

Session Program

May 5 – 9, 2025

9th IAA PLANETARY DEFENSE CONFERENCE 2025

Poster Session 5: Near-Earth Object (NEO) Characterization

STELLENBOSCH, CAPE TOWN, SOUTH AFRICA
Protea Hotel by Marriott® Stellenbosch

Mon, May 5

6:00 PM

Poster Session 5: Near-Earth Object (NEO) Characterization: Posters - Session 5: Near-Earth Object (NEO) Characterization

Poster Session | Location: STELLENBOSCH, CAPE TOWN, SOUTH AFRICA, Protea Hotel by Marriott® Stellenbosch

Near-Earth Asteroid Follow-up Observations at the SAAO

Speaker
Dr Nicolas Erasmus

Analysis of Bennu's Density Distribution Using Recent Mission Data

Speaker
Ashish Cavale

NEAs photometric survey from Loiano Astronomical Station

Speaker
Albino Carbognani

A New Program for Rotational Characterization of Near-Earth Objects

Speaker
Adam Battle

A rapid-response program to characterize Near Earth Objects with LCO's MuSCAT instruments

Speaker
David Trilling

Rapid Reconnaissance and Characterization of Potentially Hazardous Asteroids and Comets with Solar Sailcraft

Speaker
John McVey

MASS MEASUREMENT TECHNIQUES FOR HIGH-SPEED FLYBY RECONNAISSANCE MISSIONS OF POTENTIALLY HAZARDOUS ASTEROIDS

Speaker
Justin Atchison

Space to Lab Asteroid Studies with Imminent Impactors in the LSST era

Speaker
Hadrien Devillepoix

DUST DYNAMICS SIMULATIONS USING LICIA CUBE OBSERVATIONS IN PREPARATION FOR THE HERA MISSION SCIENCE

Speaker
Stavro Ivanovski

The Aegis orbit determination and impact monitoring system architecture

Speaker
Francesco Gianotto

Raining Fire: Meteoroid Characterisation based on Ballistic Trajectory Analysis

<p>Speaker Mr Thomas Stevenson</p>
<p>An IAWN Comet Campaign</p> <p>Speaker James Bauer</p>
<p>Astrometry, orbit determination, and thermal inertia of the Tianwen-2 target asteroid (469219) Kamo`oalewa</p> <p>Speaker Marco Fenucci</p>
<p>The potentially hazardous binary asteroid (285263) 1998 QE2</p> <p>Speaker Flaviane Venditti</p>
<p>A model based approach to asteroid detection and characterisation using bistatic continuous wave radar</p> <p>Speaker Edwin Peters</p>
<p>Investigating the effect of aggregate parameters on the macro-scale properties of rubble-rile asteroids</p> <p>Speaker Irina Luciana San Sebastián</p>
<p>Probing shape, spin, and absolute magnitude: A comprehensive study of thirteen asteroids with MOID less than 1 AU</p> <p>Speaker Kristers Nagainis</p>
<p>Impact probability predictions for 2024 PDC25 via jet transport techniques</p> <p>Speakers Jorge Perez-Hernandez, Luis Benet, Luis Eduardo Ramírez Montoya</p>
<p>Statistical analysis of the observatory performances</p> <p>Speaker Karolina Dziadura</p>
<p>Southern Hemisphere Asteroid Radar Program (SHARP)</p> <p>Speaker Shinji Horiuchi</p>
<p>SOUTHERN HEMISPHERE ASTEROID RESEARCH CONSORTIUM FOR SUPPORT TO PLANETARY DEFENCE</p> <p>Speaker Ed Kruzins</p>
<p>Mass ejection by fast-spinning Didymos: orbiting dust and transference to Dimorphos</p> <p>Speaker Adriano Campo Bagatin</p>
<p>On the parameters of NEO encounters with the Earth</p> <p>Speaker Roman Zolotarev</p>

Sensitivity of surface modification to seismic waves in rubble-pile asteroids

Speaker
Eric Frizzell

Radar and optical tracking of Near-Earth Objects at the University of Tasmania

Speaker
Guifre Molera Calves

Radar Observation of Asteroids 2005 LW3 and 2006 WB with European Radio Telescopes

Speaker
Giuseppe Pupillo

Overview of NEO-related research by the Planetary Science Team at University of Alicante (Spain)

Speaker
Dr Adriano Campo Bagatin

Search for potentially hazardous long-period comets based on the projection of their meteoroid streams

Speaker
Peter Jenniskens

INFRARED PHOTOMETRY FOR NEAR-EARTH OBJECTS FROM SPITZER - THE FULL SAMPLE

Speaker
Andrew McNeill

Stellar Occultations: a powerful Citizen science contribution to planetary defence

Speaker
Damya Souami

Near-Earth asteroid regolith properties from thermal mm-wavelength observations

Speaker
Dr Timothy Titus

Rapid-Defender: A New Polarimeter for Planetary Defense

Speaker
Estela Fernandez-Valenzuela

Enhancing Near earth object detection and characterization by optimizing ground based technology and small satellite constellations

Speakers
Mahima Gehlot, Ms Sama Khanjani

Asteroid Polarimetry & Classification with the 2-m Liverpool Telescope

Speaker
Rosie Wilson

Lightcurve Analysis of Imminent Impactors for Planetary Defense Using Innovative Trail Technique

Speaker
Maxime Devogele

Micrometers Regolith Grain Size Properties Inferred by Laboratory Infrared Observation and their Implication for Planetary Protection

Speaker
Giovanni Poggiali

Prevalence of Fast Rotators in Small Near-Earth Asteroids: An Ongoing Survey from the Canary Island Observatories

Speaker

Miguel R. Alarcon

9:00 PM