: US GEOTRACES GP17-OCE: Dissolved concentrations, isotopes and colloids of the bioactive trace metals'* (**Total: $1,177,457; USF $351,982 9/01/21-8/31/24**).
- 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; 9/01/18-8/31/23).**
- 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**).

Prior Awards

- Lead PI on NSF Award OCE1737136 '*Collaborative Research: US GEOTRACES PMT: Trace-metal concentrations and stable isotopes in the North Pacific'* (**Total: $898,000; USF $457,711**; 8/15/17-1/31/23). Includes NSF REU Supplement OCE173716-1 for College of Marine Science's Minority Serving Institutions Summer REU program (**USF $12,000; May-July 2019).**
- PI on State of Florida DEP Award BA33FF *'Analysis of Archived Piney Point Samples'* (**Total USF: $418,9790; Conway: $13,471** 12/1/21-6/30/22**)**.
- 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; Funded but cancelled due to COVID-19).
- 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).
- 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 ACE 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).

Research Staff and Visitor Supervision and Mentoring

College of Marine Science, University of South Florida.

- Postdoctoral Research Fellow, USF CMS, Dr. Eniko Toth (2020-2022)
- Postdoctoral Research Fellow USF CMS, Dr Matthias Sieber (2019-2022).
- Laboratory Technician USF CMS, Ryan Schlaiss (2019), Brent Summers (2020).
- Hosted Visiting Students and Postdocs at USF CMS – Minako Kurisu (PhD), Insa Rapp (PhD), Janelle Steffen (PhD), Xiaopeng Bian (PhD), Shun-Chung Yang (Postdoc), Jon Hawkings (Postdoc).

Student Supervision and Mentoring

College of Marine Science, University of South Florida (2017-Present)

o	Main Professor:	PhD student, USF CMS, Zachary Bunnell	(Fall 2022-Present).
		PhD student, USF CMS, Dylan Halbeisen	(Fall 2021-Present).
		PhD student, USF CMS, Hannah Hunt	(Fall 2020-Present).
		MS student, USF CMS, Claire Onak	(Fall 2020-Present).
		MS student, USF CMS, Zachary Bunnell	(2019-2022).
		MS student, USF CMS, Brent Summers	(2017-2020).
		REU student, USF CMS, Tione Grant	(Summer 2019).
		Summer UG Intern, USF CMS, Emma Chestang	(Summer 2023)
		Summer UG Intern, USF CMS, Ryan Schlaiss	(Summer 2017, 2018).
o	Co-Advisor:	PhD student, NIOZ, Netherlands, Hung-An Tian	(2017-Present).
		PhD student, ETH Zürich, Switzerland, Matthias Sieber	(2015-2019).
o	Committee:	PhD Student, USF CMS, Kalla Fleger	(2023-Present).
		PhD student, USF CMS, Shannon Burns	(2019-Present).
		PhD Student, USF CMS, Imogen Browne	(2019-Present).
		PhD student, USF Geosciences, Sammy Tavarez	(2017-Present).
		PhD student, USF Geosciences, Alex Maruszczak	(2019-2023).
		PhD student, USF CMS, Ellie Hudson-Heck	(2019-2021).
		PhD student, USF CMS, Kara Vadman	(2019-2021).
		PhD student, USF CMS, Travis Mellett	(2018-2020).
		PhD student, USF CMS, Cristina Subt	(2017).
		MS student, USF CMS, Catherine Prunella	(2019-2020).
		MS student, USF CMS, Adrienne Hollister	(2018-2019).
		MS student, USF CMS, Gabriel Browning	(2018).
o	Ex. Examiner:	PhD student, ANU AUS, Moneesha Samanta	(2017).
		PhD student, University of Otago, NZ, Ejin George	(2017).
o	Mentor:	3 graduate students at Goldschmidt Conference	(2017, 2018).
		1 REU undergraduate student at AGU ASLO Meeting	(2017).
o	Student Judge:	USF CMS Graduate Student Symposium	(2018, 2020).

Department of Earth Sciences, ETH Zürich (2015-2016)

o	Co-Advisor:	PhD student Matthias Sieber	(2015-2016).
o	Mentor:	2 students at Goldschmidt Conference	(2016).

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

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

Awards to advised USF graduate students

- USF Renate E. Bernstein Outstanding Authorship Award to Hannah Hunt (2023: **$1,000**)
- Florida SeaGrant Fellowship to Hannah Hunt (2023; **$35,765+Tuition**)
- NSF Graduate Research Fellowship to Dylan Halbeisen (2022-25; **$102,000+Tuition**)
- USF Graduate Student Success Fellowship to Dylan Halbeisen (2021-24; **$30,000+Tuition**)
- USF CMS Renate E. Bernstein Outstanding Authorship Award to Hannah Hunt (2023; **$1,000**)
- USF CMS Kent Fanning Memorial Endowed Fellowship to Zachary Bunnell (2021; **$10,000+Tuition**)
- USF CMS Southern Kingfish Association Fellowship to Claire Onak (2021-22; **$10,000+Tuition**)
- USF CMS Paul Getting Memorial Fellowship to Zachary Bunnell (2020-21; **$13,000+Tuition**),
- USF CMS Anne and Werner Von Rosenstiel Fellowship to Claire Onak (2020-21; **$26,000+Tuition**).
- USF CMS Anne and Werner Von Rosenstiel Fellowship to Brent Summers (2017-18; **$25,000+Tuition**).

University Service

University of South Florida College of Marine Science Committee Memberships.

