

Thursday, April 27, 2017

NEW TECHNOLOGIES AND TECHNIQUES: OTHER TECHNOLOGIES AND TECHNIQUES:
STABLE ISOTOPE TECHNIQUES
10:15 a.m. Arizona Ballroom A-C

Chairs: Nancy Merino
Mayuko Nakagawa

- 10:15 a.m. Sherwood Lollar B. * Li L. Wing B. A. Warr O. Ballentine C. J. Giunta T. McDermott J. M. M. Lollar G. S. Telling J.
[Novel Isotopic Discoveries on the Biogeochemistry of the Deep Earth and the Habitability of Planetary Subsurface Environments](#) [#3118]
Novel isotopic discoveries on the biogeochemistry of the deep Earth and the habitability of planetary subsurface environments.
- 10:30 a.m. Zheng X.-Y. * Beard B. L. Reddy T. R. Roden E. E. Johnson C. M.
[Tracing Biological and Abiological Processes in the Early Earth Using Silicon Isotopes](#) [#3211]
We present experimental results that constrain Si isotope exchange kinetics and fractionations in systems pertinent to the Precambrian ocean.
- 10:45 a.m. Nakagawa M. Alexis G. Julien M. Yamada K. Yoshida N.
[Relative Contributions Estimation of Metabolic Processes in Microbial Ecosystems Using Multiple Isotopic Analysis](#) [#3742]
In order to understand microbial activities, we investigate compound-specific and position-specific isotopic signatures of microbial ecosystems.
- 11:00 a.m. Naraoka H. *
[Organic Compound Distribution in Asteroidal Materials Revealed by Ultrahigh-Resolution Mass Spectrometry](#) [#3269]
The development of ultrahigh-resolution mass spectral analysis will allow for the improved identification of asteroidal organic compounds.