ASTEROIDS
COMETS
METEORS
6-10 VII 2026 Poznań

# Conference Programme

## Sunday, July 5

17:30-20:00 Ice-breaker

## Monday, July 6

**9:00-9:30 Welcome Ceremony, Aula Magna**

Welcome Addresses:

- Jacek Bogusławski, Member of the Executive Board of the Wielkopolskie Voivodeship
- Prof. dr hab. Bogumiła Kaniewska, Rector of Adam Mickiewicz University, Poznań
- Prof. dr hab. Teofil Jesionowski, Rector of Poznań University of Technology

**9:30-11:00 Plenary session, Aula Magna**
*chairs: TBD*

**9:30 - 10:00**
- Mapping the Solar System with Rubin: First Results at the Start of LSST
  Mario Jurić

**10:00 - 10:30**
- Progress in High-Precision Mapping and Visual Navigation Technologies for Asteroid Exploration
  Xie Huan

**10:30 - 11:00**
- The Story of Asteroid Ryugu: What the Samples Taught us
  Shogo Tachibana

11:00-11:30 Coffee Break

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# Monday, July 6

**11:30-13:00 Spacecraft Missions, Aula Magna**
*chairs: TBD*

11:30 - 11:40
- The ESA Hera Mission: Four Months Before Arrival to the Binary Asteroid Didymos
  Patrick Michel

11:40 - 11:50
- The Radio Science Experiments on the Hera and RAMSES Missions
  Pierre-Louis Phan

11:50 - 12:00
- Seismic Instrument for Asteroids (SIA): the RAMSES Seismometer for Asteroid Apophis
  Naomi Murdoch

12:00 - 12:10
- Updates on the APEX (OSIRIS–Apophis Explorer) Mission
  Michael Nolan

12:10 - 12:20
- DESTINY+ Mission to the Asteroids (99942) Apophis and (3200) Phaethon
  Harald Krüger

12:20 - 12:30
- Progress Updates on the START Mission: Investigating the 2029 Apophis Earth Encounter from a Geocentric Perspective
  Bin Cheng

12:30 - 12:40
- Comet Interceptor: Visiting A Pristine World
  Michael Küppers

12:40 - 12:50
- Calibration and the Data Processing Pipeline for the Thermal Infrared Imager on ESA's Comet Interceptor Mission
  Namrah Habib

12:50 - 13:00
- Forecasting the LSST Discovery Rate of Distant Comets: Implications for the Comet Interceptor Mission,
  Abbie Donaldson

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# Monday, July 6

**11:30-13:00 Meteors & Meteoroids, Room 1**
*chairs: TBD*

11:30 - 11:40
- Discovery and Characterisation of a Meteorite Strewn Field from a Small Asteroid Impact Using Orbital Sensors, Radar, and Drones
  Hadrien Devillepoix

11:40 - 11:50
- Analysis of the Iron Meteorite Fall of April 17, 2026
  Jiří Borovička

11:50 - 12:00
- Croatian Meteor Cluster as a Result of the Catastrophic Disruption of a Parent Meteoroid
  Pavel Koten

12:00 - 12:10
- From Iron Meteoroids to I-type Micrometeorites : A Meteor Perspective
  Peter Brown

12:10 - 12:20
- Sub-Micron Mineral and Organic Mapping in Primitive Solar System Materials
  Julie Brisset

12:20 - 12:30
- Transferring Laboratory Emission Diagnostics to Meteor Spectra: Application to the AMOS Spectral Catalogue
  Veronika Pazderová

12:30 - 12:40
- Comparison of Sodium Variations in the 2017-2025 Geminid Meteor Shower with the Parent Body Phaethon
  Shinsuke Abe

12:40 - 12:50
- Cross-Validation of Infrasound Detections and Fireball Observations from the Global Fireball Observatory
  Iona Clemente

12:50 - 13:00
- Sporadic Meteoroids Density, Structure, and Composition Beyond Orbital Class
  Maximilian Vovk

# Monday, July 6

**11:30-13:00 Laboratory Studies & Experimental Planetary Science, Room 2**
*chairs: TBD*

11:30 - 11:40
- Physical Properties of Near-Sun-Asteroid Surfaces via Laboratory Experiments and Polarimetric Observations
  Jooyeon Geem

11:40 - 11:50
- Reflectance Spectroscopy of Granular Icy Mixtures to Investigate Different Trans-Neptunian Surface Types
  Elsa Hénault

11:50 - 12:00
- Nonlinear Optical Dominance in Layered Regolith: Surface Texture and Spectral Analysis of CI Simulant Deposition Mechanisms
  Emma Belhadfa

12:00 - 12:10
- Connecting Activity of (3200) Phaethon to Geminids Through lab Experiments
  Leonard Schirner

12:10 - 12:20
- Experimental Study of Oblique, Low Velocity Impacts into Granular Media
  Esteban Wright

12:20 - 12:30
- Water Delivery on Asteroidal Surfaces by Hydrated Impactors
  Kosuke Matsubara

12:30 - 12:40
- ASTRI: Asteroid Surface Characterization Through Robotic Interaction
  Irina Luciana San Sebastián

12:40 - 12:50
- From MIRO to Future Comet Microwave Radiometers: Laboratory Support for Volatile Retrievals
  Dominik Belousov

12:50 - 13:00
- Facility Access Through the Europlanet Distributed Research and Technology Infrastructure (RTI)
  Anita Heward

13:00-14:30 Lunch
13:00-14:30 Science Opportunities with the Emirates Mission to the Asteroid Belt

# Monday, July 6

**14:30-16:00 Asteroid Science: Dynamics, Evolution & Physical Properties, Aula Magna**
*chairs: TBD*

14:30 - 14:40
- Spatially Resolved ALMA Observations of Main-Belt Asteroids: Ground-Truthing with (4) Vesta
  Becky Williams

14:40 - 14:50
- A Census before Rubin of Asteroid Families in the Main Belt
  David Nesvorný

14:50 - 15:00
- Unveiling Hidden Structures in the Main Belt: A Machine Learning Framework for Asteroid Families
  Maya Guy

