

Dr Tim M. Conway

B.A. M.Sci. Ph.D. F.G.S.

Assistant Professor (Chemical Oceanography & Geochemistry)

College of Marine Science & School of Geosciences, University of South Florida

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

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 bachelors mapping project and masters research project. 1 publication.

PhD Earth Sciences (NERC Studentship) (October 2006 - August 2010).**Cambridge University, Department of Earth Sciences & British Antarctic Survey, UK.***Title "Solubility and bioavailability of iron from dust in Antarctic ice cores".*Advisors: **Prof. Eric Wolff, Prof. Harry Elderfield, Dr Regine Röthlisberger.**

Included overseas research visits to University of Otago, Dunedin, NZ (phytoplankton culturing) and Old Dominion University, Norfolk, VA, USA (flow-injection analysis). 3 publications.

Research Experience and Employment

*21 peer-reviewed articles (3 in Nature Journals, 1 in PNAS, 1 in Geology).***Assistant Professor** (December 2016 to present)**College of Marine Science & School of Geosciences, University of South Florida.**Leading new research group in the trace metal biogeochemistry, focusing on $\delta^{56}\text{Fe}$, $\delta^{66}\text{Zn}$, $\delta^{114}\text{Cd}$, $\delta^{65}\text{Cu}$, $\delta^{60}\text{Ni}$. Established new Tampa Bay ICPMS facility (Element XR and Neptune Plus) at CMS. Graduate teaching and supervision of graduate and undergraduate students.**NWO-supported Visiting Scientist** (October 2017)**Royal Netherlands Institute for Sea Research (NIOZ), Netherlands (with Dr 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 Prof. Derek Vance).**Marine Isotope Geochemistry. Investigating dissolved $\delta^{56}\text{Fe}$, $\delta^{66}\text{Zn}$ and $\delta^{114}\text{Cd}$ variability in modern seawater in the Antarctic-Equatorial Pacific (Japanese GP19 Section). Supervision of a PhD student.**Postdoctoral Associate** (October 2010 – June 2014)**Department of Earth & Ocean Sciences, University of South Carolina, USA (with Dr Seth John).**Marine Trace Metal Geochemistry. Developing new methods for extraction and analysis of trace metals (Cd, Cu, Fe, Ni, Zn, Pb) in seawater for concentration and stable isotopic ratio measurement. Measurement of $\delta^{56}\text{Fe}$, $\delta^{66}\text{Zn}$ and $\delta^{114}\text{Cd}$ in various materials (aerosols, biological material, seawater), focused on the US and UK Atlantic GEOTRACES Transects (GA03 and GA10).**Graduate Intern** (June – August 2008)**Bermuda Institute of Ocean Sciences, Bermuda (with Dr Peter Sedwick).**

Cruise experience, planning and executing rain-seawater mixing experiments to investigate wet-deposition of iron to the Sargasso Sea 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

2016 - Present. College of Marine Science, University of South Florida.

OCE 6050 Graduate Chemical Oceanography (Spring Semester 2017).

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

MS210 Undergraduate 'Oceans and Man' (Guest Lecturer - Ancient Oceans and Climate Change).

Student Supervision, Teaching and Mentoring

2016 - Present. **College of Marine Science, University of South Florida.**

- Main Professor - PhD Student, USF CMS, Brent Summers (2017-Present).
- Supervisor - PhD student, ETH Zurich, Switzerland (Matthias Sieber; 2015-Present).
- Overseas Supervisor – PhD Student, NIOZ, Hung-An Tian (2017-Present).
- Committee member - PhD student, USF CMS, Cristina Subt (2017-Present).
- Committee member – PhD student, USF Geosciences, Sammy Tavaréz (2017-Present)
- Supervisor - Undergraduate Summer Intern, USF CMS, Ryan Schlaiss (Summer 2017).
- 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 1 Graduate student at Goldschmidt Meeting, Paris (2017).

