

Session Program

May 5 – 9, 2025

9th IAA PLANETARY DEFENSE CONFERENCE 2025

Session 8: Earth Impact Effects & Consequences

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

Thu, May 8

1:45 PM

Session 8: Earth Impact Effects & Consequences: Session 8: Earth Impact Effects & Consequences

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

1:45 – 1:53 PM

Spherical Simulations of the Atmospheric Entry and Energy Deposition of PDC25 Threat Scenario Asteroids

Speaker

Evan Bjornes

1:53 – 2:01 PM

Coupled Radiation-Hydrocode Predictions of Thermal and Blast Damage for PDC25

Speaker

Dr Darrel Robertson

2:01 – 2:09 PM

A New Hydrocode Pipeline for Assessing Ground Effects of Chelyabinsk- to Tunguska-Sized Asteroid Airbursts

Speaker

Dr Veronika Korneyeva

2:09 – 2:17 PM

High-Fidelity Blast Propagation for PDC25 Impact Scenarios

Speaker

Michael Aftosmis

2:17 – 2:25 PM

Airburst & Blast Damage for the PDC25 Impact Scenario: Why the Largest Asteroid is Not the Worst Case

Speaker

Lorien Wheeler

2:25 – 2:33 PM

Asteroid-induced climate coupled cascading hazards along an asteroid risk corridor.

Speaker

Timothy Titus

2:33 – 2:41 PM

A Semi-Analytic Lamb Wave Model for Prediction of Blast Overpressures from Large Asteroid Entries

Speaker

Wade Spurlock

2:41 – 2:49 PM

Scaling Implications of Terrestrial Impact of Meteors: Cratering, Ejecta & Cloud Formation, Induced Ground Motions

Speaker

Souheil Ezzedine

2:49 – 3:05 PM

Q&A / Discussion

3:05 PM