



ASTRONAUTICAL
SOCIETY OF INDIA



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
&
6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Oral Presentations]

Planetary Science and Exploration (PSE)

Venue: APJAKB-104

“Institute Lecture Hall and Conference Complex”

Day – 1 (04th March 2025, Tuesday)

Time	Session/Event	Speaker
12:00 – 12:45	Technical Session – 1a “Moon” [Science from Recent Indian Moon Missions] Session Chair: Prof. Anil Bhardwaj	
12:00-12:15	Prospecting the Moon: Insights and opportunities from recent and upcoming missions	K. Durga Prasad PRL, Ahmedabad
12:15-12:25	Geological mapping of Chandrayaan-3 landing area: New insights into provenance of materials, crater chronology and origin of rocks	Rishitosh Kumar Sinha PRL, Ahmedabad
12:25-12:35	Chandrayaan-2 IIRS data processing and analysis in ISIS software: developing interface	Niveditha C V NISER, Bhubaneswar
12:35-12:45	Surface temperatures of the Moon derived from high-resolution IIRS on-board Chandrayaan-2: A case study on the Schrödinger Basin	Subhadyouti Bose PRL, Ahmedabad

Time	Session/Event	Speaker
12:45 – 13:30	Technical Session – 1b “Moon” [Lunar Geology] Session Chair: Dr. K. Durga Prasad	
12:45-13:00	Lunar Swirls: Resolving the Dilemma about their Age	Deepak Dhingra IIT Kanpur
13:00-13:10	Characterisation of Olivine Basalts of Western Oceanus Procellarum of Lunar nearside: An MGM approach	Nabamita Chaudhuri Pondicherry University
13:10-13:20	Deformation of the Gruithuisen region lava tube under compressional stress on the Moon	Kimi KB PRL, Ahmedabad
13:20-13:30	Analyzing a Unique Impact Melt Deposit Using its Distribution Trend	Satyendra Kumar IIT Kanpur



ASTRONAUTICAL
SOCIETY OF INDIA



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
&
6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Oral Presentations]

Planetary Science and Exploration (PSE)

Venue: APJAKB-104

“Institute Lecture Hall and Conference Complex”

Day – 1 (04th March 2025, Tuesday)

Time	Session/Event	Speaker
14:30 – 15:05	Technical Session – 2a <i>“Moon”</i> [Approaches & Techniques for Future Moon Missions] Session Chair: Prof. Deepak Dhingra	
14:30-14:45	Remote Sensing Techniques for Analysing Lunar Surface Composition: Method and Comparison	Megha Bhatt PRL, Ahmedabad
14:45-14:55	Design and Development of Electronics for PRATHIMA payload for ISRO – JAXA (LuPEX Rover) Mission	Chandan Kumar PRL, Ahmedabad
14:55-15:05	Design & Development of a Low-frequency Sweep Generator for Lunar Water-ice detection by measuring the Dielectric permittivity of the medium	Sushil Kumar PRL, Ahmedabad

Time	Session/Event	Speaker
15:05 - 16:00	Technical Session – 2b <i>“Moon”</i> [Approaches & Techniques for Future Moon Missions] Session Chair: Dr. Megha Bhatt	
15:05-15:15	In-situ Lunar Water-ice Detection and Quantification using Dielectric Spectroscopy: Modelling and Results	Sanjeev Kumar Mishra PRL, Ahmedabad
15:15-15:25	Illumination and Cold-Trapping Conditions in Polar Simple Craters on the Moon	Mishal K T IIT Kanpur
15:25-15:35	Automatic Lunar Control Points Identification	Hemant Kumar Lalwani SAC, Ahmedabad
15:35-16:00	Discussion	

Time	Session/Event	Speaker
16:30 – 18:30	Technical Session – 3 Poster Flash Presentations	The list is provided after the Oral Presentation Schedule.



