

Geological and Planetary Sciences

Session **N**

Room: B133 Baxter

1:00 - 1:20 PM	Jaden K. Olah Stanford University	Applications of Inverse Theory to Isotopic Data in Order to Elucidate Reaction Dynamics: Principles and Application to Simple Gas Phase Systems	John M. Eiler <i>Robert P. Sharp Professor of Geology and Geochemistry</i> Amy E. Hofmann <i>Research Scientist, JPL</i> Forrest McCann <i>Graduate Student in Geochemistry</i> Noam Lotem <i>Graduate Student in Geochemistry</i>
1:20 - 1:40 PM	Audrey Yin University of Virginia <i>Southern California Edison WAVE Fellow</i>	Constraining the Lithification Conditions for Martian Regolith Breccia Using Shock Recovery Experiments	Paul D. Asimow <i>Eleanor and John R. McMillan Professor of Geology and Geochemistry</i> Jinping Hu <i>Staff Scientist in Geology and Geochemistry</i>
1:40 - 2:00 PM	Holly L. Nerurker Espinoza University of St Andrews	Hypervelocity Impact Ionisation of Europa-Relevant Ice Grains for SUDA Data Interpretation of NASA's Europa Clipper Mission	Paul D. Asimow <i>Eleanor and John R. McMillan Professor of Geology and Geochemistry</i> Bryana Henderson <i>Scientist, JPL</i> Sankhabrata Chandra <i>Member of the Technical Staff, JPL</i>
2:00 - 2:20 PM	Lily P. Strange University of California, Santa Barbara <i>Center for Environmental Microbial Interactions (CEMI) WAVE Fellow</i>	Methane Mosaics: Architecture of ANME-SRB Mat Aggregates	Victoria J. Orphan <i>James Irvine Professor of Environmental Science and Geobiology</i> Daniel Utter <i>Postdoctoral Scholar Research Associate in Biology and Biological Engineering</i>
2:20 - 2:40 PM	Oliver T. Crofts University of Cambridge <i>Caltech-Cambridge Exchange</i>	Pulse Check: Biotic and Abiotic Drivers of the Birch Effect	Woodward W. Fischer <i>Professor of Geobiology</i>

2:40 - 2:50 PM	BREAK		
2:50 - 3:10 PM	Eric M. Pham University of California, San Diego	Understanding the Cloud-Aerosol Interactions in Stratocumulus Clouds Using the EDMF Framework	Tapio Schneider <i>Theodore Y. Wu Professor of Environmental Science and Engineering</i> Akshay Sridhar <i>Research Scientist in Environmental Science and Engineering</i> Anna B. Jaruga <i>Senior Research Scientist in the Global Environmental Center</i> Olivia Alcabes <i>Graduate Student in Environmental Science and Engineering</i> Sajjad Azimi <i>Staff Scientist in the Global Environmental Center</i>
3:10 - 3:30 PM	Claire Xu Brown University <i>Center for Evolutionary Science EVO-WAVE Fellow</i>	Examining the $\delta^{15}\text{N}$ Composition of Fungi and Lichen Amino Acids	Julia Tejada <i>Assistant Professor of Geobiology</i> Mattia Tagliavento <i>Postdoctoral Scholar Research Associate in Geochemistry</i>
3:30 - 3:50 PM	Alyssa H. Shin <i>The Associates SURF Fellow</i>	Evaluating the Ecological Utility of Bulk Oxygen Isotopes in Western Amazonian Mammal Enamel	Julia Tejada <i>Assistant Professor of Geobiology</i> Joshua S. Anadu <i>Graduate Student in Geobiology</i>
3:50 - 4:10 PM	Sadik O. Görgü <i>Saul and Joan Cogen Memorial SURF Fellow</i>	A Quality Mesh of the Global Ocean for Simulations of the Overturning Circulation	Jörn Callies <i>Professor of Oceanography and Environmental Science</i> Henry Peterson <i>Graduate Student in Environmental Science and Engineering</i>
4:10 - 4:30 PM	Sanskriti Shindadkar University of California, Los Angeles	Modeling Methane Flux for Long-term Organic Carbon Sequestration	Alex L. Sessions <i>Nico and Marilyn van Wingen Professor of Geobiology</i> Madison Dunitz <i>Graduate Student in Geobiology</i>