15:00 - 15:10
- A New Synthetic Model of the Asteroid Belt
  Joseph DeMartini

15:10 - 15:20
- Recovering the Initial Main Belt Asteroid Population
  Marco Delbo

15:20 - 15:30
- Primitive Asteroids in the Main Belt From Gaia DR3
  Noémie El-Bez-Sébastien

15:30 - 15:40
- The Diversity of the Low-Albedo Small Bodies Population
  Andrew Rivkin

15:40 - 15:50
- Comparative Analysis of Asteroid Surface Geomorphologies Across Size and Compositional Classes
  Laura Martinez Parro

15:50 -16:00
- Spin Properties of Members of Asteroid Families
  Josef Ďurech

# Monday, July 6

**14:30-16:00 Centaurs & Trans-Neptunian Objects, Room 1**
*chairs: TBD*

14:30 - 14:40
- On the Remarkable Diversity of the Solar System's Dwarf Planet Population
  Alan Stern

14:40 - 14:50
- Deep Ground Based Searches for New Horizons Encounter Targets
  Jj Kavelaars

14:50 - 15:00
- Using Deep Learning to Search for New Horizons Targets at the Edge of the Solar System
  Wesley Fraser

15:00 - 15:10
- Shapes and Poles of Kuiper Belt Objects from New Horizons
  Simon Porter

15:10 - 15:20
- Arrokoth vs Asteroids – Impact Crater Size-frequency Distributions Across the Solar System Exhibit Mostly Shallow Slopes
  Kelsi Singer

15:20 - 15:30
- Contrast Reversal and Contrast Emergent Features on Pluto
  Jason Hofgartner

15:30 - 15:40
- JWST Spectrophotometry of New Horizons Kuiper Belt Targets
  Anne Verbiscer

15:40 - 15:50
- A First-Pass Search for TNOs in Single JWST/NIRCam Exposures
  Anastasia Morgan

15:50 - 16:00
- The Luminosity Function of Ultra-Faint Trans-Neptunian Objects Detected by James Webb Space Telescope
  Marielle Eduardo

# Monday, July 6

**14:30-16:00 Methods, Tools & Instrumentation, Room 2**
*chairs: TBD*

14:30 - 14:40
- The Solar System Open Database Network (SsODNet). 2026 Updates: Comets, Satellites, and More
  Benoit Carry

14:40 - 14:50
- The Solar System Notification Alert Processing System (SNAPS): Infrastructure status report and science projects
  David Trilling

14:50 - 15:00
- Don't Miss Out! Follow-up of Dynamic Moving Object Phenomena with FOMO
  Carrie Holt on behalf of Tim Lister

15:00 - 15:10
- Layup: Orbit Fitting at LSST Scale
  Ryan Lyttle

15:10 - 15:20
- Polarimetric Characterisation of Minor Planets with VSTPOL
  Gijs Verdoes Kleijn

15:20 - 15:30
- The Irregular Body Exploration (IBEx) Toolkit
  Abhinav Jindal

15:30 - 15:40
- Cross-Calibration of the ESA Hera HyperScout-H Instruments Using Mars Observations
  Andrea Farina

15:40 - 15:50
- Development of an Automated Very Faint Meteor Analysis Algorithm Applied to EMCCD Sensor Measurements
  Justin Domagala-Tang

15:50 - 16:00
- A Community-Accessible Tool for Meteorite Recovery Using Drones and Machine Learning
  Seamus Anderson

16:00-16:30 Coffee Break

# Monday, July 6

**16:30-18:00 Interstellar Objects, Aula Magna**
*chairs: TBD*

16:30 - 16:40
- A Targeted Search for Inbound Interstellar Objects with CFHT
  Jack Patterson

16:40 - 16:50
- On the Chemical Composition of Interstellar Objects
  Matthew Hopkins

16:50 - 17:00
- Contextualizing the Discovery of Interstellar Object 3I/ATLAS
  Rosemary Dorsey

17:00 - 17:10
- Near-perihelion Observations of 3I/ATLAS with the MAJIS Instrument Onboard the Juice Spacecraft: H2O and CO2 Production, and Dust Colors.
  Dominique Bockelée-Morvan

17:10 - 17:20
- The Interstellar Comet 3I/ATLAS As Seen By JANUS Onboard The JUICE Spacecraft
  Cecilia Tubiana

17:20 - 17:30
- Interstellar Object 3I/ATLAS Observed from Mars by China's Tianwen-1 Spacecraft
  Jian-yang Li

17:30 - 17:40
- JWST Mid-infrared Observations of 3I/ATLAS
  Matthew Belyakov

17:40 - 17:50
- The Nucleus and Coma of Interstellar Comet 3I/ATLAS as Seen by JWST
  Michael Kelley

17:50 - 18:00
- Compositional Studies of the Interstellar Comet 3I/ATLAS Pre- and Post-Perhelion With JWST
  Dennis Bodewits on behalf of Stephanie Milam

# Monday, July 6

**16:30-18:00 Outreach, Citizen Science & Popularisation, Room 1**
*chairs: TBD*

16:30 - 16:40
- Rubin Comet Catchers: Citizen Science and AI for Active Small-Body Discovery with LSST
  Colin Chandler

16:40 - 16:50
- Morasko Meteorite Impact Science Center
  Anna Łosiak

16:50 - 17:00
- The First Ten Years of the Italian PRISMA Fireball Network: Between Scientific Research and Dissemination
  Chiara Lamberti

17:00 - 17:10
- A Decade of Stellar Occultation by Small Bodies Observation in Algeria
  Djounai Baba Aissa

17:10 - 17:20
- Bejaia Amateur Astronomers Advancing Stellar Occultation Studies of Asteroids in Algeria
  Mohamed Lamine Allik

17:20 - 17:30
- Very Short-duration Multi-chord Stellar Occultation: The case of (65803) Didymos
  Hirotomo Noda

17:30 - 17:40
- From APOD to University Lectures: Modernizing and Revitalizing the Taiwanese Language Through Astronomy Education
  An-li Tsai

