

Dr Tim M Conway

BA MSci PhD

Assistant Professor (Chemical Oceanography & Geochemistry)

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Education

BA & MSci Natural (Geological) Sciences – 1st Class Honours (October 2002 - June 2006).**Cambridge University, Department of Earth Sciences & St Catharine's College.**

Included independent masters project and 1 first-author publication.

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

*25 peer-reviewed articles (4 in Nature Journals, 1 in PNAS, 1 in Geology); 2 in review,**Assistant Professor (January 2017 to present)***College of Marine Science & School of Geosciences, 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 undergraduate & graduate students.

Analysis of trace metal isotopes on GEOTRACES GA02, GP02, GA08 and GP15 sections.

*NWO-supported Visiting Scientist (October 2017)***Royal Netherlands Institute for Sea Research (NIOZ), Netherlands (with Rob Middag).**Visiting for a project investigating dissolved $\delta^{56}\text{Fe}$ and $\delta^{66}\text{Zn}$ on the Dutch GA02 section.*Postdoctoral Researcher (July 2014 – December 2016)***Department of Earth Sciences, ETH Zürich, Switzerland (with 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). Supervision of a PhD student.*Postdoctoral Associate (October 2010 – June 2014)***Department of Earth & Ocean Sciences, University of South Carolina, USA (with 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 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 8 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 (Lecturer 2017-2019; Lead, Fall 2018).

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 Lecturer, 2018-2019).

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

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

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

MS 210 Undergraduate 'Oceans and Man' (Guest Lecturer - Ancient Oceans and Climate Change).

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

- Laboratory Technician USF CMS, Ryan Schlaiss (2019).
- Undergraduate Summer Intern, USF CMS, Ryan Schlaiss (2017, 2018).

Student Supervision, Teaching and Mentoring**2016 - Present. College of Marine Science, University of South Florida.**

- Main Professor – MS student, USF CMS, Brent Summers (2017-Present).
- Co-Supervisor – PhD student, NIOZ, Hung-An Tian (2017-Present).
- Co-Supervisor - PhD student, ETH Zurich, Switzerland, Matthias Sieber (2015-2019).
- Committee member – PhD student, USF CMS, Shannon Burns (2019-Present)
- Committee member – PhD student, USF CMS, Kara Vardman (2019-Present).
- Committee member – MS student, USF CMS, Catherine Prunella (2019-Present).
- Committee member – PhD Student, USF CMS, Imogen Browne (2019-Present).
- Committee member – MS student, USF CMS, Gabriel Browning (2018-Present).
- Committee member – PhD student, USF CMS, Travis Mellett (2018-Present).
- Committee member – PhD student, USF Geosciences, Sammy Tavaréz (2017-Present)
- Committee member – MS student, USF CMS, Adrienne Hollister (2018-2019).
- Committee member - PhD student, USF CMS, Cristina Subt (2017)
- Internal Examiner for Thesis Defense of Matthias Sieber (March 2019).
- External Examiner - PhD student, Australian National University, Aus. (Moneesha Samanta, 2017).
- External Examiner - PhD student, University of Otago, NZ. (Ejin George, 2017).
- Mentored 1 REU undergraduate student at ASLO Meeting, Hawaii (2017).
- Mentored 3 Graduate students at Goldschmidt Meetings (Paris, 2017; Boston, 2018).

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, Yokohoma (2016).

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

- Mentored 1 MS student, 2 PhD students and several undergraduates.
- Taught trace-metal/clean lab technique to technicians and students, mass spectrometry and techniques for determination of stable isotope ratios to students.

2006 – 2010. Undergraduate TA, Department of Earth Sciences, University of Cambridge

- 1st Year (Crystallography & Mineralogy, Plate Tectonics, Sedimentology and Earth Processes, Paleobiology and UK Geological History), 2nd Year (Structural and Seismic Geology, Hydrosphere and Climate, Carbonate & Clastic Sedimentology and Invertebrate Palaeontology), 3rd & 4th Year (Long Term Climate and Rapid Climate Change) Practical Classes and 1st and 2nd Year Field Courses.

Grants and Awards

- **Current:** 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'.* (USF \$374,080; 9/01/18-8/31/21).
- **Current:** PI on NSF Award OCE1737136 '*Collaborative Research: US GEOTRACES PMT: Trace-metal concentrations and stable isotopes in the North Pacific*' (USF \$400,703; 8/15/17-7/31/20).
- **Current:** Co-I and Overseas Ph.D. Supervisor on NWO Grant '*Iron limitation and viral lysis, phytoplankton caught between a rock and a hard place*' with PI Rob Middag (April 2017; 4 years; €598,402).

