

Session Program

May 5 – 9, 2025

9th IAA PLANETARY DEFENSE CONFERENCE 2025

Session 4: Near-Earth Object (NEO) Discovery

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

Wed, May 7

9:05 AM

Session 4: Near-Earth Object (NEO) Discovery: Session 4: Near-Earth Object (NEO) Discovery

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

9:05 – 9:13 AM **The Pan-STARRS Search for Near-Earth Objects: 10+ Years old and going strong**

Speaker

Richard Wainscoat

9:15 – 9:23 AM

Modern computational techniques for improving moving object detection pipelines with the Catalina Sky Survey

Speaker

Mr Carson Fuls

9:26 – 9:34 AM

NEO SURVEYS DOING MORE WITH MORE : OPTIMIZED SCHEDULING AND OBJECT SEARCH FOR MULTI-OBSERVATORY OPERATIONS

Speaker

Larry Denneau

9:34 – 9:42 AM

ESA's Planetary Defence Office NEO Survey Strategy

Speaker

Rainer Kresken

9:42 – 9:50 AM

Imminent impactor discoveries from Hungary: recent results and lessons learnt

Speakers

Krisztian Sarneczky, Laszlo Kiss

9:50 – 9:58 AM

How Much Warning Time for Asteroid Impacts Will We Have in the Vera Rubin Era?

Speaker

Kathleen Kiker

9:58 – 10:06 AM

2024 Schweickart Prize Winning Proposal: The Sunward NEO Surveillance and Early Twilight Detection (SUNSET) Collaboration

Speaker

Joseph DeMartini

10:06 – 10:17 AM

Q&A / Discussion

10:17 – 10:25 AM

Minor Planet Center Updates and New Developments

Speaker

Federica Spoto

10:25 – 10:33 AM

Machine learning improvement of the Near Earth Object discovery process

Speaker
Peter Veres

10:33 – 10:41 AM **Identifying potential NEOs based on their single-tracklet motion**

Speaker
Robert Weryk

10:41 – 10:49 AM **How many 1km NEAs are there? A critical revision of different estimates**

Speaker
Gonzalo Tancredi

10:49 – 10:57 AM **2032 AND 2036 RISK ENHANCEMENT FROM NEOs IN THE TAURID STREAM**

Speaker
Mark Boslough

10:57 – 11:05 AM

PREDICTED DISCOVERY OF LOW-DELTA V TARGETS AMONG THE NEO POPULATION BY NEO SURVEYOR

Speaker
Paul Abell

11:05 – 11:15 AM **Q&A / Discussion**

11:15 AM