

Keck Institute for Space Studies

List of Short Courses

2018

- [Exploring Once-in-a-Lifetime Targets](#)
(Monday, October 29, 2018)
- [Tidal Heating on Solar System Worlds](#)
(Monday, October 15, 2018)
- [Biodiversity Science and Remote Sensing Fundamentals](#)
(Monday, October 1, 2018)
- [The Whys and Hows of Future Cosmic Microwave Background \(CMB\) Exploration](#)
(Monday, March 19, 2018)
- [Mars Subsurface Exploration - Life and Resources in the Martian Subsurface](#)
(Monday, February 12, 2018)
- [Science, Source Modeling, and Data Analysis for the Space-Based Gravitational-Wave Observatory LISA](#)
(Tuesday, January 16, 2018)

2017

- [Accessing the Subsurface Oceans of Icy Worlds](#)
(Monday, October 9, 2017)
- [Next-Generation Approach for Detecting Climate-Carbon Feedbacks](#)
(Monday, September 18, 2017)
- [The Polar Ice Caps and Climate of Mars](#)
(Tuesday, August 8, 2017)
- [Comets - Connecting the Origins of Solar Systems to the Origins of Life](#)
(Monday, June 5, 2017)

2016

- [What is Exploration Telepresence - and How Can it Help Us Explore Planetary Surfaces of the Solar System?](#)
(Monday, October 3, 2016)
- [Mastering the Wave - The Whys and Hows of Exoplanet Imaging](#)
(Monday, August 22, 2016)
- [Satellite Communication with Laser Beams – The Next Wave](#)
(Monday, July 11, 2016)
- [In-Situ Resource Utilization \(ISRU\) on Mars](#)
(June 28th, 2016)

2015

- [Methane on Mars](#)
(December 7, 2015)
- [Fundamentals of Optical Frequency Comb Technology and Applications](#)
(November 2, 2015)
- [Exploring New Multi-Instrument Approaches to Observing Terrestrial Ecosystems and the Carbon Cycle from Space](#)
(October 5, 2015)
- [Using In-Situ Resources for 3D Additive Construction in Space](#)
(August 24, 2015)
- [The Search for Non-Aqueous Life](#)
(July 6-10, 2015)

2014

- [Star Formation \(top to bottom\)](#)
(November 3, 2014)
- [Exploring in the Interstellar Medium](#)
(September 8th, 2014)
- [Near-Earth Asteroids: The Next Critical Stepping Stones For Humanity In Space](#)
(August 11, 2014)
- [Probing the Interior of Venus with Innovative Seismological Techniques](#)
(June 2, 2014)
- [Multifunctional Energy Projecting Systems for Planetary Exploration](#)
(May 19, 2014)

2013

- [Airships: A New Horizon for Science](#)
(April 30 - May 3, 2013)

2011

- [Asteroid Retrieval Mission Study](#)
(September 27-30, 2011)