ASTRONAUTICAL
SOCIETY OF INDIA



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
&
6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Oral Presentations]

Planetary Science and Exploration (PSE)

Venue: **APJAKB-104**

“Institute Lecture Hall and Conference Complex”

Day – 2 (05th March 2025, Wednesday)

Time	Session/Event	Speaker
14:30 – 15:15	Technical Session – 4a “Mars” [Mars Atmosphere/Ionosphere] Session Chair: Dr. Dwijesh Ray	
14:30 – 14:45	Turbulence in the Boundary Layer of Mars	Varun Sheel PRL, Ahmedabad
14:45-14:55	Exobase and Homopause Altitudes in the Martian Upper Atmosphere: Solar Cycle Variability and Response to the 2018 Global Dust Storm	N V Rao NARL, Gadanki
14:55-15:05	Mars nightside ionospheric response during the disappearing solar wind event: First results	Lot Ram IIT Roorkee
15:05-15:15	Variability and Factors Influencing Suprathermal Electron Exobase Altitudes in the Martian Ionosphere: Insights from MAVEN Observations	Pavan D Gramapurohit IIA, Bengaluru

Time	Session/Event	Speaker
15:15 – 16:00	Technical Session – 4b “Mars” [Mars Atmosphere/Ionosphere] Session Chair: Dr. N. V. Rao	
15:15-15:30	Trace Gases in the Lower Atmosphere of Mars: Effect of GDS 2018	S. A. Haider PRL, Ahmedabad
15:30-15:40	Magnetic Topology Dependence of Ionizing Electrons in the Martian Nightside Ionosphere	Arnob Sarkar NARL, Gadanki
15:40-15:50	A case study on the impact of interplanetary coronal mass ejection on the Martian O(1S) 557.7 nm dayglow emission using ExoMars TGO/NOMAD-UVIS observations: First Results	Aadarsh Raj Sharma IIT Roorkee
15:50-16:00	Disturbances in Plasma and Magnetic field in the Martian Ionosphere	Leelavathi Vulapati NARL, Gadanki



ASTRONAUTICAL
SOCIETY OF INDIA



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
&
6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Oral Presentations]

Planetary Science and Exploration (PSE)

Venue: APJAKB-104

“Institute Lecture Hall and Conference Complex”

Day – 2 (05th March 2025, Wednesday)

Time	Session/Event	Speaker
17:00 – 19:00	Technical Session – 5 “<i>Mars and Mercury</i>” [Martian & Mercury Geology] Session Chair: Prof. Varun Sheel and Dr. Diptiranjan Rout	
17:00-17:15	Apollinaris Mons region, Mars: Looking into signs of a possible northern ocean or the impact of melting ice	Vijayan S PRL, Ahmedabad
17:15-17:25	Hematite on Earth and Mars: Their biogenicity and implications for planetary exploration	Dwijesh Ray PRL, Ahmedabad
17:25-17:35	Fractured Stories: Unveiling Olivine Alteration Secrets from Mars to Earth	Aditya Das PRL, Ahmedabad
17:35-17:45	Belva Crater, Mars: Key to explore the final stage water activity in Jezero crater	Chinmay Shahi IIT Madras
17:45-17:55	The variety of hydrothermally-induced clays found in basaltic impact craters: potential sites for microbial activity on Mars	Vaishvi Tyagi IIT Roorkee
17:55-18:05	Is mantle convection still ongoing in Mercury?	Chhavi Jain Washington Uni., in St. Louis
18:05-18:30	Discussion	



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
 &
 6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Oral Presentations]

Planetary Science and Exploration (PSE)

Venue: APJAKB-104

“Institute Lecture Hall and Conference Complex”

Day – 3 (06th March 2025, Thursday)