CMS Deans Advisory Council (2020-Present; **Chair** 2022-Present).
CMS Student Admissions (2019; 2021-Present).
CMS Space (2019-Present).
CMS Research Staff Career Ladder (2019-Present; **Co-Chair** 2021-Present),

CMS Analytical Biogeochemistry Working Group (2019-Present).
CMS Chemical Oceanography 2 Faculty Search (**Chair** 2022-2023).
CMS Chemical Oceanography Ad-hoc Faculty Search (**Chair** 2022).
CMS Phytoplankton 2 Faculty Search (2022).
CMS Faculty Annual Evaluation and Oversight (2019-22; **Chair** 2020-2022).
CMS Integrated Marine Science Exam (2019-20).
CMS Chemical Oceanography Search (2018-19).
CMS Student and Faculty Rights and Responsibilities (2017).

Membership of Professional Societies

- The Oceanography Society, American Geophysical Union, Geochemical Society.
- Sigma XI Full Membership (2021-present)

Academic Community Service

- **Journal Editor**: Associate Editor, *Geochimica et Cosmochimica* (2021-Present); Academic Editor *PLOS One* (2018-2022); Lead Guest Editor, Special Edition, *Chemical Geology* (2017-2021); Lead Guest Editor Special Volume, *Oceanography* (2022-Present).
- **International Service:** GEOTRACES Standards and Intercalibration Committee (2022-Present).
- **National Service:** Gulf of Mexico GEOTRACES Planning Group (2021-Present); NSF Panel Review NSF Geosciences Directorate (2019).
- **Conference Session Convenor** (9): 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 2020 Virtual Meeting (14m); Ocean Sciences 2022 Virtual Meeting (CT03); Ocean Sciences 2024 New Orleans (Proposed).
- **Ad Hoc Proposal Reviewer on behalf of:** *Actions Thématiques Stratégiques Federal University of Toulouse, France (2015), German Research Foundation (2015-2022), European Research Council Starting Grants (2016), US National Science Foundation (2016-2023), Austrian Science Fund (2017, 2018), UK NERC (2018), Israel Science Foundation (2019, 2020).*
- **Ad Hoc Journal Reviewer** (82): *Analytica Chimica Acta (1), Analytical Letters (3), Atmosphere (1), Atmospheric Environment (1), Biogeosciences (1), Bulletin of the AMS (1), Chemical Geology (3), Chemosphere (1), Deep Sea Research Pt II (1), Earth & Planetary Science Letters (12), Ecohydrology & Hydrobiology (2), Environmental Pollution (2), Frontiers in Marine Science (1), Journal of Geophysical Research Oceans (2), Geochimica et Cosmochimica Acta (12), Geology (4), Geophysical Research Letters (2), Global Biogeochemical Cycles (8), International Journal of Mass Spectrometry (1), Journal Analytical Atomic Spectrometry (1), Limnology & Oceanography (1), Marine Chemistry (8), Nature (1), Nature Communications (2), Nature Geoscience (3), PNAS (1), Precambrian Research (1), Science (1), Science of the Total Environment (2), Talanta (1), American Journal of Undergraduate Research (1).*
- **Unlearning Racism in Geoscience USF CMS Pod** (2021).

Peer-Reviewed Publications **denotes supervised Graduate Student, #denotes supervised Postdoc.*

- Boiteau, R., Corilo, Y. E., Kew, W. R., Dewey, C., Alvarez Rodriguez, M. C., Carlson, C. A., and **Conway, T. M.** (in review). Persistence of marine dissolved organic matter is linked to intrinsic molecular properties. *Environ. Sci. Tech.*
- Bian, X., Yang, S.-C., Raad, R. J., Hawco, N. J., Sakowski, J., Kong, K. P., **Conway, T. M.,** and John. S. G. (in review). A rapid method for isotopic purification of copper and nickel from seawater using an automated chromatography system. *Anal. Chim. Acta.*
- Buckley, N. R., Black, E. B., Kenyon, J. A., Lanning, N. T., #Sieber, M., **Conway, T. M.**, Fitzsimmons, J. N., and Cutter, G. A. (in review). Re-evaluating hydrogen sulfide as a sink for cadmium and zinc in the oxic to suboxic water column of the Pacific Ocean. *Glob. Biogeochem. Cycles.*
- Jung, J., Park, K. Y., Kim, K., Koo, T., Rosenheim, B. E., **Conway, T. M.**, and Kim, J. (in review). The role of psychrophiles in reductive dissolution of Fe-bearing minerals in the freeze-thaw cycle. *Geochim. Cosmochim. Acta.*
- Ruan, Y., Zhang, R., Yang, S-C., Jiang, Z., Chen, S., **Conway, T. M.**, Huang, K.-F., Boyle, E. A., and John, S. G. (in revision). Iron, Nickel, Copper, Zinc and their stable isotopes along a salinity gradient in Pearl River Estuary, southeastern China. *Earth Planet. Sci. Lett.*

- 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*.
- *Tian, H.-A., van Manen, M., *Bunnell, Z. B., Jung, J., Hoon Lee, S., Kim, T.-W., Reichart, G.-J., **Conway, T. M.**, and Middag. R. (in revision). Isotopic insights for external iron sources and biogeochemical cycling in the Amundsen Sea Polynyas. *Geochim. Cosmochim. Acta.*

