

Meteoroids 2025 program

MONDAY	Session	Abstract	First Name	Last Name	Abstract Title / Activity
08:30	Registration				
08:45					
09:00	Welcomes				Ellie Sansom (LOC chair), Gretchen Benedix (Curtin Associate Deputy Vice-Chancellor - Research), and Pavel Koten (SOC chair)
09:15					
09:30	Composition and Physical Properties	49	Pavel	Koten	Meteor clusters: tracing meteoroid fragmentation in near-Earth space
09:45		52	Nicholas	Moskovitz	Ongoing Investigations with the Lowell Observatory Meteor Camera Network
10:00		68	Maximilian	Vovk	Physical characteristics of shower meteoroid inferred through Dynamic Nested Sampling
10:15		64	Thomas	Stevenson	Comparing Mechanical Strengths of Real and Simulated Meteoroids
10:30		65	Juraj	Toth	AMOS global meteor network - status and results
10:45					TEA/COFFEE BREAK
11:00					TEA/COFFEE BREAK
11:15		14	Jiri	Borovicka	Physical properties of kappa Cygnid and eta Virginid meteoroids (talk presented by Pavel Koten)
11:30		55	Veronika	Pazderová	Comparative analysis of meteor spectra observed simultaneously from multiple locations
11:45		67	Tomáš	Vörös	Modelling of faint meteors and bolides using AMOS all-sky data
12:00		74	Ziwen	Li (not registered)	A novel approach for revealing dynamical disintegration of irregular-shaped meteoroids with particle-sintered model / LUNCH BREAK
12:15					LUNCH BREAK
12:30					LUNCH BREAK
12:45					LUNCH BREAK
13:00	Future Methods and Techniques	1	Simon	Anghel	Machine Learning in Meteor Science: Advances and Applications
13:15					continued (invited talk)
13:30		58	Eleanor	Sansom	Ten years of the digital Desert Fireball Network - from meteorites to space debris
13:45		66	Jeremie	Vaubailon	Use of event-based camera for meteor science
14:00		31	Dale	Giancono	A Real-time All-Sky Fireball Camera Array Prototype for the Desert Fireball Network: Initial Results
14:15					TEA/COFFEE BREAK
14:30					TEA/COFFEE BREAK
14:45		42	Anna	Kartashova	Investigation of the possibilities of simultaneous meteor observations from Russia and Tajikistan
15:00		48	Svitlana	Kolomiyets	Classical Histogram Analysis of Radar and Optical Meteor Data: Key Points
15:15		11	Simon	Anghel	Enhancing Meteoroid Research Through the NASA Science Explorer (SciX)
15:30					Career session
15:45					Career session
16:00					Career session
16:15					(buses leave for welcome night)

## Meteoroids 2025 program

TUESDAY	Session	Abstract	First Name	Last Name	Abstract Title / Activity
09:00	Meteor Physics and Chemistry	3	Adriana	Pisarčíková	Advances in Meteor Spectroscopy: Observational and Laboratory Perspectives
09:15					continued (invited talk)
09:30		26	Logan	Dewsnap	Spectroscopic Observations of Tracked mm-sized Meteors
09:45		10	Shinsuke	Abe	Annual variation of sodium in the Geminids' spectra over 6-years
10:00		18	Dakota	Cecil	Exploring a New Approach to Simulating Meteors: Going Beyond DSMC
10:15		33	Maria	Gritsevich	Constraining Meteor Entry Velocity from Radar or Incomplete Optical Observations (talk presented by Ellie Sansom)
10:30		53	Nagatoshi	Nogami	Proposal of a new long life mechanism of meteor persistent trails
10:45		57	Olga	Popova	Lateral spreading of meteoroids fragments
11:00					TEA/COFFEE BREAK
11:15					TEA/COFFEE BREAK
11:30	Entry acoustics	29	Hani	Elbehiri	Perth array results and future plan
11:45		36	Islam	Hamama	Infrasound Analysis of HTV Missions and Rocket Launches from Tanegashima Space Center, Japan
12:00		72	Masa-yuki	Yamamoto	Infrasound observations for 3 SRC reentries as well as multiple configuration experiments with MOMO sounding rockets and STRATOVISION balloons
12:15		21	Iona	Clemente	Seismo-acoustic signals of fireballs: Comparing different types of atmospheric entry events.
12:30					LUNCH BREAK
12:45					LUNCH BREAK
13:00					LUNCH BREAK
13:15					LUNCH BREAK
13:30	Meteorite Recoveries	73	Anna	Zappatini	Droppers in good and bad places: three years of fireball monitoring in Oman
13:45		16	Daniel	Burgin	New Zealand's first camera-assisted meteorite recovery
14:00		23	Luke	Daly	UKFALL rising – the expansion of the UK Fireball Alliance.
14:15		25	Hadrien	Devillepoix	Real-time Drone-Assisted Meteorite Recovery: Towards Full Operational Capability
14:30					
14:45					TEA/COFFEE BREAK
15:00					TEA/COFFEE BREAK
15:15	Influx of Interplanetary and Interstellar Material	17	Margaret	Campbell-Brown	Correcting meteor radar observing biases with simultaneous optical observations
15:30		32	Cole	Gregg	A Case Study of Interstellar Material Delivery: Alpha Centauri
15:45		60	Konstantinos	Servis	Debiasing Meteoroid Flux Estimates Using the Desert Fireball Network's Clear-Sky Survey
16:00		56	Petr	Pokorny	Understanding the Antarctic/Greenland dust deposits with meteoroid models
16:15		12	Anthony	Lagain	Using the lunar impact record to decipher the flux of kilometric asteroids on Earth
16:30					Discussion: interstellar Meteoroids
16:45					Discussion: interstellar Meteoroids
17:00					
17:15					

