

Planetary Exploration: Going Beyond!!
IPSA Workshop 2023
Physical Research Laboratory, Ahmedabad
20-21 March 2023

First Day: 20 March 2023

Inaugural Session (nanoSIMS Hall, Main Campus)		
9:00-9:05	Welcome - Dr. Jayesh Pabari	
9:05-9:45	Inauguration, interaction and introduction of participants - Prof. Anil Bhardwaj, Director, PRL	
9:45-10:00	PSDN Research Domains - Prof. D. Banerjee	
10:00-10:30	Space weather from planetary science perspective - Prof. D. Chakrabarty	
10:30-11:00	High Tea	
Session 1: Lunar/Martian Science and Exploration (nanoSIMS Hall, Main Campus)		
11:00-11:30	Probing planetary surface using satellite observations	S. Vijayan
11:30-12:00	Is lunar environment suitable for future survival?	Sanjay Mishra
12:00-12:30	Atmospheres of Terrestrial Planets	Prof. Varun Sheel
12:30-13:00	Exploring solar system objects through instrumentation	M. Shanmugam
13:00-13:30	Transfer to Thaltej Campus	
13:30-14:30	Lunch (Canteen, Thaltej Campus)	
Session 2: Experiments/Tutorial/Data Analysis		
14:30-16:00	Lab Visit: (NGMS, IDSL, Reflectance Lab, PETC, EPMA) 5 groups (Assembly at Ground Floor Foyer, Old Building, Thaltej Campus)	Ramakant Mahajan, S. Jitarwal, Abhishek J. Verma, P. Kalyana S. Reddy, Garima Arora
16:00-16:30	Tea and Snacks	
16:30-17:15	Hands-on electronics experiment (Team 1) Demonstration of mass spectrometer - Team 2 (First Floor, New Building, Thaltej Campus)	A. Patel and T. Ladiya / S. K. Goyal
17:15-18:00	Hands-on electronics experiment (Team 2) Demonstration of mass spectrometer (Team 1) (First Floor, New Building, Thaltej Campus)	A. Patel and T. Ladiya / S. K. Goyal

Second Day: 21 March 2023

Session 3: Venusian/Small Body Science and Exploration (nanoSIMS Hall, Main Campus)		
9:00-9:30	Does Venus have active volcanoes?	Rishitosh Sinha
9:30-10:00	Sniffing in Venusian atmosphere	Durga Prasad
10:00-10:30	Comets: Enigmatic Solar System bodies	Kinsuk Acharyya
10:30-11:00	Tea	
11:00-11:30	Bringing asteroid sample to lab	Dwijesh Ray
11:30-12:00	Inside out of meteorite	Ramakant Mahajan
12:00-12:30	How to probe interplanetary medium?	Jayesh Pabari
12:30-13:30	Lab Visit (NanoSIMS, MC-ICPMS)	Vikram Goyal, Yogita Kadlag
13:30-14:30	Lunch (Canteen, Main Campus)	
Session 4: Experiments/Tutorial/Data Analysis (nanoSIMS Hall, Main Campus)		
14:30-16:00	Demonstration of planetary remote sensing analysis	Rishitosh Sinha (Kimi K. B., Alka Rani, A. Chavan)
16:00-16:30	Tea	
16:30-17:30	Presentation by 10 groups, each 6 min (5 min + 1 min)	
17:30-18:00	Concluding Session	