

Poster No.	Discipline	Last Name	First Name	Poster Title
A-01	Astrophysics and Space Science	David	Trevor	Young exoplanet discoveries from the K2 mission
A-02	Astrophysics and Space Science	Faramaz	Virginie	A recipe to bring icy bodies in the Habitable Zone: interactions between eccentric planets and debris disks
A-03	Astrophysics and Space Science	Millar-Blanchaer	Max	The WIRC+Pol Brown Dwarf Survey
A-04	Astrophysics and Space Science	Jasinski	Jamie	Sodium pick-up ions observed upstream of Mercury's magnetosphere
A-05	Astrophysics and Space Science	Majumdar	Liton	Chemical composition and physical properties of gases and volatiles in protostellar envelopes and Planet-forming Disks: A new era of JWST
A-06	Astrophysics and Space Science	Izard	Albert	Mock galaxy catalogs for future weak lensing missions
A-07	Astrophysics and Space Science	Seo	Youngmin	Probing the Structure of the Tr 14 & Carina I Region Using the Stratospheric Terahertz Observatory2
A-08	Astrophysics and Space Science	Simet	Melanie	Bias and Uncertainty in Weak Gravitational Lensing Measurements from Photometric Redshifts
A-09	Astrophysics and Space Science	Gleyzes	Jerome	Learning about gravity from future cosmological surveys
A-10	Astrophysics and Space Science	Heinrich	Chen	Does Planck 2015 polarization favor high redshift reionization?
A-11	Astrophysics and Space Science	Hensley	Brandon	A Unified Model of the Emission, Extinction, and Polarization of Interstellar Dust
A-12	Astrophysics and Space Science	Krause	Elisabeth	Covariances for WFIRST forecasts
A-13	Astrophysics and Space Science	Lenz	Daniel	New large-scale maps of the cosmic infrared background
A-14	Astrophysics and Space Science	Masters	Daniel	Measuring Galaxy Redshifts for Weak Lensing Cosmology
A-15	Astrophysics and Space Science	McCleary	Jacqueline	Cluster Weak Lensing with SuperBIT
A-16	Astrophysics and Space Science	Merson	Alexander	How Do Star-Forming Galaxies Populate The Cosmic Web?
A-17	Astrophysics and Space Science	McGranaghan	Ryan	New capabilities in space weather prediction: Novel approaches with machine learning
A-18	Astrophysics and Space Science	Chua	Alvin	ROMAN: Reduced-Order Modelling with Artificial Neurons

A-19	Astrophysics and Space Science	Simon	Joseph	Gravitational Wave Astrophysics with Pulsar Timing Arrays
EA-01	Earth Science A	Girona	Társilo	Satellite-based thermal precursors of volcanic eruptions
EA-02	Earth Science A	Gualandi	Adriano	Spatiotemporal characterization of tectonic signals from geodetic data: The 2010 El Mayor-Cucapah, Mw 7.2, post-seismic deformation
EA-03	Earth Science A	Handwerger	Alexander	A shift from drought to extreme rainfall drives a stable landslide to catastrophic failure
EA-04	Earth Science A	Luo	Yingdi	Investigate fault transient pattern change and its relation to large earthquakes
EA-05	Earth Science A	Milliner	Chris	Weighing Hurricane Harvey's Floodwaters using cGPS data
EA-06	Earth Science A	Caron	Lambert	Bayesian statistics of Glacial Isostatic Adjustment for GRACE and sea level
EA-07	Earth Science A	Van der Stocken	Tom	Simulating global-scale ocean dispersal and connectivity in mangroves
EA-08	Earth Science A	Farahmand	Alireza	Introducing a gridded wildfire risk model using NASA Satellite Observations in the United States
EA-09	Earth Science A	Chandanpurkar	Hrishikesh	Asymmetry in ENSO-Precipitation-Land storage relationships during persistent ENSO events
EA-10	Earth Science A	Emery	Charlotte	Improving discharge estimates of the RAPID river routing model with data assimilation
EA-11	Earth Science A	Massoud	Elias	Predicting Groundwater Depletion in the Central Valley, CA
EA-12	Earth Science A	Singh	Alka	Probabilistic drought recovery analysis using GRACE and long-term precipitation data
EA-13	Earth Science A	Dutta	Debsunder	Optimal Inverse Estimation of Ecosystem Parameters from Observations of Carbon and Energy Fluxes
EA-14	Earth Science A	Meyer	Victoria	Lidar detection of tropical forest degradation through simulations of selective logging disturbance
EA-15	Earth Science A	Yu	Yan	Dust sources in North Africa and Middle East determined from MISR satellite observation
EA-16	Earth Science A	Marshak	Charlie	Superpixel Change Detection for Synthetic Aperture Radar
EA-17	Earth Science A	Padulles	Ramon	The potential of Polarimetric Radio Occultations in the thermodynamic characterization of heavy precipitation
EB-01	Earth Science B	Delman	Andrew	Interannual Variability of Sea Level and Mesoscale Energy in the Indian and Pacific Oceans

