

Joint LPI & UTCT Workshop: Tomography of Planetary Materials

Monday, September 22 – Thursday, September 25, 2025

Monday	Tuesday	Wednesday	Thursday
Introduction & Fundamentals	Hands-on Training: XCT Data Visualization	Hands-on Training: XCT Data Analysis	Tomography Beyond X-rays
Breakfast in UTCT Conference Room Daily @ 8:45 AM			
(9:30) Overview of XCT in Planetary Sciences & UTCT	(9:15) Basics of XCT Visualization with ImageJ	(9:15) Overview of Quantification of XCT Data	(9:15) Tomography Beyond X-rays
(10:00) UTCT Facility Tour	(10:00) Dragonfly: Introduction & Volume Rendering	(10:00) Blob3D: Segmentation and Separation	(10:15) Dragonfly: Coordinated Neutron & X-ray Tomography (NXCT)
(11:00) Fundamentals of XCT			
Lunch on JGB Terrace (weather permitting)			Walk to Lunch at the Crown & Anchor Pub
(12:40) Walk to Astronomy Dept. for Dr. Denevi Seminar	(1:00) Dragonfly: Isosurfaces & Segmentation	(1:00) Blob3D: Separation (cont.) & Extraction	(1:00) Free Time (XCT & NXCT)
(2:15) Fundamentals of XCT (cont.)	(2:30) Dragonfly: Segmentation Visualization & Animations	(1:30) Quant3D	
(3:00) Setting up an XCT Experiment	(3:30) Dragonfly: Visualizing a Thin Section Plane	(2:00) New Frontiers in XCT	
(3:45 pm) Case Study 1: Martian Meteorites with XCT		(3:00) Free Time (XCT)	
(4:15 pm) Case Study 2: 3D Porosity with XCT & Xe gas			
Day Ends @ 4:45			Day Ends @ 3:00
Group Dinner: Meet in Hotel Lobby @ 6:30			Off to AUS Airport