17:40 - 17:50
- From Myth to Matter: How Ancient Greek Mythology Interpreted Meteors, Comets and Celestial Events
  Maria Gatsou

17:50 - 18:00
- Professional Astronomers and Astronomy Outreach:  A Case Study of a UK Astronomy Centre
  Rok Nežič

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# Monday, July 6

**16:30-18:00 Multiple Systems & Moons, Room 2**
*chairs: TBD*

16:30 - 16:40
- The Formation and Evolution of Multi-component Asteroid Systems
  Daniel Scheeres

16:40 - 16:50
- Morphology Reconfiguration in Excited Contact Binaries
  Haishuo Wang

16:50 - 17:00
- Linking Tidal Evolution to Internal Structures for Rubble Pile Asteroid Binaries
  Iosto Fodde

17:00 - 17:10
- Phobos's Formation Ring Was Removed by the Eclipse-Yarkovsky Effect
  Wen-han Zhou

17:10 - 17:20
- Impact Origin of the South-Polar Depression and Global Regolith Layer of Deimos
  Sabina Raducan

17:20 - 17:30
- Direct Physical and Astrometric Characterization of a Kilometer-scale Jovian Moon for a Potential JUICE Flyby
  Juan L. Rizos

17:30 - 17:40
- Machine-Learning Enabled Impact Crater Detection at Lunar Poles
  Petr Pokorny

17:40 - 17:50
- A Unique Probe of High-Speed Launch Physics Would Be Provided by Ejecta From a Large Lunar Impact
  Brett Gladman

17:50 - 18:00
- First Photometric Evidence of Multi-Component Emission in a Geminid Lunar Impact Flash via 98-fps Three-Band Observations
  Noriaki Arima

16:30-18:00 Free city tour

# Tuesday, July 7

**9:00-11:00 Plenary session, Aula Magna**
*chairs: TBD*

**9:00 - 9:30**
- International Year of Asteroid Awareness and Planetary Defence, 2029 (Asteroids2029)
  Romana Kofler

**9:30 - 10:00**
- Models of the NEO and MBA Populations: From Sky Surveys to Geophysics
  Mikael Granvik

**10:00 - 10:30**
- An Overview of the Minor Planet Center Over the Years
  Matthew Payne

**10:30 - 11:00**
- Artificial Intelligence and Machine Learning in Planetary Science - Opportunities and Challenges in the Rubin Era
  Valerio Carruba

11:00-11:30 Coffee Break

# Tuesday, July 7

**11:30-13:00 Near-Earth Objects & Planetary Defence, Aula Magna**
*chairs: TBD*

11:30 - 11:40
- Astrometric Follow-up of a Torino Scale 3 object: the Case of 2024 YR4
  Marco Micheli

11:40 - 11:50
- Keyhole-to-surface Mapping for Kinetic Impact Missions to Near-Earth Asteroids
  Siegfried Eggl

11:50 - 12:00
- How Many Dangerous Asteroids are There?  Twice as Many as Previously Estimated
  Gonzalo Tancredi

12:00 - 12:10
- The Science Case for Apophis 2029 and the International Year for Asteroid Awareness and Planetary Defence
  Richard Binzel

12:10 - 12:20
- Unusual Thermal Behaviour of the Near-Earth Asteroid 2024 YR4
  Thomas Müller

12:20 - 12:30
- Managing Chaotic Dynamics in Asteroid Close Encounters: Identifying Scattering Events for Planetary Defense
  Giacomo Tommei

12:30 - 12:40
- Impact Hazard Assessment at ESA's NEOCC: A Review of Recent Activities
  Marco Fenucci

12:40 - 12:50
- NEO Polarimetry for Planetary Defence With the Nordic Optical Telescope
  Meri Kolehmainen

12:50 - 13:00
- Characterizing Sound Speed in a Rubble-pile Asteroid Analog
  Eric Scott Frizzell

# Tuesday, July 7

**11:30-13:00 Interstellar Objects, Room 1**
*chairs: TBD*

11:30 - 11:40
- Deuterium Enriched Water in the Interstellar Comet 3I/ATLAS Revealed by ALMA
  Luis Salazar Manzano

11:40 - 11:50
- High Nitrogen And Carbon Isotopic Ratios In The Interstellar Comet 3I/ATLAS
  Cyrielle Opitom

11:50 - 12:00
- Tracking the CN and C2 Evolution of Interstellar Object 3I/ATLAS using VLT MUSE
  Erica Molnar-Bufanda

12:00 - 12:10
- Optical High-resolution Spectroscopic Monitoring of the Interstellar Comet 3I/ATLAS Across Perihelion with the VLT
  Aravind Krishnakumar

12:10 - 12:20
- The International Asteroid Warning Network's 3I/ATLAS Campaign for Improving Comet Astrometry
  James M Bauer

12:20 - 12:30
- Coordinated Time-Domain Photometry of Interstellar Comet 3I/ATLAS with BHTOM
  Andrew Gillan

12:30 - 12:40
- Quasi-simultaneous Photometric, Polarimetric, and Spectral Observations of the Interstellar Comet 3I/ATLAS
  Oleksandra Ivanova

12:40 - 12:50
- Pre- and Post-Perihelion Polarimetry of Interstellar Comet 3I/ATLAS
  Zuri Gray

12:50 - 13:00
- Post-perihelion Optical Polarimetry of Interstellar Comet 3I/ATLAS
  Christian Wöhler

# Tuesday, July 7

**11:30-13:00 Meteors & Meteoroids, Room 2**
*chairs: TBD*

11:30 - 11:40
- Review of Asteroids, Meteors and Meteorite Type Links
  Peter Jenniskens

11:40 - 11:50
- Spectral Observations of Meteors and Luminous Efficiency
  Margaret Campbell-Brown

11:50 - 12:00
- Detecting Asteroidal Activity Using Meteor Observations: How to Find a “Rock-Comet”
  Patrick Shober

