

Jupiter Trojan 2016
New Insights in Early Solar System Evolution

July 2-4, 2016
Conference Room, ISAS/JAXA, Sagamihara, JAPAN

Program

2nd July, 2016

DAY-1	JST (UT+9h) (#: WebEx)		
	09:30-18:00	<i>Registration</i>	
Day-1:AM1 Chair : Lykawka Yoshikawa	10:00-10:10	<i>Greetings and Logistics</i>	
	10:10-10:35	Kevin Walsh	The Grand Tack - Giant Planet Migration and the Terrestrial Planets
	10:35-11:00	Keiji Ohtsuki	Dynamical constraints on the mass of the largest body captured in Jupiter's Trojan swarm
	11:00-11:25	Patryk Sofia Lykawka	Dynamical History of Captured Jupiter Trojans and Neighbor Populations
	11:25-11:50	Sandra Siljestrom	Composition of dust particles collected in the inner coma of Comet 67P/Churyumov-Gerasimenko as measured by COSIMA onboard Rosetta
	11:50-13:30	<i>Lunch & Poster</i>	
Day-1:PM1 Chair : Bell Kawai	13:30-13:55	Naruhisa Takato	Taxonomical study of the origin of Jovian irregular satellites
	13:55-14:20	Michael Brown	New Observational Constraints on the Origins of Jupiter Trojans
	14:20-14:45	Fumi Yoshida	Small Jupiter Trojans survey with Hyper SuprimeCam/Subaru Telescope
	14:45-15:10	Michael Zolensky	Volatile-Rich Astromaterials - Analogues of Trojan Asteroid Lithologies
	15:10-15:35	François-Régis Orthous-Daunay	Characterization of soluble molecules in Murchison chondrite by high resolution Orbitrap mass spectrometry
	15:35-15:50	<i>Coffee Break</i>	
Day-1:PM2 Chair : Neveu Yano	15:50-16:15	Wataru Takahagi	Short peptide synthesis under Enceladus alkaline hydrothermal condition
	16:15-16:40	Yasunori Miura	Formation of carbon-bearing grains applied for life-like resources of Jupiter Trojan
	16:40-17:05	Ernesto Palomba #	In situ measurements of dust emission and sublimation in active asteroids
	17:05-17:30	Pierre Vernazza #	Interplanetary Dust Particles As Samples of Icy Asteroids
	17:30-17:55	Alessandro Morbidelli #	The Captures of Jupiter's Trojans
	17:55-18:15	Cyril Szopa	Gas Chromatography for the in situ analysis in space environment: heritage, present and future
	18:15-18:30	<i>Discussions</i>	
Reception	18:30-20:30	<i>Reception Party</i>	<i>At ISAS Cafeteria</i>

3rd July, 2016

DAY-2	JST (UT+9h) (#: WebEx)		
	9:00-18:00	<i>Registration</i>	
Day-2:AM1 Chair : Zolensky Yano	9:15-9:40	Julie Castillo-Rogez #	Geophysical Evolution of Trojan Asteroids
	9:40-10:05	Takahiro Hiroi #	Surface composition and space weathering of D-type asteroids
	10:05-10:30	Andy Rivkin #	Trojan Asteroid Voyager, Lander, and Rendezvous (TRAVLR): A New Frontiers Mission Concept
	10:30-10:55	Marc Neveu	Thermal evolution of Ceres and Kuiper belt objects: Insights into possible Trojan migration
	10:55-11:10	<i>Coffee Break</i>	
Day-2:AM2 Chair : Brown Iwata	11:10-11:35	Paul Abell	An overview of NASA's Asteroid Redirect Mission Concept
	11:35-12:00	James Bell	Lucy: A proposed NASA Discovery mission for the first up-close studies of the Jupiter Trojan asteroids
	12:00-12:25	James Bell	Trojan Tour and Rendezvous (TTR): A proposed NASA New Frontiers multiple-flyby and orbital mission to study the Jupiter Trojan asteroids
	12:25-13:30	<i>Lunch & Poster</i>	
Day-2:PM1 Chair : Iwata	13:30-13:55	Osamu Mori	Direct Exploration of Jovian Trojan Asteroid using Solar Power Sail-craft
	13:55-14:20	Stephan Ulamec	Lander Element for Jupiter Trojan Mission
Day-2:PM2 Chair : Okada	14:30-17:30	<i>Special Discussions</i>	<p>New insights in early solar system evolution by exploration of Jupiter Trojans and outer solar system bodies:</p> <p>Where and how is the Outer Solar System Exploration, especially represented by the Jupiter Trojan Mission - the theme of the symposium, is recognized and positioned in view of the international understanding and strategies in national agencies?</p> <ul style="list-style-type: none"> - Are those Jupiter Trojans we should go for understanding early solar system evolution? - Should we explore the outer solar system even if it takes a very long time? - Is that mandatory to return samples from outer solar system? - What are the roles of national space agencies in the era Mars and Moon are visited by private companies? - What are the next targets to Jupiter Trojans <p>Speakers (TBC): P. Abell, J. Bell, J.-P. Bibring #, M. Brown, N. Grand, J. Kawaguchi, S. Ulamec #, H. Yurimoto , ...</p>
	17:30-17:45	<i>Group Photo</i>	At the Lobby of Bldg-A

