

Keck Institute for Space Studies

List of Technical Development Programs

Note: 2015 Technical Development Programs will be announced in October 2015

2014

- [Resilient Risk-Aware Autonomy for the Exploration of Uncertain and Extreme Environments](#)
- [PhotoSpec - Comprehensive Ground-Based Studies of Solar-Induced Chlorophyll Fluorescence - tracking seasonal, diurnal and fine spatial variability](#)

2013

- [In Situ Science and Instrumentation for Primitive Bodies: Constraining the Origin of the Jupiter Trojans by In Situ Measurement of Volatiles, Minerals, and Ices](#)
- [Next Generation UV Instrument Technologies](#)

2012

- [Developing Space-based Strategies to Monitor Megacity GHG Emissions](#)
- [Asteroid Retrieval](#)
- [Intensity Mapping of Carbon Monoxide from the Epoch of Reionization](#)
- [Mapping the Epoch of Reionization with C+ Line Tomography](#)
- [xTerramechanics: Integrated Simulation of Planetary Surface Missions](#)

2011

- [Mission Concepts for Accessing and Sampling High-Risk Terrain](#)
- [Future Missions to Titan: Scientific and Engineering Challenges](#)

2010

- [Single Photon Counting Detectors](#)
- [Monitoring Earth Surface Changes from Space](#)

2009

- [Robotic Exploration and Sampling of Mars](#)
- [Large Space Structures](#)
- [Coherent Arrays for Astronomy and Remote Sensing](#)