49. Fourquez, M., Janssen, D. J., Cabanes, D., **Conway, T. M.**, Ellwood, M. E., #Sieber, M., Trimborn, S., and Hassler, C. (2023). Chasing iron bioavailability in the Southern Ocean: Insights from *Phaeocystis antarctica* and iron speciation. *Science Advances.* 9, eadf969.
48. #Sieber, M., Lanning, N. T., Bian, X., Yang, S.-C., Takano, S., Sohrin, Y., Weber, T. S., Fitzsimmons, J. N., John, S. G., and **Conway, T. M.** (2023). The importance of reversible scavenging for the marine zinc cycle as evidenced by the distribution of zinc and zinc isotopes in the Pacific Ocean. *J. Geophys. Res. Oc.* 128(4). e2022JC019419.
47. *Tian, H.-A., van Manen, M., Laan, P., Wille, F., Jung, J., Hoon Lee, S., Kim, T.-W., Aoki, S., Eich, C., Brussaard, C., Reichart, G.-J., **Conway, T. M.**, and Middag. R. (2023). The biogeochemistry of zinc and cadmium in the Amundsen Sea, coastal Antarctica. *Mar. Chem.* 249, 104223.
46. Fitzsimmons, J. N., and **Conway, T. M.** (2023). Novel Insights into marine iron biogeochemistry from iron isotopes. *Ann. Rev. Mar. Sci.* 15. 383-406.
45. #Sieber, M., Lanning, N. T., *Bunnell, Z. B., Bian, X., Yang, S.-C., Marsay, C. M., Landing, W. M., Buck, C. S., Fitzsimmons, J. N., John, S. G., and **Conway, T. M.** **(**2023). Biological, physical, and atmospheric controls on the distribution of cadmium and its isotopes in the Pacific Ocean. *Glob. Biogeochem. Cycles.* 37 (2), e2022GB007441.
44. Middag, R., Zitoun, R., and **Conway, T. M.** (2023). Trace Metals. In *Marine Analytical Chemistry*. Eds. Blasco, J., and Tovar-Sánchez, A. *Springer, Cham*. pp 103-198.
43. Ng, C. H., Hawkings, J. R., Betrand, S., *Summers, B. A., #Sieber, M., **Conway, T. M.**, Freitas, F. S., Ward, J. P. J., Pryer, H. V., Wadham, J. L., and Hendry, K. R. (2022). Benthic dissolved silicon and iron cycling at Patagonian glaciated fjord heads. *Glob. Biogeochem. Cycles.* 36, e2022GB007493.
42. *Hunt, H., *Summers, B. A., #Sieber, M., Krisch, S., Al-Hashem, A., Hopwood, M., Achterberg, E. P., and **Conway, T. M.** (2022). Distinguishing the influence of sediments, the Congo River, and water-mass mixing on the distribution of iron and its isotopes in the Southeast Atlantic Ocean. *Mar. Chem.* 247, 104181.
41. van Manen, M., Aoki, S., Brussard, C. P. D., **Conway, T. M.**, Eich, C., Gerringa, L, Jung, J., Kim, T.-W., Hoon Lee, S., Youngju, L. Reichart, K., *Tian, H.-A., Willie, F., and Middag, R. (2022). The role of the Dotson Ice Shelf and circumpolar deepwater as driver and source of dissolved and particulate iron and manganese in the Amundsen Sea Polynya, Southern Ocean. *Mar. Chem.* 246. 104061.
40. John, S. G., Kelly, R., Bian, X., Fu, F., Smith, M. I., Lanning, N. T., Liang, H., Pasquier, B., Seelen, E. A., Holzer, M., Wasylenki, L. E., **Conway, T. M.**, Fitzsimmons, J. N., Hutchins, D., and Yang, S. C. (2022). The biogeochemical balance of oceanic nickel cycling. *Nature Geoscience.* 15. 906-912.
39. König, D., **Conway, T. M.,** Hamilton, D. S., and Tagliabue, A. (2022). Surface ocean biogeochemistry regulates the impact of anthropogenic aerosol Fe deposition on the cycling of Fe and Fe isotopes in the North Pacific. *Geophys. Res. Lett.* 49 (13), e2022GL098016.
38. de Souza, G. F., Vance, D., #Sieber, M., **Conway, T. M.**, & Little, S. H. (2022). Re-assessing the influence of water-column sulphide on the marine cadmium cycle. *Geochim. Cosmochim. Acta.* 322, 274-296.
37. Horner, T. J., Little, S. H., **Conway, T. M.**, Farmer, J. R., Hertzberg, J. E., Janssen, D. J., 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. (2021). Bioactive trace metals and their isotopes as paleoproductivity proxies: An assessment using GEOTRACES-era data. *Global Biogeochem. Cycles*. 35, 11. e2020GB006814.
36. König, D., **Conway, T. M.**, Ellwood, M. J., Homoky, W. B., and Tagliabue, A. (2021). Constraints on the cycling of iron isotopes from a global ocean model. *Global Biogeochem. Cycles.* 35, 9. e2021GB006968.
35. Yang, S.-C., Kelly, R., Bian, X., **Conway, T. M.**, Huang, K.-F., Ho, T.-Y., Neibauer, J., A., Keil, R. G., Moffett, J. W. and John, S. G. (2021). Lack of Redox Cycling for Nickel in the Water Column of the Eastern Tropical North Pacific Oxygen Deficient Zone: Insight from Dissolved and Particulate Nickel Isotopes. *Geochim. Cosmochim. Acta.* 309, 235-250.
34. **Conway, T. M.,** Horner, T. J., Plancherel, Y., and González, A.G. (2021). A decade of progress in understanding cycles of trace elements and their isotopes in the oceans. *Chem. Geol.* 580, 120381.