Time	Session/Event	Speaker
14:00 – 14:45	Technical Session – 6a “Venus” [Venus Atmosphere/Ionosphere] Session Chair: Dr. Rajkumar Choudhary	
14:00 – 14:15	The response of the Venusian upper atmosphere during the passage of interplanetary coronal mass ejections	Dr. Diptiranjana Rout NARL, Gadanki
14:15-14:25	Unveiling the Venusian Ionosphere: A Photochemical Model Study	Satyandra Mohan Sharma PRL, Ahmedabad
14:25-14:35	Preliminary System study and requirements of Venus Cloud Monitoring Camera (VCMC) for future India’s mission to Venus	Harish Seth SAC, Ahmedabad
14:35-14:45	Venera-D: Mission for Comprehensive Study of Venus	Dmitry Gorinov IKI, Russia

14:45 – 15:30	Technical Session – 6b “Venus” [Venus Atmosphere/Ionosphere] Session Chair: Prof. Varun Sheel	
14:45-14:55	Exploring the Venus ionosphere using radio techniques and physics based ionospheric models	Rajkumar Choudhary VSSC, Thiruvananthapuram
14:55-15:05	The V0 Layer: A Persistent Feature of Venus’ Ionosphere	Keshav R Tripathi University of Tokyo
15:05-15:15	VIRAL Experiment for ISRO’s Venus Orbiter Mission: Scientific Concept	Dmitry Gorinov IKI, Russia
15:15-15:30	Discussion	



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
 &
 6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Oral Presentations]

Planetary Science and Exploration (PSE)

Venue: [APJAKB-104](#)

“Institute Lecture Hall and Conference Complex”

Day – 3 (06th March 2025, Thursday)

Time	Session/Event	Speaker
16:30 – 17:35	Technical Session – 7a <i>“Astrobiology and Astrochemistry”</i> Session Chair: Prof. D. Pallamraju	
16:30-16:45	Terrestrial Analogue Sites in India for Astrobiological Exploration	V. J. Rajesh IIST, Thiruvananthapuram
16:45-16:55	Electron impact Studies of Molecular Nitrogen and Meta-Stable Molecule N ₂ * in Planetary Atmospheres	Foram M Joshi CVM University
16:55-17:05	Nano-Scale Isotopic and Structural Analysis of Organic Phases in Carbonaceous Chondrites	Shreeya Natrajan PRL, Ahmedabad
17:05-17:15	Energetic processing of CO reveals new pathway for the formation of aromatic molecules at low temperature	Wafikul Khan PRL, Ahmedabad
17:15-17:35	Discussion	

Time	Session/Event	Speaker
17:35 – 18:30	Technical Session – 7b <i>“Earth as a Planet”</i> Session Chair: Prof. V. J. Rajesh	
17:35-17:50	Investigations of Space Weather effects on Earth’s Ionosphere - Thermosphere through Space-based measurements	D. Pallamraju PRL, Ahmedabad
17:50-18:00	Climatology of Ionospheric Irregularities during Ascending phase of 25th solar cycle near EIA’s Northern Crest	Bhuvnesh Brawar IIT Indore
18:00-18:10	Analysis of Shock waves on terrestrial planets	Akshita Bhardwaj IIT Roorkee
18:10-18:30	Discussion	



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
 &
 6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Oral Presentations]

Planetary Science and Exploration (PSE)

Venue: [APJAKB-104](#)

“Institute Lecture Hall and Conference Complex”

Day – 4 (07th March 2025, Friday)

Time	Session/Event	Speaker
11:00 – 12:05	Technical Session – 8a <i>“Minor Bodies, Outer Planets and Exoplanets”</i> Session Chair: Dr. Rishitosh Kumar Sinha	
11:00-11:15	High-Fidelity Exoplanet Templates Inspired by the Solar System Objects - A Case Study with Saturn and its Rings	Parvathy Menon IIA, Bengaluru
11:15-11:25	Modeling of Comet Volatile Production and Temperature Dynamics	Akshat Rawat PRL, Ahmedabad
11:25-11:35	Study of Molecular Composition in Various Comet Families	Kumar Venkataramani Independent Researcher
11:35-11:45	Photometric Analysis of Asteroid Ceres Using Observations from NASA Dawn VIR data	Sourav Mahato NISER, Bhubaneswar
11:45-11:55	Understanding the Role of Charged Particle Dynamics in Jupiter's Radio Emissions	Ayushi Srivastava IIG, Navi Mumbai
11:55-12:05	Discussion	

