

Geological and Planetary Sciences

Session **O**

Room: 101 Schlinger

1:00 - 1:20 PM	Daphne B. Nea Pasadena City College	Developing Spectral Analysis Tools for WISER: Spectral Angle Mapper and Spectral Feature Fitting	Bethany L. Ehlmann <i>Professor of Planetary Science</i> Judy S. Adler <i>Operations Coordinator for IPAC</i> Joshua Garcia-Kimble <i>Schmidt Scholar</i>
1:20 - 1:40 PM	Avni Bansal <i>Mellon Mays SURF Fellow</i>	Constraints on the Orbital Parameters of Stellar Flybys of the Early Solar System	Konstantin Batygin <i>Professor of Planetary Science</i> Ian Brunton <i>Graduate Student in Planetary Science</i>
1:40 - 2:00 PM	Donglin Wu Yale University	Constraining Properties of Dust Formed in Wolf-Rayet Binary WR 112 Using Mid-infrared and Millimeter Observations	Konstantin Batygin <i>Professor of Planetary Science</i> Yinuo Han <i>Postdoctoral Scholar Research Associate in Planetary Science</i>
2:00 - 2:20 PM	Junyi Zhao University of Michigan - Ann Arbor	Constraining Grain Size Dependent Dynamics in AU Mic's Debris Disk: A Joint JWST and ALMA Study of the Vertical Structure	Konstantin Batygin <i>Professor of Planetary Science</i> Yinuo Han <i>Postdoctoral Scholar Research Associate in Planetary Science</i>
2:20 - 2:40 PM	Emilia R. Pelegano-Titmuss CUNY Hunter College <i>Resnick Sustainability Institute (RSI) WAVE Fellow</i>	A Geologic Map of Isla Tortuga: A Contribution to the Volcanic History of the Guaymas Basin, Gulf of California (Mexico)	Joann M. Stock <i>Professor of Geology and Geophysics</i> Adriana Piña-Paez <i>Graduate Student in Geology</i>
2:40 - 2:50 PM	BREAK		
2:50 - 3:10 PM	Emily Q. Yu <i>Hannah Bradley SURF Fellow</i>	Constraining the Organic Carbon Properties of Subsurface Sediment in the Yukon Delta	Michael P. Lamb <i>Professor of Geology</i> Yutian Ke <i>Postdoctoral Scholar Research Associate in Geochemistry</i>

3:10 - 3:30 PM	Natalie R. Homyk University of California, Berkeley	Flume Experiments on Cohesive Riverbank Width	Michael P. Lamb <i>Professor of Geology</i> Kimberly L. Miller <i>Laboratory Manager in Geology and Geochemistry</i> Tingan Li <i>Postdoctoral Scholar Research Associate in Geology</i>
3:30 - 3:50 PM	Yunhan Fang University of Michigan - Ann Arbor	Calcium Isotopes in Urine and Nail as a Tracer of Bone Health	François Tissot <i>Professor of Geochemistry; Investigator, Heritage Medical Research Institute</i> Theo J. Tacail <i>Postdoctoral Scholar Research Associate in Geochemistry</i> Rebecca J. Ryan <i>Postdoctoral Scholar Research Associate in Geochemistry</i>
3:50 - 4:10 PM	Wenjing Zhou University of Manchester	A Critical Review on Variation of Sweat Composition and How Sweat Calcium Affects Bone Health	François Tissot <i>Professor of Geochemistry; Investigator, Heritage Medical Research Institute</i> Theo J. Tacail <i>Postdoctoral Scholar Research Associate in Geochemistry</i>
4:10 - 4:30 PM	Cheng-an Hsieh National Taiwan University <i>BaBar SURF Fellow</i>	The Influence of Transport on Chemistry in the Middle Atmosphere of Venus	Yuk L. Yung <i>Professor of Planetary Science; Senior Research Scientist, JPL</i> Ting Juan Liao <i>Graduate Student in Planetary Science</i>
4:30 - 4:50 PM	Wenhao Lyu Nanjing University	A Study on the Responses of Ecosystems to Extreme Heatwaves Based on SIF Data	Yuk L. Yung <i>Professor of Planetary Science; Senior Research Scientist, JPL</i>