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

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

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

- Mentored 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

- **Submitted:** Co-PI on NSF Antarctic Proposal '*Collaborative Research: Cold Water Corals as Recorders of Intruding Circumpolar Deep Water along the Antarctic Margin*' with PI Brad Rosenheim (submitted 05/23/17).
- **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:** NWO Visiting Scientist Travel Grant, Royal Netherlands Institute for Sea Research.
- **Current:** Co-I and Overseas Ph.D. Supervisor on Netherlands Organisation Research Proposal '*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 – 4/30/18**).
- **Current:** Co-I on Antarctic Circumnavigation Expedition Grant '*Tracing the iron cycle in Southern Ocean waters*' with PI Michael Ellwood (March 2016; €260,000).
- Travel support to attend US GEOTRACES Pacific Planning Workshop at La Jolla, October 2016.
- 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 John). 8/1/11-7/31/14. \$453,514.
- 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** (45): *Analytica Chimica Acta* (1), *Analytical Letters* (3), *Biogeosciences* (1), *Chemical Geology* (1), *Chemosphere* (1), *Earth & Planetary Science Letters* (8), *Ecohydrology & Hydrobiology* (2), *Environmental Pollution* (2), *Frontiers in Marine Science* (1), *Geochimica et Cosmochimica Acta* (6), *Geology* (1), *Geophysical Research Letters* (1), *Global Biogeochemical Cycles* (5), *Journal Analytical Atomic Spectrometry* (1), *Marine Chemistry* (5), *Nature* (1), *Nature Communications* (1), *Precambrian Research* (1), *Science* (1), *Science of the Total Environment* (1).
- **Journal Editor**: Lead Guest Editor for Chemical Geology Special Edition: "Cycles of trace elements and isotopes in the ocean – GEOTRACES and beyond..."
- **Proposal Reviewer for geochemical / chemical oceanographic research** (5): on behalf of: *Actions Thématiques Stratégiques Federal University of Toulouse, France* (2015), *German Research Foundation* (2015), *European Research Council Starting Grants* (2016), *US National Science Foundation* (2016-2017), *Austrian Science Fund* (2017).
- **Conference Session Convenor** (4):
 - Goldschmidt 2014 Sacramento: (16g) "Sources, Sinks and Stores: Integrating isotope and geochemical proxies for past and present surface processes, from elementary reactions to global change."
 - Goldschmidt 2016 Yokohama: (12d) "Oceanic cycling of trace elements using elemental, isotopic, and modeling approaches: Geotracers and beyond..."
 - Goldschmidt 2017 Paris: (10i) "GEOTRACES: trace elements and their isotopes in the oceans."
 - Ocean Sciences 2018 Portland: "Biogeochemical Processes Across Oxic-Anoxic Transitions."

Analytical Skills and Field Experience

- Extensive experience with ICP-MS (7 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 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 on R/V Atlantic Explorer as part of the FEAST-6 Cruise in June 2008, fieldwork at BIOS in July-August 2008 (included clean aerosol, seawater and rain collection for geochemical analysis) and R/V John Strickland as part of the Saanich Inlet program (Feb 2017).

Peer-Reviewed Publications (*Google Scholar as of 10/04/17: 574 citations, h-index 12, i10-index 13*)

1. 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*. (In Press).
2. 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.
3. 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.
4. 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.

5. **Conway, T. M.**, Hoffmann, L. J., Breitbarth, E., Strzepak, 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.
6. **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.
7. 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.
8. Mawji, E., *et al.* [135 authors, including **Conway, T. M.**] (2015). The GEOTRACES Intermediate Data Product 2014. *Mar. Chem.* 177 (1). 1-8.
9. **Conway, T. M.**, Wolff, E.W., R othlisberger, 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.
10. **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.
11. 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.
12. 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.
13. **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.
14. **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.
15. **Conway, T. M.** and John, S. G. (2014). Quantification of dissolved iron sources to the North Atlantic Ocean. *Nature*. 511. 212-215.
16. 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.
17. 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.
18. 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.
19. **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.
20. **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.
21. Li, G., Chen, J., Ji, J., Yang, J., and **Conway, T. M.** (2009). Natural Sources of East Asian Dust. *Geology*. 37 (8). 727-730
22. **Conway, T. M.** (2010). Solubility and Bioavailability of Iron from dust in Antarctic Ice Cores. PhD Thesis. University of Cambridge, Cambridge, UK.

Other Publications

- 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*.
- 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.*
- **Conway T. M.** and John S. G. (2013). Sources of Fe to the North Atlantic: Insights from Fe Isotopes. *Mineralogical Magazine*, 77(5) 912.
- 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.

- 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.
- 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.
- **Conway, T. M.**, John, S. G. and Rosenberg, A. D. (2012). Iron isotopes in the eastern North Atlantic. *Mineralogical Magazine*. 76, 1595.

Workshop Participation

- PAGES DICE Workshop, Santiago, Chile, January 2018 (upcoming).
- *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.

Invited Conference Presentations and Seminars

- **Conway, T. M.** (2018). Invited Talk, PAGES DICE workshop in Santiago, Chile (01.18; upcoming)
- **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; upcoming).
- 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).
- **Conway, T. M.** (2017). *Gulf Stream Interactions and mesoscale trace element biogeochemistry*. Faculty Seminar, College of Marine Science, USF. (09.01.17)
- **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.
- **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).
- **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).
- 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).
- **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).
- **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).
- **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).
- **Conway, T. M.** (2016). *Chalk Talk*. School of Oceanography, University of Washington (05.17.16).
- **Conway, T. M.** (2016). *Climate Change: lessons from the past*. Teaching Seminar, School of Oceanography, University of Washington (05.17.16).
- **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).