Time	Session/Event	Speaker
12:05-13:00	Technical Session – 8b <i>“Laboratory Studies, Meteorites and Analogues”</i> Session Chair: Dr. Dipak K Panda	
12:05-12:20	Micrometeorites from Central Indian Ocean Basin	Rudraswami N G NIO, Goa
12:20-12:30	Linking Kopargaon chondrite meteorite with S-type asteroid Itokawa, a combined spectral-geochemical approach	Aniket Kumar IIST, Thiruvananthapuram
12:30-12:40	Estimation of Mineral Abundance in Meteorites using Reflectance Spectroscopy	Soham Daulatrao Mali IIST, Thiruvananthapuram
12:40-12:50	Petrography of a stony-iron meteorite: Albin	Namrata Biswas IIT Roorkee
12:50-13:00	Thermobarometric Modeling and Textural analysis of Ureilite Meteorites	Siddhesh Jadhav University of Melbourne



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
 &
6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Oral Presentations]

Planetary Science and Exploration (PSE)

Venue: APJAKB-104

“Institute Lecture Hall and Conference Complex”

Day – 4 (07th March 2025, Friday)

Time	Session/Event	Speaker
14:00-14:55	Technical Session – 9a “Laboratory Studies, Meteorites and Analogues” Session Chair: Dr. Rudraswami N G	
14:00-14:15	Mineralogy and Isotopic study Ordinary Chondrite	Dipak K Panda PRL, Ahmedabad
14:15-14:25	Investigation of the timing of an asteroid impact using U-Th-Pb Chemical dating: a future planetary exploratory tool	Garima Arora PRL, Ahmedabad
14:25-14:35	41Ca and Irradiation: A Deviant Paradigm for Early Solar Irradiation	Ankit Prakash Singh PRL, Ahmedabad
14:35-14:45	Dust Trapping Around Planets Induced by Mean Motion Resonances	Aanchal Sahu PRL, Ahmedabad
14:45-14:55	Evaluating the role of atmospheric entry parameters in the textural evolution of micrometeorites	Vijay Pratap Singh NIO, Goa

Time	Session/Event	Speaker
14:55-16:00	Technical Session – 9b “Laboratory Studies, Meteorites and Analogues” Session Chair: Dr. Vijayan S.	
14:55-15:05	Unveiling Magma Evolution: Insights from Melt Inclusions in Enriched and Intermediate Shergottites	Varsha M Nair PRL, Ahmedabad
15:05-15:15	A study investigating organics in aubrites through high-resolution transmission electron microscopy	Neha PRL, Ahmedabad
15:15-15:25	Geochemical Fingerprinting of the Dhala Impact Structure	Rishi Vishwakarma IIT Roorkee
15:25-15:35	Olivine-ringwoodite transformation in Katol L6 Chondrite and its implications	Kishan Tiwari PRL, Ahmedabad
15:35-15:45	Understanding Thermophysical Properties of Asteroid Ceres	Soumik Bhattacharyya NISER, Bhubaneswar
15:45-16:00	Discussion	



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
 &
 6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Poster Flash Presentations]

Planetary Science and Exploration (PSE)

Venue: [APJAKB-104](#)

“Institute Lecture Hall and Conference Complex”

Day – 1 (04th March 2025, Tuesday)

Time	Session/Event	Speaker
16:30-18:30	Technical Session – 3a (06 Posters) <i>“Astrobiology and Astrochemistry”</i> Session Chairs: Dr. Varun Sheel, Dr. K. Durga Prasad and Prof. Deepak Dhingra, Dr. N. V. Rao	
16:30 –16:36	Immune response dynamics in Space: Understanding Vaccine efficacy for long duration space missions	Vidushi Agarwal IIT Roorkee
	Decoding Earth's Early Biosphere: Insights from the Proterozoic Stromatolites and their Implications for Astrobiology	Preeti Kumari IIST, Thiruvananthapuram
	From Star's Dust to Life: Exploring the formation of Bio-molecules in Interstellar Medium	Sunil Kumar. S HITS, Chennai
	SSPACE Astrobiology Payload (SAP)-2 Abstract	Thilakraj S Bhandary IIST, Thiruvananthapuram
	Influence of solar wind on life existing planets	Vishal Kasi HITS, Chennai
	Exploring the potential of M dwarf planets	Yashasvi C Patil HITS, Chennai