- **Current:** PI on USF 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 internal USF Equipment and Improvement Award with PI Kristen Buck ‘*Acquisition of a trace metal clean rosette sampling system*’ (USF \$54,351; May 2018).
- Antarctic Circumnavigation Expedition Grant (Co-Investigator) ‘*Tracing the iron cycle in Southern Ocean waters*’ with PI Michael Ellwood (March 2016; €260,000).
- NWO Visiting Scientist Travel Grant, Royal Netherlands Institute for Sea Research, 2017.
- Travel support to attend US GEOTRACES Pacific Planning Workshops at La Jolla (October 2016) and Old Dominion University, Norfolk (March 2018).
- Travel grant to attend GEOTRACES Workshop August 2016 (\$2000, accommodation & food).
- NSF Grant ‘*Trace-metal isotopes in Atlantic seawater and particles from GEOTRACES transects A03 and A10*’. OCE-1131387. (co-written with P.I. Seth G. John). 8/1/11-7/31/14. \$453,514.
- Funded at USC by NSF OCE-1131387 (\$453,514) and NSF OCE-1235150 (\$441,521), with both grants (P.I. Seth G. John) based on and supported by my original research and published methods.
- NERC Ph.D. Studentship at the British Antarctic Survey & University of Cambridge (2006-2010).
- Thomas Hobbs (1631) prize for academic performance in Geological Sciences at BA & MSci (St Catharine’s College, 2006).
- AGU Editors’ Citation for Excellence in Refereeing (2015) for *Global Biogeochemical Cycles*.

Academic Responsibilities and Community Service

- **Journal Reviewer** (51): *Analytica Chimica Acta* (1), *Analytical Letters* (3), *Biogeosciences* (1), *Chemical Geology* (1), *Chemosphere* (1), *Earth & Planetary Science Letters* (11), *Ecohydrology & Hydrobiology* (2), *Environmental Pollution* (2), *Frontiers in Marine Science* (1), *Geochimica et Cosmochimica Acta* (7), *Geology* (1), *Geophysical Research Letters* (1), *Global Biogeochemical Cycles* (5), *Journal Analytical Atomic Spectrometry* (1), *Marine Chemistry* (5), *Nature* (1), *Nature Communications* (1), *Nature Geoscience* (2), *PNAS* (1), *Precambrian Research* (1), *Science* (1), *Science of the Total Environment* (1).
- **Journal Editor:** PLOS One Academic Editor (1); Chemical Geology Lead Guest Editor (24) for Special Edition: “*Cycles of trace elements and isotopes in the ocean – GEOTRACES and beyond...*”
- **Conference Session Convenor** (6): 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).
- **Proposal Reviewer for geochemical / chemical oceanographic research 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* (2016-2018), *Austrian Science Fund* (2017-2018), *UK NERC* (2018).
- **Contributed** full section data of dissolved Cd, Zn and Fe concentrations and $\delta^{56}\text{Fe}$, $\delta^{66}\text{Zn}$ and $\delta^{114}\text{Cd}$ for the US GEOTRACES GA03 section, and dissolved Fe concentration and $\delta^{56}\text{Fe}$ for the GA10 section to the *GEOTRACES Intermediate Data Products 2014* and *2017*, and to *eGEOTRACES - Electronic Atlas of GEOTRACES Sections and animated 3D Scenes*.
- **USF Committee Assignments:** CMS Student and Faculty Rights and Responsibilities (2017), CMS Chemical Oceanography Search (2018), CMS Student Admissions (2019), CMS Annual Review (2019), CMS Integrated Marine Science Exam (2019).

Analytical Skills and Field Experience

- Extensive experience with ICP-MS (9 years with Element XR and Neptune Plus Multi-collector) for analysis of dissolved elemental concentrations (Cu, Cd, Co, Fe, Ni, Mn, Pb, Zn) and stable isotope ratios ($\delta^{56}\text{Fe}$, $\delta^{66}\text{Zn}$ and $\delta^{114}\text{Cd}$) in natural materials (aerosol dust, biological material, rain, rocks and seawater).
- ESI SeaFAST, microFAST and DX autosampler experience.
- 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.
- Demonstrated 1st and 2nd Year Undergraduate field courses for the University of Cambridge in Scotland and South West England (geological mapping, sediments, paleontology, structural geology, oil rocks).