33. 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. (2021). The 79°N Glacier cavity modulates subglacial iron export to the NE Greenland Shelf. *Nature Comms.* 12, 3030.
32. *Sieber, M., **Conway, T. M.**, de Souza, G. F., Hassler, C.S., Ellwood, M.J. & Vance, D. (2021). Isotopic fingerprinting of biogeochemical processes and iron sources in the iron-limited surface Southern Ocean. *Earth Planet. Sci. Lett*. 567, 116967.
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.* 118 (13), e2016078118.
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. *Chemi. 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. *Biogeosci.* 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* (egeotraces.org).

Graduate Student Theses and Dissertations Supervised

- **Bunnell, Z. B.** (2022). Elucidating the Sources Supplying Aerosol Iron, Zinc, and Cadmium to the Surface of the North Pacific Ocean with Stable Isotopes. *M.S. Thesis*. University of South Florida.
- **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. **Awarded ETHZ Silver Medal.**

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).

Analytical Skills and Field Experience

- Extensive experience with HR ICP-MS (13 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 (δ^{56}Fe, δ^{60}Ni, δ^{66}Zn, δ^{114}Cd) and radiogenic isotope ratios ($^{87}Sr/^{86}Sr$) 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 Southwest 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).

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

43. **Conway, T. M.** (2023). *New Insights for oceanic iron biogeochemistry from iron isotopes: 10+ years of the GEOTRACES Program.* BiCycles Seminar, University of Pennsylvania, Philadelphia (03.17.23).
42. **Conway, T. M.** (2023). *New Insights for oceanic iron biogeochemistry from iron isotopes: 10+ years of the GEOTRACES Program.* EOAS Seminar, Florida State University (01.13.23).
41. **Conway, T. M.** (2023). *How, why, and where does iron enter the oceans? (and why do we care?)*. Central Florida Chapter, American Institute of Chemical Engineers, Lakeland, Fl. (01.10.23).
40. *Tian, H.-A., van Manen, M., *Bunnell, Z. B., Laan, P., Jung, J., Hoon Lee, S., Kim, T.-W., Aoki, S., Reichart, G.-J., **Conway, T. M.**, and Middag. R. (2022). *Identification of sources of dissolved Fe in the Amundsen Sea, Antarctica: insights from Fe isotopic composition.* NIOZ OCS Seminar. (03.08.22).
39. Horner, T. J., Little, S. H., **Conway, T. M.**, Farmer, J. R., and Janssen, D. (2021). *Putting productivity proxies to the test with GEOTRACES data,* AGU Fall Meeting 2021. (12.15.21).
38. de Souza, G. F., Vance, D., #Sieber, M., **Conway, T. M.**, & Little, S. H. (2021). *Re-assessing the influence of water-column sulphide on the marine cadmium cycle.* Virtual Goldschmidt 2021. (07.07.21).
37. **Conway, T. M.** (2021). *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., Danieri, G., Bertrand, S., Kellerman, A., Marshall, M., Pryer, H., Ng, H. C., Roccanova, 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*). $\delta^{66}Zn$ and $\delta^{114}Cd$ 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 gulf stream 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 advised student, #denotes advised postdoc)*