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WEDNESDAY	Session	Abstract	First Name	Last Name	Abstract Title / Activity
09:00	Meteoroids in space	4	Eloy	Peña Asensio	The ESA's LUMIO mission: A new window into meteoroid characterization through far side lunar impact flash observations
09:15					continued (invited talk)
09:30		50	Jack	Lopes	Effects of meteoroid impacts as illuminators of lunar surface on water-ice stability
09:45		51	Mark	Millinger	Mitigating meteoroid impact risk and preparing future instrumentation
10:00					Discussion: Meteoroid impact risks to satellites and/or the meteoroid environment and spacecraft (or similar)
10:15					Discussion: Meteoroid impact risks to satellites and/or the meteoroid environment and spacecraft (or similar)
10:30	Poster Session	(see list below)			Posters with brunch
10:45					Posters with brunch
11:00					Posters with brunch
11:15					Posters with brunch
11:30					Posters with brunch
11:45					Posters with brunch
12:00					
12:15					
12:30					
12:45					
13:00					(excursions)

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THURSDAY	Session	Abstract	First Name	Last Name	Abstract Title / Activity
09:00	Planetary Defence: Before impact	54	Francisco	Ocaña	Planetary Defence Activities at ESA's Planetary Defence Office
09:15		69	Richard	Wainscoat	The Pan-STARRS search for Near-Earth Objects
09:30		71	Robert	Weryk	Pan-STARRS and the search for Potentially Hazardous Comets
09:45		22	David	Coward	The Southern Hemisphere Asteroid Research Consortium (SHARC)
10:00					TEA/COFFEE BREAK
10:15					TEA/COFFEE BREAK
10:30	Planetary Defence: Upon impact	30	George	Flynn	Hypervelocity Cratering and Disruption of Hydrous CM Chondrite and CI Simulant
10:45		15	Peter	Brown	A Search for Hydroacoustic Signals from Bolides
11:00		20	Ian	Chow	Dynamical and Physical Properties of Decameter-size Earth Impactors
11:15		62	Elizabeth	Silber	The 20 May 2023 bolide over Australia: Ground-to-space observations
11:30		63	Jeffrey	Smith	Finding Fireballs in Lightning: A Daily Pipeline to Find Bolides in GOES Weather Satellite Data
11:45					Discussion: Imminent Impactors??
12:00					LUNCH BREAK
12:15					LUNCH BREAK
12:30					LUNCH BREAK
12:45					LUNCH BREAK
13:00	Dynamical Evolution	2	Patrick	Shober	Missing Pieces: The Atmospheric Filter and the Curious Case of Carbonaceous Chondrites
13:15					continued (invited talk)
13:30		24	Sophie	Deam	A Near-Earth Object Model Calibrated to Earth Impactors
13:45		28	Auriane	Egal	Chasing the Dragon: Forecasting the 2025 Draconids
14:00		39	Filip	Hlobik	Dynamical history of $\kappa$ Cygnid and August Draconid meteoroids
14:15		44	Yung	Kipreos	The Origin of the Geminid Meteoroid Stream: Preliminary Results
14:30					TEA/COFFEE BREAK
14:45					TEA/COFFEE BREAK
15:00	Space debris	37	Benjamin	Hartig	Space Debris Re-Entries Over Australia: A Survey of Events, Environmental Risk, and Correlation with Earth Observation Imagery
15:15		38	Bella	Haffy	Desert Fireball Network meets space junk: Capturing a Soyuz re-entry over Australia
15:30		35	Maria	Hajdukova	Meteor Showers in Focus: Exposing Duplicates and Reclassification Needs
15:45					IAU F1 business meeting
16:00					IAU F1 business meeting
16:15					IAU F1 business meeting
16:30					IAU F1 business meeting
16:45					IAU F1 business meeting
17:00					IAU F1 business meeting
17:15					
17:30					(buses leave for dinner)

Meteoroids 2025 program

FRIDAY	Session	Abstract	First Name	Last Name	Abstract Title / Activity
09:00	Meteoroid Sources	40	Peter	Jenniskens	On the origin of our meteorites in the asteroid belt
09:15		61	Patrick	Shober	Searching for tidal disruption signatures amongst NEAs and impact data
09:30		34	Meryem	Guenoun	Decadal Analysis of FRIPON Meteoroid Orbits and Their Association with Known Near-Earth Asteroids (talk presented by Jeremie Vaubaillon)
09:45		27	Tam	Do	Which meteoroids are from asteroids and which are from comets?
10:00					TEA/COFFEE BREAK
10:15					TEA/COFFEE BREAK
10:30	Meteoroid Sources (showers)	70	Junichi	Watanebe	Meteor showers as a tool to investigate evolutionary history of the parent comets
10:45		13	Aishabibi	Ashimbekova	Reassessing 1200 meteor showers and their links to the near-Earth environment
11:00		43	Toshihiro	Kasuga	Comet 289P/Blanpain and the Phoenicids: Disruptive Past Revealed
11:15		59	Mikiya	Sato	Observation of the Outburst of the Tau-Herculid Meteor Shower in 2022
11:30		47	Gulchehra	Kokhirova	Investigation of the δ-Cancrid Asteroid-Meteoroid Complex
11:45					Discussion: Outstanding questions in linking meteoroids and their parent bodies
12:00					Discussion: Outstanding questions in linking meteoroids and their parent bodies
12:15					CLOSING
12:30					LUNCH BREAK
12:45					LUNCH BREAK

[illegible]