EB-02	Earth Science B	Mauzole	Yackar	Mesoscale circulation and fronts dynamics in the California Current System.
EB-03	Earth Science B	Carroll	Dustin	Using an ocean biogeochemistry model (ECCO-Darwin) to quantify the physical and biological contributions to air-sea carbon flux during El Nino-Southern Oscillation events
EB-04	Earth Science B	Dehecq	Amaury	Towards an improved estimate of mountain glaciers contribution to sea level rise since the 1970s.
EB-05	Earth Science B	Nakayama	Yoshihiro	Origin of Circumpolar Deep Water intruding onto the Amundsen and Bellingshausen Sea continental shelves
EB-06	Earth Science B	Nilsson	Johan	Changes in Antarctic ice sheet surface elevation from a quarter-century of combined radar and laser altimetry
EB-07	Earth Science B	Serrano Paolo	Fernando	Constructing a 25-year record of Antarctic ice-shelf height change from satellite observations
EB-08	Earth Science B	Torres	Hector	Air-sea interactions driven by submesoscale motions and winds
EB-09	Earth Science B	Schiro	Kathleen	Sensitivity of tropical ascent, high clouds, and precipitation to warming and physical parameters in CESM
EB-10	Earth Science B	Stanfield	Ryan	Analysis of Estimated Convective Entrainment Rates Associated with Deep Convection using Aura CO and CloudSat Observations in Comparison with GEOS5 Simulations
EB-11	Earth Science B	Jaruga	Anna	Constraining bulk microphysics warm rain autoconversion rates with radar reflectivity and cloud droplet effective radius data
EB-12	Earth Science B	Gibson	Peter	Evaluating precipitation extremes in regional climate models relative to a 'cloud' of observational uncertainty
EB-13	Earth Science B	Elder	Clayton	Characterizing CH <sub>4</sub> Emissions in Arctic and Boreal Regions via AVIRIS-NG Airborne Hyperspectral Imagery
EB-14	Earth Science B	Barkhordarian	Armineh	Simultaneous regional detection of land-use changes and elevated GHG levels: the case of spring precipitation in tropical South America
EB-15	Earth Science B	Hakuba	Maria	Measuring Earth's Energy Imbalance from Space
EB-16	Earth Science B	Smalley	Mark	Essentials for realistic simulations of subtropical marine stratocumulus clouds
EB-17	Earth Science B	Utsumi	Nobuyuki	Warm Season Satellite Precipitation Biases for Different Cloud Types Over Western North Pacific
EB-18	Earth Science B	Savastano	Giorgio	Coupling Between the Earth's Ionosphere and Hydrosphere: The 2013 Atlantic Meteorological Event.
EB-19	Earth Science B	Gao	Ying	Multi-frequency Radiometer-based Soil Moisture Retrieval and Algorithm Parameterization Using In-situ Validation Sites
P-01	Planetary Science and Life Detection	Gicquel	Adeline	Modeling gas-dust plumes and an application to comet outbursts

P-02	Planetary Science and Life Detection	Giles	Rohini	Minor species in Jupiter's troposphere from high-resolution ground-based spectroscopy
P-03	Planetary Science and Life Detection	Lethuillier	Anthony	Looking for seasonal changes on the Churyumov-Gerasimenko nucleus with MIRO
P-04	Planetary Science and Life Detection	Tabataba-Vakili	Fachreddin	Turbulence in the Jovian polar atmosphere
P-05	Planetary Science and Life Detection	Sun	Vivian	Late-Stage Diagenetic Concretions in the Lacustrine Murray Formation, Gale Crater, Mars
P-06	Planetary Science and Life Detection	Williams	Nathan	Surface Morphologies of Arcadia Planitia as an Indicator of Past and Present Near-Surface Ice on Mars
P-07	Planetary Science and Life Detection	Hofgartner	Jason	The High Albedo of KBO Eris
P-08	Planetary Science and Life Detection	Howell	Samuel	Can Earth-like plate tectonics occur in the outer ice shells of icy satellites?
P-09	Planetary Science and Life Detection	Nordheim	Tom Andre	Preservation of potential biosignatures on Europa's surface
P-10	Planetary Science and Life Detection	Razzell Hollis	Joseph	Quantified DUV Raman Analysis for Life Detection
P-11	Planetary Science and Life Detection	Abrahamsson	Victor	Chemical analysis of lipophilic biomarkers for Ocean Worlds using carbon dioxide as a solvent
P-12	Planetary Science and Life Detection	Fayolle	Edith	Spectroscopy of radicals in outer Solar System ice analogues
P-13	Planetary Science and Life Detection	Fleury	Benjamin	Laboratory Simulation of the Photochemistry in Hot Exoplanet Atmospheres
P-14	Planetary Science and Life Detection	Paardekooper	Daniel	Chemical Evolution of Complex Organics in Ices From Interstellar Ice to Comets
P-15	Planetary Science and Life Detection	Urbaniak	Camilla	Characterization of microbial communities in harsh environments and their impact on future space missions.
P-16	Planetary Science and Life Detection	Ermakov	Anton	Power Laws of Gravity and Topography of Solar System Bodies
T-01	Technology, Instrumentation, and Engineering	Vinckier	Quentin	Lunar Flashlight CubeSat mission: a multi-band shortwave infrared (SWIR) laser reflectometer to map and quantify water ice on the lunar South Pole
T-02	Technology, Instrumentation, and Engineering	Eshelman	Evan	WATSON: An ultraviolet Raman and fluorescence spectrometer for subsurface organic detection on the Greenland ice sheet
T-03	Technology, Instrumentation, and Engineering	Heirwegh	Christopher	Development of the Elemental Quantification Capabilities of the Planetary Instrument for X-ray Lithochemistry Selected for Mars 2020
T-04	Technology, Instrumentation, and Engineering	Matthews	Christopher	Precision Radial Velocity at Palomar Mountain: PARVI and P3K