4th July, 2016

DAY-3	JST (UT+9h) (#: WebEx)		
	9:00-15:00	<i>Registration</i>	
Day-3:AM1 Chair : Loisel Hirai	9:15-9:40	Takahiro Iwata	A study of cruising-phase sciences using Solar Power Sail
	9:40-10:05	Ayako Matsuoka	Magnetic field experiment by the magnetometer onboard Solar Powered Sail spacecraft
	10:05-10:30	Reiko Nomura	Development of ultraslim magnetometers to discover the mechanism of the solar wind heating
	10:30-10:55	Celine Loisel	New generation of Intersatellite Link for TROJAN mission
	10:55-11:10	<i>Coffee Break</i>	
Day-3:AM2 Chair : Orthous-Daunay Matsuoka	11:10-11:35	Hajime Yano	Dual Mode Dust Detection by the Solar Power Sail for Hypervelocity Impacts in Interplanetary Space and Low Velocity Impacts around Jupiter Trojan Asteroids
	11:35-12:05	Takayuki Hirai	Advancement of PVDF Dust Detectors after the IKAROS-ALADDIN Lessons
	12:05-12:30	Tatsuaki Okada	Science experiments on a Jupiter Trojan asteroid in the Solar Powered Sail Mission
	12:30-13:30	<i>Lunch & Poster</i>	
Day-3:PM1 Chair : Grand Aoki	13:30-13:55	Yoko Kebukawa	In-situ investigation of Jupiter Trojans using high-resolution mass spectrometer
	13:55-14:20	Jun Aoki	Development of On-site Multi-turn Time-of-Flight Mass Spectrometry System for a Mission to Jupiter Trojans
	14:20-14:45	François-Régis Orthous-Daunay	A High Resolution Orbitrap Mass Analyzer for the Understanding of Organic Chemistry in the Solar System
	14:45-15:15	Pierre Bousquet #	Scientific instruments for Trojan body in-situ investigations
	15:15-15:50	<i>Wrap Up</i>	
Day-3:PM2	16:00-17:00	<i>Campus Tour</i>	

Poster Program

P-01	Chisato Okamoto	Impact strength of icy small bodies
P-02	Arnaud Buch	End-to-end performance of the future MOMA GC-MS instrument

Jupiter Trojan Asteroid Exploration Mission using Solar Power Sail

PS-01	Takanao Saiki	System Design of a Jupiter Trojan Explorer
PS-02	Jun Matsumoto	Power-Sail Design for the Jupiter Trojan Exploration Mission
PS-03	Nobukatsu Okuizumi	Recent Study on Deployment Structure and Mechanisms of Spin-Stabilized Solar Power Sail
PS-04	Kazutaka Nishiyama	Ion Engine System for the Solar Power Sail
PS-05	Yuki Takao	Lander System for the Trojan Asteroid Explorer and its Sample Return Scenario
PS-06	Hajime Yano	Overview of Scientific Investigations in Each Mission Phase of the Solar Power Sail
PS-07	Shuji Matsuura	Cosmic Infrared Background measurement with the SPS/EXZIT in cruising phase
PS-08	Jun Matsumoto	Concept of the Sub-surface Sampling Device and Its Demonstration
PS-09	Daisuke Yonetoku	Study of Emission Mechanism of Gamma-Ray Bursts Probed by Gamma-Ray Polarization with Solar Power Sail