44. Dick, K., **Conway, T. M.**, John, S. G., Resing, J. A., Sedwick, P., *Halbeisen, D., Sohst, B., Weiss, G., and Fitzsimmons, J. N. (2023). *Southern Ocean Hydrothermal Iron and Manganese Supply from the Pacific Antarctic Ridge.* Goldschmidt Conference 2023, Lyon, France (upcoming).
45. Fitzsimmons, J. N., and **Conway, T. M.** (2023). *A review of novel insights and future challenges provided by ocean iron isotope analyses.* Goldschmidt Conference 2023, Lyon, France (upcoming).
46. Fourquez, M., Janssen, D. J., **Conway, T. M.**, Cabanes, D., Ellwood, M. E., #Sieber, M., Trimborn, S., and Hassler, C. (2023). *Extreme variability in the bioavailability of iron in the Southern Ocean.* Goldschmidt Conference 2023, Lyon, France (upcoming).
47. Lanning, N. #Sieber, M., Steffen, J. N., Bian, X., Yang, S.-C., Weiss, G., German, C. R., Seewald, J. S., Jenkins, W. J., Hatta, M., Tagliabue, A., John, S. G., **Conway, T. M.**, and Fitzsimmons, J. N. (2023). *The role of shallow intraplate hydrothermal fluxes on the marine dissolved iron inventory and global primary production: a Kama'ehuakanaloa (Loihi) Seamount case study.* Goldschmidt Conference 2023, Lyon, France (upcoming).
48. *Tian, H.-A., van Manen, M., *Bunnell, Z. B., Jung, J., Kim, T.-W., **Conway, T. M.**, Middag. R., and Reichart, G.-J. (2023). *Isotopic insights for external iron sources and biogeochemical cycling in the Amundsen Sea Polynyas.* Goldschmidt Conference 2023, Lyon, France (upcoming).
49. *Hunt, H. R., Boiteau, R., Buck, K. N., Chappell, P. D., Hall, E., Hubbard, K. Knapp, A. N., Smith, C., Tamborski, J., and **Conway, T. M.** (2023). *Tracing riverine iron through dynamic estuarine systems to the West Florida Shelf.* ASLO Aquatic Sciences 2023, Mallorca, Spain (06.06.23).
50. Kurisu, M., Sakata, K., Nishioka, J., Obata, H., **Conway, T. M.**, Suzuki, K., Kashiwabara, T., and Takahashi, Y. (2023). *Source estimation of Fe in marine aerosols and surface seawater using Fe stable isotope ratios in the subarctic North Pacific*. 71st Annual Conference of the Mass Spectrometry Society of Japan, Osaka, Japan (05.15.23).
51. Ng, C. H., Hendry, K. R., Hawkings, J. R., Betrand, S., *Summers, B. A., #Sieber, M., **Conway, T. M.**, Freitas, F. S., Ward, J. P. J., Pryer, H. V., Wadham, J. L., and Arndt, S. (2023). *Benthic dissolved silicon and iron cycling at Patagonian glaciated fjord heads.* EGU Meeting, Vienna (04.27.23).
52. Kurisu, M., Sakata, K., Nishioka, J., Obata, H., **Conway, T. M.**, Suzuki, K., Kashiwabara, T., and Takahashi, Y. (2023). *Spatial distribution and seasonal variation of iron stable isotope ratios in aerosols in the subarctic North Pacific.* GEOTRACES Japan Symposium, Tokyo, Japan (03.09.23).
53. Hawkings, J., Pryer, H. V., **Conway, T. M.**, Shoenfelt, E., #Sieber, M., Beaton, A., Torres, R., Daneri,G., Sherrell, R. M., Roccanova, V., Bu, K., Hendry, K. R., Kellerman, A., Marshall, M, Häusserman, V., and Wadham, J. (2022). *The influence of glaciers on iron cycling and export across a latitudinal gradient in Chilean Patagonia*. AGU Fall Meeting, Chicago, USA (12.13.22).
54. Boiteau, R., Coffey, N., Rodriguez, M. C. A, Stuart, R., Mayali, X., Rolison, K., Koedooder, C., Zhang, F., Shaked, Y., **Conway, T. M.**, and #Toth, E. (2022). *The metallophore supply chain of metals to ocean ecosystems.* C-COMP Labile DOM Workshop, Athens GA, USA (09.20.22).
55. König, D., Tagliabue, A., Whitby, H., **Conway, T. M.**, Hamilton, D., and Ellwood. E (2022). *Impact of climate variability on Fe and δ^{56}Fe in the surface ocean.* Keynote, Challenger Conference 2022 (Challenger 150), London, UK (09.08.22).
56. de Souza, G. F., Vance, D., Eisenring, C., #Sieber, M., **Conway, T. M.**, and Little, S. H. (2022). *Identifying source and sinks of marine micronutrients: the confounding role of stoichiometric variability.* 12th International Symposium: Geochemistry of the Earth's Surface, Zürich, Switzerland (07.26.22).
57. **Conway, T. M.**, Boiteau, R. M., #Toth, E. R., *Bunnell, Z. B., #Sieber, M. (2022). *The state of play for using Fe isotopes as source/process tracers in aerosols and the surface ocean & WFS cruise potential*. West Florida Shelf Planning Workshop, USF (07.25.22).
58. Pesar. E., Elardo, S. M., Kamenov, G. D., and **Conway, T. M.** (2022). *Understanding the formation and evolution of Earth's mantle and core: Insights from elemental and stable isotope studies of natural samples, experiments, and theory*. Poster. Goldschmidt 2022, Hawaii, USA (07.13.22).
59. John, S. G., Kelly, R., Bian, X., Yang, S. C., Fu, F., Smith, M. I., Lanning, N. T., Liang, H., Pasquier, B., Seelen, E. A., Holzer, M., **Conway, T. M.**, Fitzsimmons, J. N., and Hutchins, D. (2022). *The*

biogeochemical balance which controls oceanic nickel cycling in the modern and past oceans. Goldschmidt 2022, Hawaii, USA (07.13.22).