12:00 - 12:10
- Deconstructing mm-sized Meteoroids: Indication of Heterogeneity from the Physical Properties of Gross Fragments
  Tomáš Vörös

12:10 - 12:20
- Dynamical Origins of Earth-Impacting Millimetre-Sized Sporadic Meteoroids
  Tam Do

12:20 - 12:30
- Bayesian Acoustic-seismic Characterization of the March 8, 2026 Koblenz Meteoroid
  Dario Eickhoff

12:30 - 12:40
- ASTERISC: A CubeSat Mission to Observe Beta Meteoroids with a New Large-Area Film Dust Sensor
  Ryo Ishimaru

12:40 - 12:50
- Simulating the Alpha Capricornid Meteor Shower: A Dynamical Study Based on the Proposed Parent Bodies
  Gabriel Borderes-Motta

12:50 - 13:00
- Geminids are Initially Cracked by Atmospheric Thermal Stress
  Tomáš Henych

13:00-14:30 Lunch
13:15-13:45 - SsODNet Demo - group 1
13:45-14:15 - SsODNet Demo - group 2

# Tuesday, July 7

**14:30-16:00 Comets, Transition & Interstellar Objects, Aula Magna**
*chairs: TBD*

14:30 - 14:40
- Long-term Volatile Evolution of Interstellar Comet 3I/ATLAS
  Dennis Bodewits

14:40 - 14:50
- The Metallic Rich Atmosphere of the Interstellar Comet 3I/ATLAS
  Emmanuel Jehin

14:50 - 15:00
- Spatial Profiles and Scale Lengths of Nickel, Iron and CN on Interstellar Comet 3I/ATLAS
  Alessandra Caterina Mura

15:00 - 15:10
- Exploring 3I/ATLAS Through Thermal Modeling, Dust Tail Simulations, and Spacecraft Flyby Feasibility
  Atsuhiro Yaginuma

15:10 - 15:20
- Observations of the Ion Tail of 3I/ATLAS using Integral Field Units
  Lea Ferellec

15:20 - 15:30
- Observability of Planet Forming Materials From Interstellar Comet 3I/ATLAS
  Tessa Frincke

15:30 - 15:40
- Deep Learning-Enabled Size Estimation Of Comets Indicates A More Dynamic Early Solar System
  Xian Shi

15:40 - 15:50
- Statistical Insights on the Nature of Cometary Spin Ratios: Evidence for Environmental Processing
  Manuela Lippi

15:50 - 16:00
- Tracing Coma Jets and Nucleus Rotation in Comets via Narrowband Imaging
  Vincent Okoth

# Tuesday, July 7

**14:30-16:00 Multiple Systems & Moons, Room 1**
*chairs: TBD*

14:30 - 14:40
- The Lucy Mission's Unexpected Binary Bonanza
  Keith Noll

14:40 - 14:50
- Where Do Binary Near-Earth Asteroids Form?
  Adriano Campo Bagatin

14:50 - 15:00
- Catastrophic Disruptions as the Origin of Contact-binary Asteroids
  Harrison Agrusa

15:00 - 15:10
- Binary Asteroid Population: North-South Asymmetry of the Distribution of Orbital Poles of Asteroid Satellites
  Peter Scheirich

15:10 - 15:20
- Evidence from Gaia FPR Astrometry of a Hidden Binary Asteroid Population
  Luana Liberato

15:20 - 15:30
- Derivation of the Individual Masses of Widely Separated Binaries Based on Gaia Astrometric Data
  Ziyu Liu

15:30 - 15:40
- Detection And Characterization Of Binary Asteroids Using Stellar Occultations
  Raphaël Lallemand

15:40 - 15:50
- Extreme Adaptive Optics Characterization of the Quadruple Asteroid (130) Elektra
  Bin Yang

15:50 - 16:00
- (44) Nysa: A Contact Triple (?) Binary System
  Kate Minker

# Tuesday, July 7

**14:30-16:00 Asteroid Science: Dynamics, Evolution & Physical Properties, Room 2**
*chairs: TBD*

14:30 - 14:40
- An 800-Million-Year-Old Impact Shower on the Terrestrial Planets from the Breakup of the Eulalia Parent Body
  William Bottke

14:40 - 14:50
- The Polana-Eulalia Complex with JWST NIRSpec: Connections to Bennu, Ryugu, & Outer Solar System Bodies
  Lucas McClure

14:50 - 15:00
- Early Intrafamily Collisions In Newly Formed Asteroid Families
  Roberto Balossi

15:00 - 15:10
- A Monte Carlo Model for Coupled Collisional and YORP-Driven Spin Evolution of Asteroids in the Main Belt
  Po-yen Liu

15:10 - 15:20
- Asteroid Pairs: Survey of the Main Belt
  Ihor Kyrylenko

15:20 - 15:30
- Fragment Spin States Trace Giant Impact Collision Regimes
  Robert Melikyan

15:30 - 15:40
- Evolution of Re-impacting DART Ejecta Debris on Didymos and Predictions for the ESA Hera Mission
  Jeanne Bigot

15:40 - 15:50
- Mobility of Orbits in the NEO Region
  Nataša Todorović

15:50 - 16:00
- An Improved Theoretical Model for the Diurnal Yarkovsky Effect
  Oleksiy Golubov

# Tuesday, July 7

**16:00-18:00 Poster session:**

**CTNO = Centaurs & Trans-Neptunian Objects**
**CTO = Comets & Transition Objects**
**IO = Interstellar Objects**
**MSPS = Meteorites, Samples & Planetary Systems Evolution**
**MM = Meteors & Meteoroids**
**MTI = Methods, Tools & Instrumentation**
**LS = Laboratory Studies & Experimental Planetary Science**

16:00 - 17:30 European Research Council (ERC) - funding opportunities for frontier research
19:00 Amadeus Chamber Orchestra & MozART group concert