- Research cruise experience: R/V Atlantic Explorer (June 2008; May 2019), R/V John Strickland (March 2017), R/V Angari (Chief Scientist; March 2019).

Publications (*Google Scholar as of 02/25/19: 936 citations, h-index 15, i10-index 19; * supervised student*)

1. *Sieber, M., **Conway, T. M.**, de Souza, G. F., Obata, H., Takano, S., Sohrin, Y., and Vance, D. (2019). Physical and biogeochemical controls on the distribution of dissolved cadmium and its isotopes in the Southwest Pacific Ocean. *Chemical Geology*. In Press.
2. 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). Oceanic residence times of a spectrum of elements based on Th supply. *Global Biogeochemical Cycles*. 32, 1294-1311.
3. **Conway, T. M.**, Palter, J. B., and de Souza, G. F. (2018). Gulf Stream rings as a source of iron to the North Atlantic subtropical gyre. *Nature Geoscience*. 11, 594-598.
4. Schlitzer *et al.* [including **Conway, T. M.**] (2018). The GEOTRACES Intermediate Data Product 2017. *Chemical Geology*. 493. 210-223.
5. Saito, M., Noble, A., Hawco, N., Twining, B. S., Ohnemus, D. C., John, S. G., 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 Atlantic Ocean. *Biogeosciences*. 4637-4662.
6. 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., and 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.
7. Fitzsimmons, J. N., **Conway, T. M.**, Lee, J.-M., Kayser, R., Thyng, K. M., John, S. G. and Boyle, E. A. (2016). Dissolved iron and iron isotopes in the Southeastern Pacific Ocean. *Glob. Biogeochem. Cycles*. 30 (10). 1372-1395.
8. Homoky, W.B., Weber, T. S., Berelson, W. M., **Conway, T. M.**, Henderson, G. M., van Hulten, M., Jeandel, C., Severmann, S., and Tagliabue, A. (2016). Quantifying trace element and isotope fluxes at the ocean-sediment boundary - a review. *Phil. Trans. Roy. Soc. A*. 374: 20160246.
9. **Conway, T. M.**, Hoffmann, L. J., Breitbarth, E., Strzepke, R. F. and Wolff, E. W. (2016). The growth response of two diatom species to atmospheric dust from the Last Glacial Maximum. *PLoS ONE*. 11(7): e0158553.
10. **Conway, T. M.**, John, S. G. and Lacan, F. (2016). Intercomparison of dissolved iron isotope profiles from reoccupation of three GEOTRACES stations in the Atlantic Ocean. *Mar. Chem.* 183. 50-61.
11. Middag, R., Sefarian, R., **Conway, T. M.**, John, S. G., Bruland, K. W. and 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.
12. 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., and Elderfield, H. (2015). Constraints on soluble aerosol Fe flux to the Southern Ocean at the Last Glacial Maximum. *Nat. Comm.* 6. 7850.
14. **Conway, T. M.** and 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.
15. Revels, B. N, Ohnemus, D. C., Lam, P. J., **Conway, T. M.**, and John, S. G. (2015). The isotopic signature and distribution of particulate iron in the North Atlantic Ocean. *D.S.R. II*. 116. 321-331.
16. Fitzsimmons, J. N., Carrasco, G. G., Wu, J., Roshan, S., Hatta, M., Measures C. I., **Conway T. M.**, John, S. G. and 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.
17. **Conway, T. M.** and 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.
18. **Conway, T. M.** and John, S. G. (2014). The biogeochemical cycling of zinc and zinc isotopes in the North Atlantic Ocean. *Glob. Biogeochem. Cycles*. 28 (10). 1111-1128.
19. **Conway, T. M.** and John, S. G. (2014). Quantification of dissolved iron sources to the North Atlantic Ocean. *Nature*. 511. 212-215.