60. *Halbeisen, D. J., Middag, R., and **Conway, T. M.** (2022). Nickel Isotopes in the Denmark Strait: A 'Rosetta Stone' of Global Oceanic Nickel Biogeochemistry. GEOTRACES Summer School, Alfred Wegener Institute, Bremerhaven, Germany (07.12.22).
61. #Toth, E. R., #Sieber, M., Sohst, B. M., König, D., Tagliabue, A., Sedwick, P. N., Boiteau, R. M., and **Conway, T. M.** (2022). *Examining seasonal variability in seawater iron isotopes from the Bermuda Atlantic Iron Time-series (BAIT).* Goldschmidt 2022, Hawaii, USA (07.11.22).
62. #Sieber, M., Lanning, N. T., Bullock, E., Kong, K. P., Lee, J.-M., Laubach, A., Bian, X., Yang, S.-C., Weiss, G., Hult, M., Henderson, P., Le Roy, E., Hatta, M., Moore, W. S., Charette, M. A., Lam, P. J., Fitzsimmons, J. N., John, S. G., and **Conway, T. M.** (2022). *Characterizing Fe sources on the Alaska Margin and tracing their influences through the North Pacific along the GEOTRACES GP15 Section.* Goldschmidt 2022, Hawaii, USA (07.11.22).
63. Bian, X., Yang, S.-C., Raad, R., Lanning, N. T., #Sieber, M., Fitzsimmons, J. N., **Conway, T. M.**, and John, S. G. (2022). *Towards a better understanding of nickel cycling in the modern ocean: development of an automated chromatography method for Ni isotope analysis and the generation of a GEOTRACES Ni isotope dataset in the Pacific Ocean.* Poster. Goldschmidt 2022, Hawaii, USA (07.11.22).
64. Hawkings, J. R., Sherrell, R., **Conway, T. M.**, Shoenfelt Troein, E., Hendry, K., #Sieber, M., Beaton, A., Torres, R., Danieri, G., Bertrand, S., Kellerman, A., Marshall, M., Pryer, H., Ng, H. C., Roccanova, J., Bu, K., Benning, L. G., Spencer, R. G. M., Wadham, J. (2022). *The influence of glacier cover on iron and manganese cycling in Patagonian fjords.* Maritime Glaciers Symposium, Juneau, USA. (06.22.22).
65. *Tian, H.-A., van Manen, M., *Bunnell, Z. B., Jung, J., Hoon Lee, S., Kim, T.-W., Reichart, G.-J., **Conway, T. M.**, and Middag. R. (2022) *Dissolved Fe isotopic compositions in the Amundsen Sea Polynyas, Antarctica: insights for external sources and biogeochemical processes.* Poster and Talk. NIOZ Days, NIOZ, Texel, Netherlands (06.01.22).
66. König, D., Hamilton, D. H., **Conway, T. M.**, and Tagliabue, A. (2022). *Surface ocean biogeochemistry regulates the impact of anthropogenic aerosol Fe deposition on iron and iron isotopes in the North Pacific.* EGU Meeting 2022, Vienna (05.23.22).
67. *Tian, H.-A., van Manen, M., *Bunnell, Z. B., Jung, J., Hoon Lee, S., Kim, T.-W., Reichart, G.-J., **Conway, T. M.**, and Middag. R. (2022). *Dissolved Fe isotopic compositions in the Amundsen Sea Polynyas, Antarctica: insights for external sources and biogeochemical processes*. Poster. NWO Polar Symposium, The Hague, Netherlands (05.19.22).
68. **Conway, T. M.**, and many GP15 scientists. (2022). *A summary of the GP15 margin working group*. GP15 Data Synthesis Workshop, Old Dominion University (03.14.22).
69. Bian, X., Yang, S.-C., Raad, R., Lanning, N. T., #Sieber, M., Fitzsimmons, J. N., **Conway, T. M.**, and John, S. G. (2022). *Biogeochemical cycling of nickel in the Pacific Ocean based on seawater Ni isotopes.* Virtual Ocean Sciences Meeting (02.28.22).
70. John, S. G., Kelly, R., Bian, X., Yang, S. C., Fu, F., Smith, M. I., Lanning, N. T., Liang, H., Pasquier, B., Seelen, E. A., Holzer, M., **Conway, T. M.**, Fitzsimmons, J. N., and Hutchins, D. (2022). *The biogeochemical balance which controls oceanic nickel cycling in the modern and past oceans.* Virtual Ocean Sciences Meeting (02.28.22).
71. Lanning, N. T., #Sieber., M, *Halbeisen, D., Weiss, G., Bian, X., Yang, S.-C., German, C. R., Jenkins, W. J., Hatta, M., John, S. G., **Conway, T. M.**, and Fitzsimmons, J. F. (2022). *The cycling of dissolved iron, iron isotopes, and manganese in the central Pacific Ocean: Insights from the U.S. GEOTRACES Pacific Meridional Transect (GP15)*. Virtual Ocean Sciences Meeting (02.28.22).
72. *Bunnell, Z. B., #Sieber, M., Marsay, C. M., Buck, C. S., Landing, W. M., John, S. G., and **Conway, T. M.** (2021). *Tracing anthropogenic iron and zinc aerosols delivered to the surface of the North Pacific Ocean.* 38th Annual USF CMS Graduate Student Symposium. (02.18.22).
73. *Onak, C., Cullen, J. T., and **Conway, T. M.** (2022). *Iron Isotopes Across the Redox Boundary in the Anoxic Saanich Inlet.* Poster. 38th Annual USF CMS Graduate Student Symposium. (02.18.22).
74. *Hunt, H. #Sieber, M., *Summers, B. A., #Toth, E. R., de Jong, J., Middag, R., Achterberg, E. P., and **Conway, T. M.** (2022) *Deconvolving the Influence of Sedimentary Margin Sources, the Congo River Plume, and Water-Mass Mixing on the Distribution of Fe and its Isotopes in the Southeast Atlantic Ocean (GA08)*. Poster. 38th Annual USF CMS Graduate Student Symposium. (02.18.22). **Won 1st Prize.**
75. Hawkings, J., Skidmore, M. L., Priscu, J. C., Shoenfelt Troein, E., Davis, C., Christner, B., Kim, O.-S., #Sieber. M., **Conway, T. M.**, Gardner, C. B., Vick-Majors, T., J., Michaud, A. B., Tranter, M., Spencer, R. G., Benning, L.G., and SALSA Science Team (2021). *The ferric-ity ferrous wheel beneath the Antarctic Ice Sheet.* Poster. AGU Fall Meeting, New Orleans (12.13.21).