# Wednesday, July 8

**9:00-11:00 Plenary session, Aula Magna**
*chairs: TBD*

**9:00 - 9:30**
- A New Era in Cometary Science with JWST
  Sara Faggi

**9:30 - 10:00**
- An Overview of the Asteroid-Comet Continuum
  Man To Hui

**10:00 - 10:30**
- 3I/ATLAS: Into the Era of Interstellar Objects
  Michele Bannister

**10:30 - 11:00**
- Exocomets: What Comets in Extrasolar Systems Reveal
  Daniela Iglesias Vallejo

11:00-11:30 Coffee Break

# Wednesday, July 8

**11:30-13:00 Spacecraft Missions, Aula Magna**
*chairs: TBD*

11:30 - 11:40
- Beyond the 2.45 micron Barrier: The SPHEREx Year 1 Census of Asteroid Spectral Diversity
  Max Mahlke

11:40 - 11:50
- NASA's Lucy Mission to the Trojans – Results from flybys of (152830) Dinkinesh and (52246) Donaldjohanson
  Harold Levison

11:50 - 12:00
- Disentangling Binary Thermal Inertias via L'TES Unresolved Radiometry: Implications for the Lucy Trojan Tour
  Duncan Lyster

12:00 - 12:10
- MMX and MIRS to Constrains the Origin of Phobos and Deimos
  Antonella Barucci

12:10 - 12:20
- MMX Rover IDEFIX, Looking Forward to Launch and In-situ Science from Phobos
  Stephan Ulamec

12:20 - 12:30
- Emirates Mission to the Asteroid Belt Overview
  Mohsen Al Awadhi

12:30 - 12:40
- Science Overview of the Emirates Mission to the Asteroid Belt's MBR Explorer
  Hoor AlMazmi

12:40 - 12:50
- Volatile Stability Estimates for Targets of the Emirates Mission to the Asteroid Belt
  Kya Sorli

12:50 - 13:00
- Thermal Imaging Science on the Emirates Mission to the Asteroid Belt
  Paul Hayne

# Wednesday, July 8

**11:30-13:00 Meteors & Meteoroids, Room 1**
*chairs: TBD*

11:30 - 11:40
- Telescopic meteors observed by AMOS and ATLAS in Hawaii
  Martin Čulák

11:40 - 11:50
- High-Speed Observations of Lunar Impact Flashes
  Dale Giancono

11:50 - 12:00
- When the Leonids Meteor Storms are Back
  Jeremie Vaubaillon

12:00 - 12:10
- 2020 BX_14: A New Fragment of the Alpha Capricornids Parent Comet
  Apostolos Christou

12:10 - 12:20
- Breaking the Threshold Barrier in Orbital Similarity Metrics
  Simon Anghel

12:20 - 12:30
- Computing the Velocity of a Meteor Using the Phase of the Fourier Transform : Application to BRAMS Data
  Hervé Lamy

12:30 - 12:40
- Bulk Density Estimation Using α-β Inversion of Fireball Trajectories
  Maria Gritsevich

12:40 - 12:50
- Ballistic-Strength Survival Limits for Metallic, Siliceous and Carbonaceous Meteoroids
  Thomas Stevenson

12:50 - 13:00
- Spectroscopic Study of Rocket Debris During Atmospheric Re-entry
  Kosuke Watanabe

# Wednesday, July 8

**11:30-13:00 Centaurs & Trans-Neptunian Objects, Room 2**
*chairs: TBD*

11:30 - 11:40
- Distribution, Segregation, and Loss of CO2 on Trans-Neptunian Objects Revealed by JWST and Laboratory Experiments
  Rosario Brunetto

11:40 - 11:50
- The Scattered Disk and Extended Scattered Disk View in the LSST Era – Implications for Searching for Signs of Planet Nine
  Meg Schwamb

11:50 - 12:00
- Nature vs. Nurture in the Scattering Disk and Detached Trans-Neptunian Object Populations
  Bryan Holler

12:00 - 12:10
- Constraining the High-inclination 2:1 Resonance with the LiDO Survey
  Ying-tung Chen

12:10 - 12:20
- Astrometric and Orbital Refit of an Ultra-wide Trans-neptunian Binary: 2001 QW322
  Camille Chatenet

12:20 - 12:30
- Tidal Disruption of Ancient Plutos Populates the Solar System's Polar Corridor
  Yukun Huang

12:30 - 12:40
- Galactic Tides on the Solar System in a Non-axisymmetric Milky Way Model Adjusted to Gaia Data
  Alexandre Bougakov

12:40 - 12:50
- A Motion-Based Search for Distant Solar System Objects in the Catalina Sky Survey
  Jose David Balseca Cisneros

12:50 - 13:00
- The Physical Parameters of (50000) Quaoar Using Stellar Occultations, Photometry Light Curves, and Machine Learning
  Bruno E. Morgado

13:00-14:30 Lunch
13:00-13:15 Conference photo
13:45-14:15 The Habitable Worlds Observatory and Small Body Science

# Wednesday, July 8

**14:30-16:00 Near-Earth Objects & Planetary Defence, Aula Magna**
*chairs: TBD*

14:30 - 14:40
- Source Families of S-type Near-Earth Objects Visited by Space Missions
  Paul Simon

14:40 - 14:50
- NEOMIR: ESA's Space-Based Infrared Mission For Near-Earth Object Detection And Early Warning
  Luca Conversi

14:50 - 15:00
- Radiation Forces and Trajectory of Hayabusa2♯ Target 1998 KY26
  Davide Farnocchia

15:00 - 15:10
- Evaluating the Influence of the Yarkovsky Effect on the Recently Classified Dark Comet 1998 KY26 via Numerical Simulations
  Nicolas Michel

15:10 - 15:20
- Pre-flyby Spin and Shape Model of Hayabusa2# Target (98943) Torifune
  Petr Fatka

15:20 - 15:30
- Compositional Characterization of Asteroid Didymos from Ground-based Spectra: What to Expect at Hera's Arrival
  George Prodan

15:30 - 15:40
- Post-DART Rotational State of Dimorphos
  Ileana Uccheddu

15:40 - 15:50
- Post-Impact Evolution of the Didymos Binary Driven by Coupled Yarkovsky and YORP Effects
  Yixuan Wu

