

JEANINE L. ASH

Earth, Planetary, and Space Sciences • University of California, Los Angeles

Education

Ph.D., Geochemistry, UCLA	anticipated August 2017
Advisor: Edward D. Young	
M.S., Geochemistry, UCLA	2015
Advisor: Edward D. Young	
B.S., Earth Systems Geosciences, University of Arizona	2011
Advisors: Andrew S. Cohen, Peter W. Reiners	

Positions held

C-DEBI Postdoctoral Fellow at Rice University	anticipated September 2017
NSF Graduate Research Fellow, UCLA	2013-present
Intern, Shell International Exploration & Production	2015
Inorganic Geochemist (off/onshore), IODP Exp. 347	2013/2014
Lecturer, UCLA	2012-2014
Graduate Research and Teaching Assistant, UCLA	2011-2013
NSF Research Experience for Undergraduates Fellow, University of Akron	2009
Undergraduate Research Assistant, University of Arizona	2008-2011

Select Publications

Young, E.D., Kohl, I.E., Sherwood Lollar, B., Etiope, G., Rumble III, D., Li, S., Haghnegahdar, M.A., Schauble, E.A., McCain, K.A., Foustoukos, D.I., Sutcliffe, C., Warr, O., Ballentine, C.J., Onstott, T.C., Hosgormez, H., Neubeck, A., Marques, J.M., Pérez-Rodriguez, I., Rowe, A.R., LaRowe, D.E., Magnabosco, C., Yeung, L.Y., **Ash, J.L.**, and Bryndzia, L.T. "The relative abundances of resolved $^{12}\text{CH}_2\text{D}_2$ and $^{13}\text{CH}_3\text{D}$ and mechanisms controlling isotopic bond ordering in abiotic and biotic methane gases." *Geochimica et Cosmochimica Acta*, 203, 235-264. 2017.

Yeung, L.Y., Murray, L.T., **Ash, J.L.**, Young, E.D., Boering, K.A., Atlas, E.L., Schauffler, S.M., Lueb, R.A., Langenfelds, R.L., Krummel, P.B., Steele, L.P., and Eastham, S.D. "Isotopic ordering in atmospheric O_2 as a tracer of ozone photochemistry and the tropical atmosphere." *Journal of Geophysical Research-Atmospheres*, 127. 2016.

Yeung, L.Y.,* & **Ash, J.L.**,* and Young, E.D. "Biological signatures in clumped isotopes of O_2 ," *Science*, 348 (6233), 431-434. 2015. *denotes equal contributions

Yeung, L.Y., **Ash, J.L.**, and Young, E.D. "Rapid photochemical equilibration of isotopic bond ordering in O_2 ," *Journal of Geophysical Research: Atmospheres*, 119 (17), 10552-10566. 2014.

Other contributions as Expedition 347 Science Party Member

Jensen, J.B., Moros, M., Endler, R., and **Expedition 347 Scientists**. "The Bornholm Basin, southern Scandinavia: a complex history from Late Cretaceous structural developments to recent sedimentation." *Boreas*. 2016.

Dijkstra, N., Slomp, C.P., Behrends, T., and **Expedition 347 Scientists**. "Vivianite is a key sink for phosphorus in sediments of the Landsort Deep, an intermittently anoxic deep basin in the Baltic Sea." *Chemical Geology*, 438, 58-72. 2016.

Andr n, T., J rgensen, B.B., and Cotterill, C., and **Expedition 347 Scientists**. "Baltic Sea Paleoenvironment," *Proceedings of IODP and Expedition 347 Reports*, 347. 2015.

In review

Kotthoff, U., Groeneveld, J., **Ash, J.L.**, Fanget, A-S., Quintana Krupinski, N., Peyron, O., Stepanova, A., Warnock, J., Van Helmond, N.A.G.M., Passey, B.H., Clausen, O.R., Bennike, O., Andr n, E., Granoszewski, W., Andr n, T., Filipsson, H.L., Seidenkrantz, M-S., Slomp C.P., and Bauersachs, T. "Reconstructing Holocene temperature and salinity variations in the western Baltic Sea region: A multi-proxy comparison from the Little Belt (IOD Expedition 347, Site M0059)," *Biogeosciences Discussions*, MS# bg-2017-101. 2017.

Select Conference Proceedings

Ash, J.L., Egger, M., Kohl, I.E., Treude, T., Slomp, C.P., Cragg, B., Parkes, R.J., Rumble, D., and Young, E.D. "Tracing deep biosphere methane cycling with fully resolved $^{13}\text{CH}_3\text{D}$ and $^{12}\text{CH}_2\text{D}_2$." *Deep Carbon Observatory International Science Meeting*, St. Andrews, Scotland, 2017. Invited oral presentation.

Ash, J.L., Egger, M., Kohl, I.E., Rumble, D., Slomp, C.P., Treude, T., and Young, E.D. "Resolved $^{12}\text{CH}_2\text{D}_2$ and $^{13}\text{CH}_3\text{D}$ in CH_4 as Sensitive Indicators of Disequilibrium and Equilibrium during Microbial Methane Cycling." *AGU Fall Meeting*, San Francisco, CA, 2016. Poster.

Ash, J.L., Andr n, E., Andr n, T., Bauersachs, T., Bennike, O., Fanget, A-S., Groeneveld, J., Levin, N.E., Passey, B.H., Quintana-Krupinski, N., Seidenkrantz, M-S., Treude, T., and Young, E.D. "Using clumped isotope geochemistry to examine paleoenvironment and modern biogeochemistry in the Baltic Sea." *12th International Congress on Paleoceanography*, Utrecht, the Netherlands, 2016. Poster.

Ash, J.L., Yeung, L.Y., and Young, E.D. "Biological Influences on Isotopic Ordering in O_2 ," *Goldschmidt Geochemistry Conference*, Sacramento, CA, 2014. Oral presentation.

Ash, J.L., Cohen, A.S., Reiners, P.R., and Dettman, D.L. "Ostracode trace metal geochemistry from Lake Tanganyika, Africa: Towards the development of a lacustrine paleothermometer." *AGU Fall Meeting*, San Francisco, CA, 2011. Poster.