76. Pesar. E., Elardo, S. M., Kamenov, G. D., and **Conway, T. M.** (2021). *Insights into the Iron Isotope Composition of the Bulk Silicate Earth from Fresh and Fertile Mantle Peridotite Xenoliths from Tariat, Mongolia*. Poster, AGU Fall Meeting, New Orleans (12.15.21).
77. de Souza G. F., Vance, D., #Sieber, M., **Conway, T. M.**, and Little, S. H. (2021). *Re-assessing the influence of particle-hosted sulphide precipitation on the marine cadmium cycle*. Swiss Geoscience Meeting 2021, Geneva. (11.20.21)
78. Kurisu, M., Sakata, K., Obata, H., Nishioka, J., **Conway, T. M.**, Suzuki, K., Kashiwabara, T., and Takahashi, Y. (2021). *Estimation of Fe sources based on Fe isotope ratios and species of aerosols over the subarctic North Pacific.* The Oceanographic Society of Japan Fall Meeting 2021 (09.16.21).
79. Kurisu, M., Sakata, K., Obata, H., Nishioka, J., **Conway, T. M.**, Suzuki, K., Kashiwabara, T., and Takahashi, Y. (2021). *Estimation of Fe sources based on Fe isotope ratios and species of aerosols over the subarctic North Pacific.* Geochemical Society of Japan 68th Virtual Annual Conference (09.07.21).
80. **Conway, T. M.**, *Bunnell, Z. B., and #Sieber, M. (2021). *The state of play for using Fe isotopes as source tracers in aerosols and the surface ocean.* Iron at the Air-Sea Interface Workshop, Asheville NC. (07.26.21).
81. *Bunnell, Z. B., #Sieber, M., Marsay, C. M., Buck, C. S., Landing, W. M., John, S. G., and **Conway, T. M.** (2021). *Tracing anthropogenic iron aerosols delivered to the surface of the North Pacific Ocean.* Virtual Poster. Iron at the Air-Sea Interface Workshop, Asheville NC. (07.28.21).
82. Hawkings, J., Skidmore, M., Priscu, J., Davis, C., Christner, C., Kim, O.-S., #Sieber. M., **Conway, T. M.**, Gardner, C., Vick-Majors, T., Michaud, A., Tranter, M., Benning, L., and Spencer, R. (2021). *A ferrous wheel beneath the Antarctic Ice Sheet.* Virtual Goldschmidt 2021 (07.08.21).
83. Steffen, J. M., *Summers, B. A., **Conway, T. M.**, Thyng, K. M., Sherrell, R. M., German, C. R. & Fitzsimmons, J. N. (2021). *Using seawater iron isotopes to characterize the physicochemical speciation and scavenging rates of dissolved iron: Southern East Pacific Rise hydrothermal plume.* Virtual Goldschmidt 2021. (07.07.21).
84. Buckley, N., Black, E., Kenyon, J., Lanning, N., #Sieber, M., **Conway, T. M.**, Fitzsimmons, J. N., and Cutter, G. (2021). *Role of hydrogen sulfide in the removal of Zn and Cd in oxic to suboxic water column of the Pacific Ocean.* US GEOTRACES Virtual Seminar (06.14.21).
85. #Sieber, M., Lanning, N., Fitzsimmons, J. F., John, S. G., and **Conway, T. M.** (2021). *Fe and Fe isotopes* on *GP15.* US GEOTRACES Virtual Seminar (05.03.21).
86. **Conway, T. M.**, #Sieber, M., John, S. G., Lanning, N., and Fitzsimmons, J. F. (2021). *GP15 Zn isotope thoughts.* US GEOTRACES Virtual Seminar (04.12.21).
87. John, S. G., Bian, X., Yang, S.-C., Liang, H., Pasquier, B., Kelly, R., #Sieber, M., **Conway, T. M.**, Lanning, N., and Fitzsimmons, J. N. (2020). *GP15: Data! Models!* US GEOTRACES GP15 Virtual Seminar (11.05.20).
88. **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).
89. 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).
90. #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).
91. **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).
92. #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).
93. **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)
94. 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., Roccanova, 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).
95. 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).

96. **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).
97. 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).
98. 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).
99. 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).
100. 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).
101. 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).
102. *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).
103. 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).
104. 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).
105. 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).
106. 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 partioning and iron isotopes.* Ocean Sciences Meeting 2020, San Diego (02.17.20).
107. 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).
108. *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.**
109. 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).
110. 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).
111. #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).
112. **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 26.8ºN between Southeast Florida and the Bahamas.* Goldschmidt 2019 Barcelona. (08.21.19).
113. 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).

114. *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).
115. 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).
116. 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., Roccanova, 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).
117. *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).
118. 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).
119. 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).
120. *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).
121. *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).
122. 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).
123. 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).
124. 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).
125. 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).
126. *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).
127. 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).
128. 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).
129. *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).
130. **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).
131. *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).
132. *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).

133. **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).
134. 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).
135. 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).
136. *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).
137. 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).
138. **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).
139. 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).
140. *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).
141. **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).
142. Homoky, W. B., Weber, T., Berelson, W. M., **Conway, T. M.**, Henderson, G. M., van Hulten, 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).
143. *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).
144. **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).
145. 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).
146. **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).
147. **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).
148. 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).
149. 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).
150. 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).
151. 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).
152. 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).

153. **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).
154. 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).
155. 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).
156. **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).
157. 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).
158. 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).
159. de Baar, H. J. W., **Conway, T. M.**, Middag, R., Noble, A. E. and Wyatt, N.J. (2014). *GEOTRACES 3D distribution of accurate concentrations of dissolved trace metals manganese, iron, nickel, zinc, cadmium and lead in the Atlantic Ocean*. ASLO Ocean Sciences 2014, Honolulu. (02.26.14).
160. John, S. G and **Conway, T. M.** (2014). *The importance of scavenging in the marine biogeochemical cycling of zinc and zinc isotopes*. ASLO Ocean Sciences Meeting 2014, Honolulu. (02.26.14).
161. **Conway, T. M.** and John, S. G. (2013). *Sources of Fe to the North Atlantic: Insights from Fe Isotopes.* Goldschmidt Conference 2013, Florence. (08.28.13).
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174. **Conway, T. M.**, John, S. G. and Rosenberg, A. D. (2012). *Iron isotope profiles from the GEOTRACES North Atlantic Transect and a new method for simultaneous determination of multiple trace metal isotopes in seawater.* ASLO Ocean Sciences 2012, Salt Lake City. (02.20.12).