15:50 - 16:00
- The Updated Mutual Orbit of Dimorphos in Anticipation of the Hera Mission
  Shantanu Naidu

# Wednesday, July 8

**14:30-16:00 Comets, & Transition Objects, Room 1**
*chairs: TBD*

14:30 - 14:40
- Temporal Mapping of the Dust Tails of Comets C/2023 A3 (Tsuchinshan–ATLAS) and C/2024 G3 (ATLAS)
  Jake Hanlon

14:40 - 14:50
- 18-cm OH Lines in Comets with Tianma Radio Telescope: 12P/Pons-Brooks, C/2023 A3 (Tsuchinshan-ATLAS), C/2024 G3 (ATLAS) and 3I/ATLAS
  Juncen Li

14:50 - 15:00
- The Volatile Evolution of C/2024 E1 (Wierzchoś) From Multi-epoch JWST Data
  Carrie Holt

15:00 - 15:10
- HyperActive Asteroids First Results: Activity Discovered on Jupiter Family Comet 2015 DD349
  Kennedy Farrell

15:10 - 15:20
- Monitoring the Activity of Special Comet C/2017 K2 (PanSTARRS)
  Javiera Espinoza

15:20 - 15:30
- Dust and Gas Characterization of the Great C/2023 A3 Comet Near Perihelion  Giovanna Rinaldi

15:30 - 15:40
- Dynamical Evolution of Jupiter-Family Comets 2005 EC272, 2009 SR143, and 2015 DD349
  Annabella Dickenson

15:40 - 15:50
- New Fluorescence Models for NH and CH in Cometary Optical Spectra
  Elsa Blond Hanten

15:50 - 16:00
- Fluorescence Properties of Homonuclear Cations in Cometary Atmospheres: N2+ and O2+
  Steven Bromley

# Wednesday, July 8

**14:30-16:00 Asteroid Science: Dynamics, Evolution & Physical Properties, Room 2**
*chairs: TBD*

14:30 - 14:40
- Spectroscopy From the Near-ultraviolet to the Near-infrared to Study the Composition of Primitive asteroids: (84) Klio and (313) Chaldaea
  Tania Le Pivert-Jolivet

14:40 - 14:50
- Soluble Organic Matter in Hydrated Asteroid Families: Insights from 3 μm Spectroscopy
  Pranvera Hyseni

14:50 - 15:00
- Near-Infrared Spectroscopic Follow-Up of Gaia DR3 V-Type Asteroid Candidates with IRTF/SpeX
  Christopher Bass

15:00 - 15:10
- Searching for Primitive, Dark, Spectrally Red Asteroid Families with Gaia
  Ullas Bhat

15:10 - 15:20
- Low-Albedo and Inclination Asteroid Families as Tracers for Volatiles in the Inner Solar System
  Driss Takir

15:20 - 15:30
- The Hydration and Mineralogy of Main Belt Asteroids from JWST
  Katherine De Kleer

15:30 - 15:40
- The Nysa Family as the Main Source of Unequilibrated LL Ordinary Chondrites
  Michaël Marsset

15:40 - 15:50
- Probing the Origin and Interiors of Jupiter Trojans Through JWST Spectroscopy of Collisional Family Members
  Ian Wong

15:50 - 16:00
- Building Artificial Neural Networks To Determine Family Membership Of Dark Inner Main Belt Families
  Andrew Marshall-Lee

16:00-16:30 Coffee Break

# Wednesday, July 8

**16:30-18:00 Near-Earth Objects & Planetary Defence, Aula Magna**
*chairs: TBD*

16:30 - 16:40
- Shape Models of Near-Earth Asteroids 1036 Ganymed, 3200 Phaethon, 5189 (1990 UQ), 285331 (1999 FN53), and 385186 (1994 AW1)
  Sean Marshall

16:40 - 16:50
- Shape and Spin State Reconstruction of Near-Earth Asteroid (53319) 1999 JM8 Based on Radar and Optical Observations
  Marina Brozovic

16:50 - 17:00
- Shape Model of Near-Equal Mass Binary Near-Earth Asteroid 2017 YE5
  Kris Laferriere

17:00 - 17:10
- Differences In Morphology Amongst Radar Observed Contact Binaries
  Richard Cannon

17:10 - 17:20
- Using Solveorbit and Mutual Events to Characterize Radar-Observed Near-Earth Binary Systems
  Aaron Deleon

17:20 - 17:30
- Bistatic Radar Observations of NEA 2025 FA22
  Shinji Horiuchi

17:30 - 17:40
- Initial Orbit Determination of Near-Earth Objects with Physics-Informed Neural Networks
  Francesco Geroni

17:40 - 17:50
- A New Method for the Computation of the Yarkovsky Effect for Non-circular Orbits
  Maddalena Mochi

17:50 - 18:00
- Infrared Detection and Characterization of Earth-interior Asteroids With a Novel Thermal Model
  Eric MacLennan

# Wednesday, July 8

**16:30-18:00 Meteorites, Samples & Planetary Systems Evolution, Room 1**
*chairs: TBD*

16:30 - 16:40
- Ripening of Planetesimals: Diversity of Asteroids
  Eric Asphaug

16:40 - 16:50
- Temporal Evolution of NEOs and Meteorite Flux
  Miroslav Brož

16:50 - 17:00
- Linking Terrestrial Planet Formation to the Main Asteroid Belt: Implantation of Non-carbonaceous Material
  Max Goldberg

17:00 - 17:10
- Carbonaceous Chondrites Provide Evidence for Late-stage Planetesimal Formation in a Pressure Bump
  Nerea Gurrutxaga

17:10 - 17:20
- Inefficient Outward Transport Preserves CM and CI Reservoir Separation
  Sarah E. Anderson

17:20 - 17:30
- The Accretion Timescale of CR Clan Parent Bodies
  Wladimir Neumann

17:30 - 17:40
- Ammonium-bearing Phyllosilicate Phases Identified in Ryugu and Bennu Samples via Infrared Spectroscopy
  Te Jiang