ASTRONAUTICAL
SOCIETY OF INDIA



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
 &
 6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Poster Flash Presentations]

Planetary Science and Exploration (PSE)

Venue: APJAKB-104

“Institute Lecture Hall and Conference Complex”

Day – 1 (04th March 2025, Tuesday)

Time	Session/Event	Speaker
	Technical Session – 3b (11 Posters) <i>“Earth as a Planet”</i>	
16:36-16:47	Aditya-L1 Mission: Multispectral Image Analysis of the Sun in Near-Ultraviolet Wavelengths	Aditya Ranjan Dalabehera Ravenshaw University, Cuttack
	Dynamics of Earth's Magnetopause During Solar Storms: Insights from In-Situ Measurements of NASA's MMS Mission	Amar Deep IIT, Indore
	Measurement of Atmospheric Dispersion at Hanle Site	Bestha Manjunath IIA, Bengaluru
	Low-frequency radio observations of powerful, geoeffective solar storms of May 2024 from Udaipur Solar Observatory: Exploring space weather candidates through radio measurements	Bhuwan Joshi PRL, Ahmedabad
	Solar Activity Links With Large Storms During 24 And 25 Sun-Cycle	Mahender Pal IKG PTU, Jalandhar
	Geomagnetic Storm (Dst< -100 nT) Interaction In Space Weather Near Earth During 2021-2024	Pawan Kumar IKG PTU, Jalandhar
	Variation in Alfvén wings in Earth's Magnetosphere Induced by Geomagnetic Storms	Sayanee Haldar NIT, Rourkela
	Interplanetary conditions on 24th April 2023, caused intense geomagnetic storms (Dst ≤ -212 nT)	Sham Singh CEC-CGC Landran
	The solar wind velocity and its correlation with solar and geomagnetic activity	Shriram Lahauriya CEC-CGC Landran
	Unveiling Ionosphere Response to Extreme Geomagnetic Storm of 10-11 October 2024 over the Indian Longitude Sector through GNSS Observations	Siva Sai Kumar Rajana KLEF, Andhra Pradesh
	Effect of Solar proton event on Nitrix Oxide radiative emission as observed by TIMED-SABER	Shrivansh Panwar Sanatan Dharm College Muzaffarnagar



ASTRONAUTICAL
SOCIETY OF INDIA



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
&
6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Poster Flash Presentations]

Planetary Science and Exploration (PSE)

Venue: APJAKB-104

“Institute Lecture Hall and Conference Complex”

Day – 1 (04th March 2025, Tuesday)

Time	Session/Event	Speaker
	Technical Session – 3c (7 Posters) <i>“Laboratory Studies, Meteorites and Analogues”</i>	
16:47 – 16:54	Bayesian Thermal Correction of Hyperspectral Data for Ceres’ Surface	Aliyya Fathima Rinu NISER Bhubaneswar
	Petrography and mineral chemistry of Sittampundi Anorthosite Complex: Implications as lunar crustal analogues	Amandeep Kaur IIT Roorkee
	Petrography and Geochemistry of Winonaite - NWA 14344	Nishant Pandey IIT Roorkee
	Monte Carlo RT model for airless planetary surfaces	Niti Singh NISER Bhubaneswar
	Understanding Thermophysical Property of Rough Planetary Surface	Poonam Kansarali NISER Bhubaneswar
	Thermal Evolution of Planetesimals: case for asteroid Vesta	Shehzade Manzoor Khan NISER Bhubaneswar
	Semi-Automatic Approach for Geological Mapping of Planetary Surfaces	Shubhangi Singh IIT, Kanpur