Workshop Participation

- *US GEOTRACES GP17-ANT Planning Workshop,* Norfolk, VA, USA, March 2023.
- *STING West Florida Shelf Cruises Workshop*, St Petersburg, FL, USA, July 2022.
- *US GEOTRACES GP17-OCE Planning Workshop,* Norfolk, VA, USA, March 2022.
- *US GEOTRACES GP15 Data Synthesis Workshop,* Norfolk, VA, USA, March 2022.
- *Iron at the Air-Sea Interface Workshop* (GEOTRACES and SOLAS)*,* Asheville, NC, USA, July 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.

Our work featured in popular media

- **NSF Research News** - *Unravelling the mysteries of trace elements in the oceans* https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=302987&WT.mc_id=USNSF_1
- **Public Library of Science** - *Conway et al. (2016) featured in PLOS curated ocean science collection of the decade https://collections.plos.org/collection/oceansciences/?utm_medium=email&utm_source=internal&utm_campaign=cfpcollections&utm_content=oceansciences*
- **GEOMAR News** - *Rapidly retreating glacier tongues change nutrient supply to the Ocean* https://www.geomar.de/en/news/article/schrumpfende-gletscher-veraendern-die-naehrstoffversorgung-des-ozeans
- **Deep Ocean Stewardship Initiative** March 2021 – *Weekly Deep Sea Roundup* https://mailchi.mp/df10e8a136d3/dosi-your-deep-sea-round-up-10116564
- **Yorkshire Post** March 2021 – *How a Yorkshire scientist's deep sea discovery may help protect the food chain.* https://www.yorkshirepost.co.uk/education/how-a-yorkshire-scientists-deep-sea-discovery-may-help-protect-the-food-chain-3174832
- **UPI Science News** March 2001 - *Rocks at bottom of deep ocean provide marine food chains with vital nutrients.* https://www.upi.com/Science_News/2021/03/27/britain-deep-ocean-nitrogen-food-web/2971616446438/
- **University of Leeds** March 2021 – *Seafloor nutrient vital in ocean food chain.* *http://www.leeds.ac.uk/news/article/4794/seafloor_nutrient_vital_in_global_food_chain*
- **GEOTRACES** March 2021 – *OCB Webinar March 23: Exploring the ocean iron cycle – biological drivers and novel isotopic methods* https://www.geotraces.org/exploring-the-ocean-iron-cycle-webinar-recording-available/
- **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

- **2023 The North Pacific Ocean a key actor for the zinc oceanic cycle**
  https://www.geotraces.org/the-north-pacific-ocean-a-key-actor-for-the-zinc-oceanic-cycle/
- **2023 Disentangling what controls cadmium in the Pacific Ocean**
  https://www.geotraces.org/what-controls-cadmium/
- **2023 Do you want to know more about iron and its isotopes? (Fitzsimmons and Conway, 2023).**
  https://www.geotraces.org/do-you-want-to-know-more-about-iron-and-its-isotopes-this-review-is-for-you/
- **2022 Debate on the dissolved nickel bioavailability in surface waters (John et al., 2022)**
  https://www.geotraces.org/debate-on-the-dissolved-nickel-bioavailibility-in-surface-waters/
- **2021 Pros/cons of 9 bioactive trace elements as tracers of modern and paleo-productivity (Horner et al., 2021)**
  https://www.geotraces.org/pros-and-cons-of-nine-bioactive-tei/
- **2021 Retreat of large marine-terminating glaciers may increase Fe supply (Krisch *et al*., 2021)**
  https://www.geotraces.org/glaciers-may-increase-fe-supply-to-surface-waters/
- **2021 Deep Sea lithogenic weathering a source of iron colloids for the ocean (Homoky *et al*., 2021)**
  https://www.geotraces.org/deep-sea-lithogenic/
- **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 our work

- https://www.usf.edu/marine-science/news/2023/southern-ocean-science-a-different-kind-of-sos.aspx
- https://www.usf.edu/marine-science/news/2023/cms-students-faculty-staff-had-a-blast-at-st-petersburg-science-festival.aspx
- https://www.usf.edu/marine-science/news/2023/how-to-pump-up-your-iron-hit-the-gym-eat-spinach-or-talk-to-tim-conway.aspx
- https://www.usf.edu/marine-science/news/2022/distinguishing-the-influence-of-sediments-and-water-mass-mixing-on-the-distribution-of-iron-in-the-southeast-atlantic-ocean.aspx
- https://www.usf.edu/marine-science/news/2022/solving-the-mysteries-of-nickel-an-oceanic-paradox.aspx
- https://www.usf.edu/marine-science/news/2022/on-the-hunt-where-do-phytoplankton-get-their-food-in-the-nutrient-starved-gulf.aspx
- https://www.usf.edu/marine-science/news/2021/pole-to-pole-for-trace-metal-science.aspx
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- https://www.usf.edu/marine-science/news/2021/cms-scientists-on-the-bottom-and-top-of-the-world.aspx
- https://www.usf.edu/marine-science/news/2021/deep-sea-sediments-fuel-the-oceans.aspx
- 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
- https://www.usf.edu/marine-science/news/2019/angari-trace-metals-cruise.aspx
- 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-steam-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