

PLANETARY SAMPLE SCIENCE SEMINAR SERIES



Hosted by CASA Moon (UNM), SServi
Central, UNM Grand Challenge, Institute
of Meteoritics, Lunar and Planetary
Institute, and RASSLE (JHUAPL)

Fall 2025 Schedule Wednesday 11AM (Mountain) Northrop Hall 340. Virtual attendance

link: <https://sservi.nasa.gov/casa-moon-seminar-series/>

Speaker	Date	Title/Theme
Chip Shearer (University of New Mexico)	September 3 2025	Welcome. Melts on the lunar surface. Impact or mantle melting?
Clive R Neal (University of Notre Dame)	September 10 2025	Lunar Resources: Enabling Assets or Futuristic Unobtainium?
Nick Dygert (University of Tennessee)	September 17 2025	Europium in the Lunar Crust
Laura Rodriguez (Lunar and Planetary Institute)	September 24 2025	Computational Approaches to Characterizing Organic Matter with Machine Learning and the Astrobiology Spectral Database
Tony Gargano (LPI)	October 1 2025	Constraints on the impactor flux to the Earth-Moon system from oxygen isotopes of the lunar regolith
Ann Ollila (LANL)	October 8 2025	Advancing Spectroscopy Instrumentation for Planetary Exploration from the Subsurface to the Sky
Josh Wimpenny (LLNL)	October 15 2025	Behavior of moderately volatile elements on the Moon
Adrian Brearley (UNM)	October 22 2025	Applications of Advanced Scanning Transmission Electron Microscopy Techniques to Understand Processes in Planetary Materials.
Lingzhi Sun (University of Hawaii)	October 29 2025	Remotely exploring the interior of the Moon
Thomas Kruijer (LLNL), and Katie Goss (UNM)	November 5 2025	Interpreting lunar zircon chronology at the nano-scale.
Mousumi Roy (UNM)	November 12 2025	Diffusion/Exchange Driven Equilibration During Melt-Wallrock Interaction on the Moon.
Scott Eckley (NASA JSC)	November 19 2025	Utilization of X-ray computed tomography during the preliminary examination of unopened Apollo drive tube samples 73001 and 73002.
William Bottke (SSWRI)	December 3 2025	New Views on Terrestrial Planet Formation and Early Lunar Bombardment