ASTRONAUTICAL
SOCIETY OF INDIA



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
&
6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Poster Flash Presentations]

Planetary Science and Exploration (PSE)

Venue: APJAKB-104

“Institute Lecture Hall and Conference Complex”

Day – 1 (04th March 2025, Tuesday)

Time	Session/Event	Speaker
	Technical Session – 3d (15 Posters) <i>“Mars, Venus, Mercury”</i>	
16:54-17:09	Processing of CRISM Hyperspectral Data for Martian Surface Composition Study in 3-4 μm Region	Abinaya Maraivalavan NISER Bhubaneswar
	Martian Relative Humidity Dynamics: Revealing Potential for Deliquescence and Regolith-Atmosphere Coupling	Anant Dikshit IIRS, Dehradun / IIT Roorkee
	Study Of Martian Alteration Process Through Olivine Clay Replacement In Terrestrial Analogue	Avirup Bose IIT(ISM) Dhanbad
	Mars topside ionospheric variation during solar quiet time	Chanchal Singh IIT Roorkee
	Martian evolution through Aram Chaos	Evna Suresh University Of Kerala
	Effect of Martian Dust Storms on Ozone Density	Gayatri Sharma PRL, Ahmedabad
	Results from Radio Occultation studies using Indian Mars Orbiter Mission	Keshav Aggarwal IIT Indore
	Whistler Wave Diagnostics of the Nightside Ionospheres of Mars and Venus: Insights from Electric and Magnetic Field Variability	Kriti Shrivastava IEHE, Bhopal
	Spatiotemporal Variations of Protonated and Non-Protonated Ions in the Martian Ionosphere	Kritika Joshi NARL, Gadanki
	Comparative Analysis of Martian Meteorological Dynamics During Global Dust Storms: Insights from Landers and Rovers Observations Versus Mars Climate Database (MCD) Models	Manasa M.J Mangalore University
	Plasma waves in the Martian magnetosheath jet	Sahil Pandey IIG, Navi Mumbai
	Morphological Evolution of Sand Dunes in Martian Gale Crater: Evidence of Limb Expansion and Avalanche Processes	Sibalika Kundu BIT, Mesra
	Processing VIRTIS Data for Venus Surface Compositional Study	Summit Bikram Nayak NISER Bhubaneswar
	Electrostatic Discharges and Upward Lightning on Venusian Atmosphere	Tejaswi Kondhiya PRL, Ahmedabad
	Comparative Analysis of Deep Learning Architectures for Crater Identification Using MCC Imagery	Vinay Kumar IIRS, Dehradun



ASTRONAUTICAL
SOCIETY OF INDIA



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
&
6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Poster Flash Presentations]

Planetary Science and Exploration (PSE)

Venue: APJAKB-104

“Institute Lecture Hall and Conference Complex”

Day – 1 (04th March 2025, Tuesday)