20. Janssen, D., **Conway, T. M.**, John, S. G., Christian, J., Kramer, D. L., Pederson, T. F. and Cullen, J. T. (2014). An undocumented water column sink for cadmium in open ocean oxygen deficient zones. *Proc. Nat. Acad. Sci. USA*. 111 (19). 6888-6893.
21. John, S. G. and **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.
22. Homoky, W. B., John, S. G., **Conway T. M.**, and Mills, R. A. (2013). Distinct iron isotopic signatures and supply from marine sediment dissolution. *Nature Comm.* 4, 2143.
23. **Conway, T. M.**, Rosenberg, A. D., Adkins, J. F. and 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.
24. **Conway, T. M.** and 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.
25. Li, G., Chen, J., Ji, J., Yang, J., and **Conway, T. M.** (2009). Natural Sources of East Asian Dust. *Geology.* 37 (8). 727-730

Published Abstracts

1. **Conway, T. M.**, Shelley, R., Aguilar-Islas, A. M., Landing, W. M., Mahowald, N. M., and John, S. (2016). Tracing anthropogenic aerosol Fe sources in the North Atlantic Ocean using dissolved Fe isotope ratios. *AGU Fall Abstracts*. AGU, Fall General Assembly 2016, abstract #CT11A-04.
2. **Conway T. M.** and John S. G. (2013). Sources of Fe to the North Atlantic: Insights from Fe Isotopes. *Mineralogical Magazine*, 77(5) 912.
3. John, S.G., **Conway, T. M.**, Casciotti, K., Sigman D., Rafter P. and Marconi, D. (2013). Quantifying Nitrogen Fixation in the North Atlantic Using Paired Analyses of Cd and N Stable Isotopes. *Mineralogical Magazine*. 77(5), 1396.
4. Fitzsimmons, J. N., **Conway, T. M.**, John, S. G. and Boyle, E. A. (2013). Iron Isotopes in Seawater from the Southeast Pacific and North Atlantic Oceans. *Mineralogical Magazine*. 77(5), 1092.
5. Aquilina, A., Homoky, W. B., Hepburn, L. E., John, S. G., **Conway, T. M.**, Lyons, T. and Mills, R. A. (2013). Diagenetic Mobilisation of Fe and Mn in Hydrothermal Sediments. *Mineralogical Magazine*. 77(5), 604.
6. **Conway, T. M.**, John, S. G. and Rosenberg, A. D. (2012). Iron isotopes in the eastern North Atlantic. *Mineralogical Magazine*. 76, 1595.

Workshop Participation

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

Invited Conference Presentations and Seminars (* supervised student)

1. **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. (upcoming).
2. **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).
3. **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).

4. **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).
5. *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. (09.17).
6. **Conway, T. M.** (2017). *Gulf Stream Interactions and mesoscale trace element biogeochemistry*. Faculty Seminar, College of Marine Science, USF. (09.01.17)
7. **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.
8. **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).
9. **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).
10. 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).
11. **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).
12. **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).
13. **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).
14. **Conway, T. M.** (2016). *Chalk Talk*. School of Oceanography, University of Washington (05.17.16).
15. **Conway, T. M.** (2016). *Climate Change: lessons from the past*. Teaching Seminar, School of Oceanography, University of Washington (05.17.16).
16. **Conway, T. M.** (2016). *Enhancing our understanding of the marine iron cycle (the role of dust) using iron isotopes*. Research Seminar, School of Oceanography, University of Washington (05.16.16).
17. **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).
18. **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).
19. **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).
20. 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).
21. **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)
22. **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).
23. **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).
24. 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.
25. **Conway, T. M.** (2013) *Sources of Fe to the North Atlantic: Insights from Fe isotopes*. Seminar, Woods Hole Oceanographic Institute. (10.18.13).
26. **Conway, T. M.** (2013) *Sources of Fe to the North Atlantic: Insights from Fe isotopes*. Geobiology and
27. Oceanography Seminar, Department of Earth, Atmospheric and Planetary Sciences. Massachusetts Institute of Technology. (10.17.13).
28. **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).

29. **Conway, T. M.** (2012) *Marine Trace Metals - Motivation and Methodology*. CEMS Seminar, Center for Elemental Mass Spectrometry, University of South Carolina. (10.28.12).
30. **Conway, T. M.** (2012) *Iron Isotopes in the North Atlantic*. Geology Departmental Seminar, Earth and Ocean Sciences, University of South Carolina. (10.25.12).
31. **Conway, T. M.** (2009) *Aerosol Iron Solubility at the Last Glacial Maximum*. Departmental Seminar, Department of Chemistry, University of Otago, NZ. (08.09)
32. **Conway, T. M.** (2007). *The Iron Hypothesis - Insights from Dust in Antarctic Ice Cores*. Departmental Seminar, Department of Earth Sciences, University of Cambridge, UK

Contributed Conference and Workshop Presentations (* supervised student)

1. *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*. USF CMS Graduate Student Symposium.
2. 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 Conference 2018, Washington DC.
3. 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.
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