17:40 - 17:50
- A Survey of Hydrated Phosphates in Returned Ryugu and Bennu Samples Reveals Divergent Alteration Histories
  Donia Baklouti

17:50 - 18:00
- The Composition of the Dust Particles of 67P/Churyumov-Gerasimenko Suggests a Pre-accretional Irradiation
  Nicolas Fray

# Wednesday, July 8

**16:30-18:00 Asteroid Science: Dynamics, Evolution & Physical Properties, Room 2**
*chairs: TBD*

16:30 - 16:40
- Phase Curves and Phase Coloring of Asteroids From Survey Photometry
  Milagros Colazo

16:40 - 16:50
- Asteroid Photometric and Polarimetric Phase Curve Modelling
  Hanna Pentikäinen

16:50 - 17:00
- Distribution of Absolute Colors of Small Bodies
  Alvaro Alvarez-Candal

17:00 - 17:10
- Shape, Orientation and Colors Combined approach for Asteroids (SOCCA)
  Konstantinos Odysseas Xenos

17:10 - 17:20
- Rigorous use of Light Curve Inversion and Stellar Occultation for Deriving a Scaled Three-dimensional Shape for the Jupiter Trojan (911) Agamemnon
  Altair R. Gomes-Junior

17:20 - 17:30
- Rotational Characteristics of Trojan and Hilda Asteroids Observed by TESS
  Nóra Takács

17:30 - 17:40
- Thermal Inertia Estimation of Small Asteroids by Light Curve Phase Lags
  Sorato Wada

17:40 - 17:50
- Asteroid Mineralogy Revealed By Near-Infrared Polarimetry
  Joseph Masiero

17:50 - 18:00
- Calibrating Minor Planet Photometry with a Sparse and Data-driven Model
  Steven Stetzler

16:30-18:00 Free city tour

# Thursday, July 9

**9:00-11:00 Plenary session, Aula Magna**
*chairs: TBD*

**9:00 - 9:30**
- What Meteorites Reveal About Planet Formation
  Joanna Drążkowska

**9:30 - 10:00**
- Connecting Asteroid Families to Meteorite Classes: New Results and Open Questions
  Pierre Vernazza

**10:00 - 10:30**
- Compositional Diversity and Surface Evolution of TNOs - Heritage and Perspective with JWST
  Sonia Fornasier

**10:30 - 11:00**
- Binary Asteroid Discoveries and Characterization: New Approaches and Perspectives
  Paolo Tanga

11:00-11:30 Coffee Break

# Thursday, July 9

**11:30-13:00 Comets & Transition Objects, Aula Magna**
*chairs: TBD*

11:30 - 11:40
- 10 Years on from the Rosetta Mission to 67P/Churyumov-Gerasimenko: Our Current Understanding of Geologic-like Processes on Comets
  M. Ramy El-Maarry

11:40 - 11:50
- Boulder Mobility on Comets: Insights from Rosetta Observations and Numerical Modelling
  Xiang Tang

11:50 - 12:00
- The Sediment Pathways Shaping Landscapes Across Comet 67P/Churyumov–Gerasimenko
  Abhinav Jindal

12:00 - 12:10
- Variations in the Dust Properties of Comet 67P Across Multiple Apparitions
  Ludmilla Kolokolova

12:10 - 12:20
- A Proposed Classification of Distinct Dust Grain Populations from the Analysis of High-Activity Comets' Dust Tails
  Geraint H. Jones

12:20 - 12:30
- Dust Productivity of Comets from Various Dynamical Families
  Anhelina Voitko

12:30 - 12:40
- Surface Manifestations of Cometary Outbursts
  Samuel Birch

12:40 - 12:50
- Evidence for the Influence of the Jupiter-Saturn Barrier on the Physical Evolution of Long Period Comets
  Colin Snodgrass

12:50 - 13:00
- Study of the Non-Gravitational Forces Acting on Long-Period Comets
  Margherita Maria Revellino

# Thursday, July 9

**11:30-13:00 Surveys & Data Mining, Room 1**
*chairs: TBD*

11:30 - 11:40
- Taxonomy of 14042 Asteroids from Gaia DR3 Reflectance Spectra
  Fernando Tinaut-Ruano

11:40 - 11:50
- A Unified SDSS–SkyMapper Catalog of Asteroid Colors and Taxonomic Classes
  Alexey Sergeyev

11:50 - 12:00
- Ramping up Rubin Asteroid Discovery: Challenges and Triumphs
  Aren Heinze

12:00 - 12:10
- Early Characterization of Rubin Observatory's Asteroid Detection Efficiency
  Jacob Kurlander

12:10 - 12:20
- Predictions and First Results of the LSST Search for Imminent Impactors
  Ian Chow

12:20 - 12:30
- Detection of New Long Period Comets by Vera C. Rubin Telescope (LSST)
  Marc Fouchard

12:30 - 12:40
- China’s 2.5-meter Wide Field Survey Telescope and Its Progress in Asteroid Search
  Lulu Fan

12:40 - 12:50
- Color Analysis of Potentially Hazardous Asteroids within the NEOPOPS Project
  Mirel Birlan

12:50 - 13:00
- TESS Solar System Objects Data Release 2
  Róbert Szakáts

# Thursday, July 9

**11:30-13:00 Spacecraft Missions, Room 2**
*chairs: TBD*

11:30 - 11:40
- Physical Parameters of Space Mission Asteroid Targets
  Petr Pravec

11:40 - 11:50
- Hayabusa2# Target Asteroid 1998 KY26 is Smaller and Rotating Faster than Previously Known
  Toni Santana-Ros

11:50 - 12:00
- Shape and Spin-State Determination of the Tianwen-2 Target Asteroid (469219) Kamoʻoalewa
  Josef Hanuš

12:00 - 12:10
- Assessment of (524522) Zoozve as a Candidate Target for a Future Korean Near-Earth Asteroid Impact Mission
  Youngmin JeongAhn

12:10 - 12:20
- Orange Material Patches on Vesta: Morphology and Distribution
  Ivan Slyusarev