Time	Session/Event	Speaker
	Technical Session – 3e (24 Posters) “Moon”	
17:09 – 17:25	Mapping and Classification of Pyroxenes on the Lunar Surface: Implications for Crustal Evolution	Ankan Majumdar IIT Kanpur
	Classification and Analysis of Vertical Striping in Chandrayaan-1 Moon Mineralogy Mapper (M ³) Dataset	Anubhav Jain IIT Kanpur
	Extraction and interpretation of scattering components of lunar surfaces using polarimetric decomposition techniques of Chandrayaan-2 Dual Frequency SAR	Ashish B. Itolikar MIT AE, Pune
	Morphological Characteristics Analysis And Classification Of Lunar Impact Craters Using Chandrayaan-2 Tmc-2 Data	Ayan Chatterjee Gujarat University
	Exploring Lunar Seismicity: Investigating Possible Sources and Impacts	Bivas Das IISER Pune
	Geomorphology and Mineralogical mapping of Nepar Crater in Mare- High land boundary region	Dhivya Bharathi Anna University
	Characterization of Lunar Pyroclastic Deposits	Dibyendu Misra PRL, Ahmedabad
	Development of Numerical Model for the Stability and Mobility of Water-ice at Lunar Poles	G. Ambily PRL, Ahmedabad
	Mineral Spectral Analysis of Lunar Surface using Chandrayaan Data	Harshaditya Gaur IIRS, Dehradun
	Lunar Surface Temperature Estimation Using LRO Diviner Data For Shiv Shakti Point And Surrounding Region	Lopamudra Ghosh BIT, Mesra
	Mineralogy of Keeler Crater: Inferences from Moon Mineralogical Mapper	Madhura Muralidharan Pondicherry University
	Soil properties at the Chandrayaan-3 landing site: New insights from terramechanics and electrostatics over operating lunar rovers	Megha Tomer PRL Ahmedabad
	Morphological Mapping of Tycho Crater on the Moon	Pahi Roy IIT Kanpur
	Lunar South Pole Surface Ice Cluster Mapping using Chandrayaan-1 M3 Datasets	Poorva Singh IIRS, Dehradun
	Numerical modelling of impacts on Moon Permanently shadowed region	Rama Subramanian V UN CSSTEAP
	Crater Mapping and Age Dating of Permanently Shadowed Regions in the South Pole of the Moon	Rishi Ganesh Lakshmanan CEG, Anna University



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
 &
 6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Poster Flash Presentations]

Planetary Science and Exploration (PSE)

Venue: [APJAKB-104](#)

“Institute Lecture Hall and Conference Complex”

Day – 1 (04th March 2025, Tuesday)

Time	Session/Event	Speaker
	Technical Session – 3e (24 Posters) <i>“Moon”</i>	
17:25-17:33	Assessing Lunar Polar Craters for Water Ice Retention through Morphology	Sachana Sathyan PRL, Ahmedabad
	Chronological study of the Mare Fecunditatis Basin of the Moon using LROC WAC data	Sakthi Saravanan S NIT Raipur
	Characterizing Lunar North Polar Craters Using Chandrayaan-2 DFSAR data with Polarimetric and Eigenvalue-Based Radar Metrics	Shrikant Muduli IIT Roorkee
	A multi-proxy analysis of Lunar wrinkle ridge morphologies near Lamont region in Mare Tranquillitatis: insights into the nature and dynamics of subjacent thrust	Shubham Magar Pondicherry University
	Remote compositional characterisation of lunar high-titanium basalts	Somnath Adak IIT Kanpur
	Morphological Classification of Lunar rilles on parts of lunar near side	Suyash Sharma Pondicherry University
	Analysis of Different Distance Measures for Lunar Crater Detection using Chandrayaan-2 DFSAR Data	Aditya Kumar Verma NIT Hamirpur
	Design & development of receiver electronics for the detection of ultra-low signals to detect water ice by measuring dielectric permittivity for future planetary missions	Tinkal Ladiya PRL, Ahmedabad



ASTRONAUTICAL
SOCIETY OF INDIA



International Conference on
Space for Sustainability: Science, Technology, Education and Policy (S² : STEP2025)
&
6th Indian Planetary Science Conference (IPSC-2025)

Scientific Program [Poster Flash Presentations]

Planetary Science and Exploration (PSE)

Venue: APJAKB-104

“Institute Lecture Hall and Conference Complex”

Day – 1 (04th March 2025, Tuesday)

Time	Session/Event	Speaker
	Technical Session – 3f (03 Posters) <i>“Minor Bodies, Outer Planets and Exoplanets”</i>	
17:33– 17:36	Pulsar Passage: Impacts On The Solar System	Anmol Gandhi Independent Researcher
	Granular flow through apertures in low gravity environments	Ashish Bhateja IIT Goa
	Pulsar Navigation for Deep Space Exploration: Integrating Wavelet Analysis for Enhanced Signal Processing	Dev Acharya Menon VIT Vellore