T-05	Technology, Instrumentation, and Engineering	Chouza Keil	Fernando	Tropospheric ozone lidar upgrade and automation at JPL Table Mountain Facility
T-06	Technology, Instrumentation, and Engineering	Nemchick	Deacon	A 90-102 GHz CMOS Based Pulsed-Echo Fourier Transform Spectrometer: Development of a Portable High-Resolution Millimeter Wave Gas Sensor
T-07	Technology, Instrumentation, and Engineering	Francis	Samuel	Optical link acquisition simulator for interspacecraft laser interferometers
T-08	Technology, Instrumentation, and Engineering	Krishnamoorthy	Siddharth	Infrasound as a geophysical probe for Venus
T-09	Technology, Instrumentation, and Engineering	Soja	Benedikt	Kalman filtering as a novel approach to determine celestial reference frames
T-10	Technology, Instrumentation, and Engineering	Curtis	Aaron	An Ice Screw End Effector for robotic ice climbing and sample collection
T-11	Technology, Instrumentation, and Engineering	Uckert	Kyle	Organic and Mineralogical Characterization of Subsurface Environments with a suite of in situ Instruments from the LEMUR Robotic Platform
T-12	Technology, Instrumentation, and Engineering	Marteau	Eloise	A level-set approach to model wheel-soil interaction for planetary rovers
T-13	Technology, Instrumentation, and Engineering	Higa	Shoya	Driving Energy Estimation for Mars Rovers Using a Newly Developed Single Wheel Testbed
T-14	Technology, Instrumentation, and Engineering	Kim	Yanghyo (Rod)	Infusion of CMOS for Radar and Spectroscopy
T-15	Technology, Instrumentation, and Engineering	Rahiminejad	Sofia	Low-loss Silicon MEMS Phase Shifter Operating at 550 GHz
T-16	Technology, Instrumentation, and Engineering	Roy	Richard	Differential Absorption Radar near 170 GHz for Remote Sensing of Boundary Layer Water Vapor
T-17	Technology, Instrumentation, and Engineering	Chakrabarty	Ayan	High temperature operation Kinetic Inductance Bolometers (KIBs) for outer solar system missions
T-18	Technology, Instrumentation, and Engineering	Korzh	Boris	Detecting single photons with 2 ps temporal resolution
T-19	Technology, Instrumentation, and Engineering	Kraus	Hannes	Let's Put Something New on that Spacecraft Boom - Quantum-Engineered Silicon Carbide Solid State Magnetometry
T-20	Technology, Instrumentation, and Engineering	Tallarida	Nicholas	Detection and Identification of Minerals and Organics via Fluorescence-Suppressed Raman Spectroscopy
T-21	Technology, Instrumentation, and Engineering	Ferreira Santos	Mauro Sergio	Simultaneous Analysis of Inorganic Cations and Amino Acids by Capillary Electrophoresis and Contactless Conductivity Detection for Astrobiology Studies
T-22	Technology, Instrumentation, and Engineering	Oberlin	Elizabeth	Qualification of Phoenix Lander Heritage Ion-Selective Electrodes for Applications to Icy World Exploration
T-23	Technology, Instrumentation, and Engineering	Olikara	Zubin	Direct optimization of many-revolution low-thrust transfers

T-25	Technology, Instrumentation, and Engineering	Koh	Dayung	Europa Orbit Family Catalog
T-26	Technology, Instrumentation, and Engineering	Eggl	Siegfried	Long-Term Asteroid Orbit Deflection Optimization