

Thursday, March 19, 2015 [R712]
**POSTER SESSION II: NEAR EARTH AND POTENTIALLY HAZARDOUS OBJECTS:
 BEST SEEN AND NOT HEARD**
 6:00 p.m. Town Center Exhibit Area

Bruck Syal M. Owen J. M. Miller P. L. **POSTER LOCATION #164**
[Nuclear and Kinetic Approaches to Asteroid Defense: New Numerical Insights](#) [#1673]

Numerical simulations of asteroid deflection by kinetic and nuclear strategies probe mitigation sensitivities to asteroid characteristics.

Keane J. T. Matsuyama I. **POSTER LOCATION #165**
[Rejuvenating Asteroids During Planetary Flybys: Applications to \(99942\) Apophis and Other Near-Earth Asteroids](#) [#2996]

Planetary flybys may be triggering avalanches on asteroids during planetary flybys. This may explain the presence of “unweathered” (Q-type) NEAs.

Marshall S. E. Howell E. S. Magri C. **POSTER LOCATION #166**
 Vervack R. J. Fernandez Y. R. et al.
[Thermal Modeling of Three Non-Spherical Near-Earth Asteroids](#) [#2995]

We are using three asteroids with well-determined shapes to investigate: How much does an asteroid’s shape affect thermal modeling results?

Hammergren M. Brucker M. J. Nault K. A. Gyuk G. Solonoi M. R. **POSTER LOCATION #167**
[NEO Follow-Up and Physical Characterization at Apache Point Observatory](#) [#2652]

An overview of a new program of near-Earth object astrometric follow-up and physical characterization using the Apache Point Observatory 3.5-meter telescope.

Sears D. W. G. Lee T. J. Dotson J. Bruck Syal M. Swift D. C. **POSTER LOCATION #168**
[A Meteorite Perspective on Planetary Defense](#) [#1608]

A study of meteorites and meteorite falls provides important information for understanding the hazards of asteroid impact and methods for deflection of PHAs.

Reddy V. Landis R. R. Sanchez J. A. Hardersen P. S. Burt B. et al. **POSTER LOCATION #169**
[Physical Characterization of Chelyabinsk-Sized \(~20 meter\) Near-Earth Asteroids: Implications for Impact Hazard, Meteorite Source Bodies, and Human Exploration](#) [#1289]

We characterized five near-Earth asteroids the size of Chelyabinsk (20 meters) to identify meteorite analogs and targets for human and robotic exploration.

Weaver R. P. Plesko C. S. Gisler G. R. Ferguson J. M. **POSTER LOCATION #170**
[An Overview of the Los Alamos Program on Asteroid Mitigation](#) [#1148]

LANL is starting a project to address the mitigation of PHOs. Kinetic and nuclear options are explored. Initial results from will be shown at this conference.

Hinkle M. L. Moskovitz N. A. Trilling D. E. **POSTER LOCATION #171**
 Binzel R. P. Thomas C. A. et al.
[The Taxonomic Distribution of Mission-Accessible Small Near-Earth Asteroids](#) [#1029]

MANOS is a physical characterization survey, studying small near-Earth objects. We present results from visible-wavelength spectroscopy component of that survey.

Cheng A. F. Reed C. Carnelli I. Michel P. Ulamec S. **POSTER LOCATION #172**
[AIDA: Asteroid Impact and Deflection Assessment](#) [#1386]

AIDA is an international cooperation between NASA and ESA to test spacecraft kinetic impact on an asteroid, to deflect the trajectory and measure the deflection.

Brucker M. J. Hammergren M. Nault K. A. Gyuk G. Solontoi M. R. **POSTER LOCATION #173**
[*Preliminary Results of Adler Planetarium NEO Characterization and Astrometric Follow-Up*](#) [#2726]

We present results from Q4 2014 and Q1 2015 observations at the APO 3.5 m for the Adler Planetarium's NEO astrometric follow-up and characterization program.

Vodniza A. Q. Pereira M. R. **POSTER LOCATION #174**
[*The Asteroid 2002 CE26*](#) [#1231]

We obtained the light curve of the Asteroid 2002 CE26 and astrometry was carried out. We calculated the orbital elements. Our data was published by the MPC.