- **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).
- **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).
- **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).
- 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).
- **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)
- **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).
- **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).
- 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.
- **Conway, T. M.** (2013) *Sources of Fe to the North Atlantic: Insights from Fe isotopes.* Seminar, Woods Hole Oceanographic Institute. (10.18.13).
- **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).
- **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).
- **Conway, T. M.** (2012) *Marine Trace Metals - Motivation and Methodology.* CEMS Seminar, Center for Elemental Mass Spectrometry, University of South Carolina. (10.28.12).
- **Conway, T. M.** (2012) *Iron Isotopes In the North Atlantic.* Geology Departmental Seminar, Earth and Ocean Sciences, University of South Carolina. (10.25.12).
- **Conway, T. M.** (2009) *Aerosol Iron Solubility at the Last Glacial Maximum.* Departmental Seminar, Department of Chemistry, University of Otago, NZ. (08.09)
- **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

- **Conway, T. M.**, Sieber, M., Ellwood, M. E., Takano, S., Sohrin, Y., and Vance, D. (upcoming). 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, 2018, Portland, USA.
- 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 Conference, Paris.
- 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 Conference, Paris.
- 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 Conference, Paris.
- 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 Conference, Paris.
- **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 Meeting, Honolulu.
- 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 Meeting, Honolulu.

- 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.
- **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.
- 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.
- 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.
- **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.
- 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.
- **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.
- **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.
- 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.
- 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.
- 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.
- 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.
- **Conway, T. M.** and John, S. G. (2014). *Isotopic Insights on the Marine Zinc Cycle in the North Atlantic*. Goldschmidt 2014, Sacramento.
- **Conway, T. M.** and John, S. G. (2014). *Quantifying Sources of Iron to the Oceans Using Iron Isotopes*. Poster. Goldschmidt 2014, Sacramento.
- 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.
- 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.
- 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.
- 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.
- Rijkenberg, M. J. A., Middag, R., **Conway, T. M.** (2014). Bruland, K. W. and De Baar, H. J. W. *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.
- 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.
- 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.
- **Conway, T. M.** and John, S. G. (2013). *Sources of Fe to the North Atlantic: Insights from Fe Isotopes*. Goldschmidt Conference 2013, Florence.

- John, S.G., **Conway, T. M.***, (2013) 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*. Goldschmidt 2013, Florence. (*** presenter**)
- 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*. Goldschmidt 2013, Florence.
- 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 & Mn in Hydrothermal Sediments*. Goldschmidt 2013, Florence.
- John, S. G and **Conway, T. M.** (2013). *Scavenging is key to the marine biogeochemical cycling of Zn*. Poster. Gordon Research Conference in Chemical Oceanography, Maine.
- Fitzsimmons, J. N., Carrasco, G. C., Boyle, E. A., Bundy, R., Wu, J., **Conway, T. M.** and John, S. G. (2013). *Marine dissolved iron partitioning into soluble and colloidal phases: an updated view*. Poster. Gordon Research Conference in Chemical Oceanography, Maine.
- **Conway, T. M.**, John, S. G. and Rosenberg, A. D. (2013). *Iron Isotopes from the NAZT*. GEOTRACES Data Workshop. Old Dominion University, Norfolk.
- Fitzsimmons, J. N., Wu, J., Boyle, E. A., Carrasco, G. G., Bundy, R., **Conway, T. M.** and John, S.G. (2013). *Dissolved iron size partitioning into soluble and colloidal phases: Concentration, ligands, and isotopes*. GEOTRACES Data Workshop. Old Dominion University, Norfolk.
- John, S. G., **Conway, T. M.**, Rosenberg A. D., and the US GEOTRACES N Sampling Team. (2013). *US GEOTRACES NAZT $\delta^{114}\text{Cd}$ and $\delta^{66}\text{Zn}$...and $\delta^{15}\text{N}$* . GEOTRACES Data Workshop. Old Dominion University, Norfolk.
- John, S. G., Wasson, A., Hodierne, C., **Conway, T. M.**, King, A., Hutchins, D., Adkins, J.F. and Boyle, E.A. (2012). *The biological fractionation of Fe isotopes*. AGU 2012, San Francisco.
- **Conway, T. M.**, John, S. G. and Rosenberg, A. D. (2012). *Fe Isotopes In the North Atlantic (Preliminary Results from GA03)*. GEOTRACES workshop - stable isotopes of biologically important trace metals. Imperial College, London.
- Homoky, W. B., Mills, R. A., John, S. G. and **Conway, T. M.** (2012). *A closer look at Fe isotopes during early diagenesis*. GEOTRACES workshop - stable isotopes of biologically important trace metals. Imperial College, London.
- **Conway, T. M.**, John, S. G. and Rosenberg, A. D. (2012). *Dissolved $\delta^{56}\text{Fe}$ in the Eastern North Atlantic (from the GEOTRACES A03 Transect)*. Goldschmidt 2012, Montreal.
- **Conway, T. M.**, John, S. G. and Rosenberg, A. D. (2012). *Preliminary iron isotope results from the GEOTRACES A03 (North Atlantic) transect & a new method for simultaneous determination of $\delta^{56}\text{Fe}$, $\epsilon^{114}\text{Cd}$ and $\delta^{66}\text{Zn}$ ratios in seawater*. ASLO Ocean Sciences 2012, Salt Lake City.