

Sulfur Cycle Symposium – Poster Session

- 1. Environmental controls on elemental sulfur production by *Thiomicrospira thermophila* using the Sox multi-enzyme pathway.** J. Houghton and D. Fike. Earth and Planetary Sciences, Washington University, St. Louis, MO.
- 2. In situ sulfate reduction rates from natural sulfur isotopes in recent marine sediments?** Marc Alperin¹, Andrew Masterson², William Berelson³ and David Johnston². ¹ University of North Carolina at Chapel Hill, ² Harvard University, ³ University of Southern California.
- 3. Multiple S isotope signatures in Aarhus Bay sediments: linking sediment profiles, rate estimates and experimental calibrations.** Andrew Masterson¹, Marc Alperin², Gail Arnold³, Will Berelson⁴ and David Johnston¹. ¹ Harvard University, ² UNC Chapel Hill, ³ University of Texas, El Paso, ⁴ University of Southern California.
- 4. Tracking sulfur Intermediates in cell cultures and nature.** Derek A Smith, Alex Sessions, Nathan Dalleska and Victoria Orphan. Division of Geological and Planetary Sciences, California Institute of Technology.
- 5. Microbial Fe-S-As cycling in a shallow-sea hydrothermal system.** Guang-Sin Lu and Jan Amend. Department of Earth Sciences, University of Southern California.
- 6. Two mechanisms to generate sulfur isotope MIF signals.** Andrew Whitehill and Shuhei Ono. Earth, Atmospheric and Planetary Sciences, MIT.
- 7. Sulfur isotope composition of intermediate metabolites of the dissimilatory sulfate reduction pathway.** Min Sub Sim, Guillaume Paris, Jess F. Adkins, Victoria J. Orphan, and Alex L. Sessions. Division of Geological and Planetary Sciences, California Institute of Technology.
- 8. Sulfur cycling dynamics in three coastal ponds: Exploring the potential for storm induced changes in sulfate levels and effects on sulfur isotope geochemistry.** Maya Gomes and David Johnston. Department of Earth and Planetary Sciences, Harvard University.
- 9. Massive Volcanism, Evaporite Deposition and the Chemical Evolution of the Cretaceous Ocean.** Gomes M., Mills J., Kristall B., Sageman B., Jacobson A. and Hurtgen M. Department of Earth and Planetary Sciences, Northwestern University.
- 10. Seawater SO₄ and the global alkalinity balance - the role of redox in the CO₂-thermostat.** John A. Higgins. Department of Geosciences, Princeton University.
- 11. Neoproterozoic carbonate-associated sulfate record from the Campbellrand platform, South Africa.** G. Paris¹, J.F. Adkins¹, A.L. Sessions¹, Samuel M. Webb², and W.W. Fischer¹. ¹ Division of Geological and Planetary Sciences, California Institute of Technology, Pasadena, CA 91125, USA. ² Stanford Synchrotron Radiation Lightsource, Menlo Park, CA 94025, USA.
- 12. Sulfur species as key reactants in C, O, and Fe cycling.** Druschel, G.K.¹, Kafantaris, F.A.¹, Crane, E.J.², Fike, D.A.³, and Schmitt-Kopplin, P.⁴. ¹ Indiana University Purdue University Indianapolis, ² Pomona College, ³ Washington University St. Louis, ⁴ Helmholtz Zentrum München.
- 13. Disentangling the web of sulfur metabolisms in Santa Barbara Basin sediments with high-resolution δ³⁴S and genomic profiles.** Morgan Reed Raven, Jess F. Adkins, David H. Case,

Stephannie Connon, Victoria J. Orphan and Alex L. Sessions. Division of Geological and Planetary Sciences, California Institute of Technology.

14. **Isotopic insights into the metabolism of sulfur disproportionation.** Emma Bertran and David T. Johnston. Department of Earth and Planetary Sciences, Harvard University.
15. **Compositional contrasts in sulfur metabolizing bacteria in consortia with ANME archaea.** Shawn E. McGlynn*, Mason Mackey[^], Andrea Thor[^], Grayson Chadwick*, Thomas J. Deerinck[^], Mark H. Ellisman[^], and Victoria J. Orphan*. * Division of Geological and Planetary Sciences, California Institute of Technology and [^] NCMIR, UC San Diego.
16. **Foraminiferal calcite as a novel recorder of the sulfur isotope composition of marine sulfate over the last 57 million years.** Victoria C. F. Rennie^{1*}, Guillaume Paris², Sigal Abramovich³, Alex Sessions², Jess F. Adkins², and Alexandra V. Turchyn¹. ¹ Department of Earth Sciences, University of Cambridge, Cambridge CB2 3EQ, UK, ² Dept. of Geology and Planetary Sciences, Caltech, Pasadena, CA, USA, ³ Dept. of Geological and Environmental Sciences, Ben-Gurion University of the Negev, Beer-Sheva, Israel
17. **Sulfur isotope partitioning in aqueous systems: Equilibrium and Oxidation.** Daniel L. Eldridge and James Farquhar. Department of Geology and ESSIC, University of Maryland, College Park, MD 20742
18. **Metaproteomic investigations of coupled biogeochemical cycling in Saanich Inlet.** Steven Hallam. Department of Microbiology & Immunology, University of British Columbia.
19. **Oxygen fugacity and reduction-oxidation chemistry in Earth's interior.** Maryjo Brounce¹, Elizabeth Cottrell², and Katherine Kelley³. ¹ California Institute of Technology, Pasadena CA 91125, USA, ² Department of Mineral Sciences, Smithsonian Institution, National Museum of Natural History, Washington DC 20560, USA, ³ Graduate School of Oceanography, University of Rhode Island, Narragansett Bay Campus, Narragansett RI 02882, USA.
20. **Sulfur and $\delta^{15}\text{N}$ in laminated sediments from the Mexican margin OMZ.** W. M. Berelson¹, C. Tams¹, N. Rollins¹ and G. Haug². ¹ University of Southern California, USA. ² ETH, Zurich, Switzerland.
21. **Iron mediated cryptic sulfur cycling inhibits methane production from iron-rich salt marsh sediments.** Jennifer V. Mills, Gilad Antler and Alexandra V. Turchyn, University of Cambridge.
22. **Unique isotope fingerprint during the anaerobic oxidation of methane by sulfate.** Gilad Antler¹, Alexandra V. Turchyn¹, Barak Herut² and Orit Sivan³. ¹ University of Cambridge, ² Limnological Survey of Israel, and ³ Ben Gurion University.
23. **Can ^{33}S and ^{36}S reveal clues for the end-Ordovician extinction?** Emma Hammarlund, U Southern Denmark.