12:20 - 12:30
- ESA M8 Candidate PRIAMOS - A Sample Return Mission to a D-Type Near-Earth Asteroid
  Raphael Marschall

12:30 - 12:40
- The CALICO+ Mission – Exploring Ocean World Ceres
  Axel Hagermann

12:40 - 12:50
- Lunar Meteoroid Impact Flashes Detection with LUMIO CubeSat Mission
  Sabrina Sughi

12:50 - 13:00
- Robotic Exploration of the Centaurs: Prospects, Challenges, and Near-Term Opportunities
  Walter Harris

13:00-14:30 Lunch
13:00-14:20 The New Horizons Search for KBO Observation and Flyby Targets: An Update

# Thursday, July 9

**14:30-16:00 Near-Earth Objects & Planetary Defence, Aula Magna**
*chairs: TBD*

14:30 - 14:40
- Probing Sub-Minute Rotators: Simultaneous Tricolor Video Observations of Three Tiny Near-Earth Asteroids
  Jin Beniyama

14:40 - 14:50
- Near Earth Asteroid Photometric Characterisation from the University of Western Australia Space Surveillance Hub
  Dorota Mieczkowska

14:50 - 15:00
- From Hours to Days: Imminent Impactors in the LSST Era
  Michael Frazer

15:00 - 15:10
- What are the smallest NEOs that LSST will discover?
  Sophie E. Deam

15:10 - 15:20
- Rapid Albedo Determination of Near-Earth Objects From Single Polarimetric Observations
  Maxime Devogele

15:20 - 15:30
- Deriving Taxonomic Classifications for Small Near-Earth Asteroids with MuSCAT
  Remington Cantelas

15:30 - 15:40
- Toward the Intrinsic Taxonomic Distribution of Small Near-Earth Objects
  Andy López-Oquendo

15:40 - 15:50
- Characterizing Near-Earth Objects with Polarimetry in the framework of the NEOPOPS project
  Emily Frank

15:50 - 16:00
- Characterizing potential impactors inside the NEOPOPS project: The case of 2025 FA22
  Simone Ieva

# Thursday, July 9

**14:30-16:00 Surveys & Data Mining, Room 1**
*chairs: TBD*

14:30 - 14:40
- Every JWST Image is a Movie: Recovering Trailed Asteroids in the JWST NIRCam Archive by Differencing Group Reads
  Anthony Girmenia

14:40 - 14:50
- A Search for Vulcanoids in STEREO/HI1 images
  Quanzhi Ye

14:50 - 15:00
- J-ARRAS: near-UV spectrophotometry of Solar System small bodies with the JST250/JPCam
  David Morate

15:00 - 15:10
- Search for L4 Earth Trojan Asteroids With the 2.5-meter Wide Field Survey Telescope
  Junqiang Lu

15:10 - 15:20
- New Software, New Tracklets, Same Images: Applying Modern Tools to the NEAT Data set
  Nicole Tan

15:20 - 15:30
- Large survey of V-type asteroids
  Edyta Podlewska-Gaca

15:30 - 15:40
- A Heliocentric-orbiting Objects Processing System (HOPS) for the Wide Field Survey Telescope
  Shaohan Wang

15:40 - 15:50

- Active Asteroids In the Rubin Science Validation Survey: Searching for Appearing and Disappearing Objects
  Adam Wilson

15:50 - 16:00
- Detecting surface color heterogeneity of small Solar System bodies with survey data
  Oriel Humes

# Thursday, July 9

**14:30-16:00 Centaurs & Trans-Neptunian Objects, Room 2**
*chairs: TBD*

14:30 - 14:40
- Final Catalog from the DECam Ecliptic Exploration Project (DEEP)
  Pedro Bernardinelli

14:40 - 14:50
- Preliminary Results from the Occultation by Haumea on 2026 May 4
  Jose L. Ortiz

14:50 - 15:00
- Size-Dependent Compositional Trends in Cold Classical TNOs and the Processes Responsible For Them
  Will Grundy

15:00 - 15:10
- New Constraints On Primordial Nitrogen Chemistry In The Outer Protoplanetary Disk From Organics-Type Trans-Neptunian Objects
  Sasha Cryan

15:10 - 15:20
- The Rings of (2060) Chiron: Evidence of an Evolving System
  Chrystian L. Pereira

15:20 - 15:30
- Has the Dust Settled? Tracing the 2021 Brightening Episode of Centaur (2060) Chiron with Six Years of Survey Photometry
  Joseph Murtagh

15:30 - 15:40
- The RENOIR survey: Possible Evidence of Surface Transformation and Color Bimodality in the Centaur Population
  Eva Lilly

15:40 - 15:50
- The Snowball Fight Happening in the Dark: How the Low-speed/High-porosity Conditions of Comet Nuclei Produce Unrecognizable Impact Craters
  Jordan Steckloff

15:50 - 16:00
- Kuiper Belt Formation: The Role of Grainy Planetary Migration and Primordial Plutos
  Patryk Sofia Lykawka

# Thursday, July 9

**16:00-18:00 Poster session:**

**AS = Asteroids Science: Dynamics, Evolution & Physical Properties**
**MSM = Multiple Systems & Moons**
**NEO = Near Earth Objects & Planetary Defence**
**SM = Spacecraft Missions**
**OPC = Outreach, Popularisation & Citizen-Science**
**SDM = Surveys & Data Mining**

16:00-17:30 ERC Q&A - funding opportunities
19:00 Banquet

# Friday, July 10

**9:00-11:00 Plenary session, Aula Magna**
*chairs: TBD*

**9:00 - 9:30**
- Hayabusa2's New Challenge: (98943) Torifune Flyby Exploration
  Makoto Yoshikawa

**9:30 - 10:00**
- The Renaissance of Meteor Physics: New Optical and Radar Perspectives
  Denis Vida

**10:00 - 10:30**
- Progress in Planetary Defense: Discovery, Risk Assessment, and Response
  Steven Chesley

**10:30 - 11:00**
- Closing Summary

11:00-11:30 Coffee Break

11:30 Excursions