

Tuesday, March 21, 2017
POSTER SESSION I: K–12 EDUCATION
 6:00 p.m. Town Center Exhibit Area

[T323]

Runyon C. J. Hall C. R. Nettles R. Minafra J. **POSTER LOCATION #361**
[*An Inquiry-based Approach to Understanding Small Bodies in Our Solar System*](#) [#1533]

A problem based engineering design challenge to develop a process or mission for redirecting an asteroid, which may or may not include harvesting or mining it.

Graff P. Foxworth S. Luckey M. K. Mcinturff B. Mosie A. et al. **POSTER LOCATION #362**
[*Using Virtual and In-Person Engagement Opportunities to Connect K-12 Students, Teachers, and the Public with NASA Astromaterials Research and Exploration Science Assets*](#) [#2910]

Virtual and in-person engagement opportunities provide valuable opportunities to engage K–12 students, teachers, and the public with NASA assets.

Milazzo M. P. Anderson R. Edgar L. Gaither T. Vaughan R. G. **POSTER LOCATION #363**
[*PLANETS: Planetary Learning that Advances the Nexus of Engineering, Technology, and Science: A Subject Matter Expert View of Curriculum Development*](#) [#2969]

Curriculum development from the viewpoint of integrated subject matter experts.

Jones A. J. P. Bleacher L. V. Buxner S. Canipe M. Joseph E. C. S. **POSTER LOCATION #364**
[*The Lunar Reconnaissance Orbiter's Lunar Workshop for Educators: 7 Years of Exemplary Professional Development for Science Teachers*](#) [#2765]

Want to get kids hyped / 'Bout planetary science? / Hook their teachers first.

Aponte-Hernandez B. Zambrano-Marin L. F. **POSTER LOCATION #365**
 Rodriguez-Ford L. A. Rivera-Valentin E. G.
[*The Arecibo Observatory Space Academy: STEM Engagement in Puerto Rico*](#) [#2585]

The Arecibo Observatory Space Academy (AOSA) is a pre-college, research program for high school students in Puerto Rico.

Zeigler K. W. Hanshaw B. W. **POSTER LOCATION #366**
[*Introducing Planetary Science Research to Students at George West High School, George West, Texas*](#) [#1301]

The ongoing program of asteroid CCD photometry and planetary science research at George West High School in George West, Texas is described.

Shaner A. J. Kramer G. Y. Nahm A. L. Bakerman M. Buxner S. et al. **POSTER LOCATION #367**
[*You Too Can Advise High School Researchers!*](#) [#2002]

Moon and asteroids / High school students researching / Advise you can, too.

Itoh M. Yoshimoto Y. Kohara M. Kato T. Fukushi H. et al. **POSTER LOCATION #368**
[*Survey of Space Education in Japanese High Schools and Possibility of Space Education Programs with a 3D-VR Software*](#) [#2159]

We report results of a survey on space education in Japan and introduce an attempt to develop educational programs with a 3D-VR software, Mitaka for VR.

Black D. V. Cortes E. Students **POSTER LOCATION #369**
[*Mars Exploration Through Project-Based Learning*](#) [#1916]

American Academy of Innovation students chose a Mars Exploration theme for our first school-wide Project-Based Learning experience. We report on our progress.

Klug Boonstra S. Christensen P. R. Boonstra D. W.
Swann J. L. Manfredi L.

POSTER LOCATION #370

[Formal and Informal Educators: Critical Gateways for Student Participation in Authentic Science](#) [#2658]

Supporting and enabling the teacher is perhaps the most critical and foundational element for designing a successful authentic research experience.

Shupla C. Bialeschki M. D. Shaner A. Smith Hackler A.

POSTER LOCATION #371

[Reaching New Audiences Through Camps](#) [#1606]

Camps are a new audience for planetary science engagement. We provide details and recommendations on ways scientists and educators can serve camp programmers.

Proctor S. H.

POSTER LOCATION #372

[Observatories at the Extreme: My Chilean Telescopes and Southern Sky Experience](#) [#1043]

The Astronomy in Chile Educator Ambassadors Program (ACEAP) is a program that brings astronomy educators to U.S. astronomy facilities in Chile.

Vizi P. G. Sipos A.

POSTER LOCATION #373

[Simulated Mars Rover Model Competition – More Than a Decade as a Research Area](#) [#2250]

Competition of Applied Engineering Sciences more than a decade. Solved controlling situations in ‘distant space’ missions, successful solutions during contests.

Patel P. P. Osinski G. R.

POSTER LOCATION #374

[The Public Education and Outreach Program at the Centre for Planetary Science and Exploration](#) [#2584]

This presentation describes current and future activities and the reach of the education and outreach program at the Centre for Planetary Science and Exploration.

Runyon K. D. Stern S. A. Lauer T. R. Grundy W.

Summers M. E. et al.

POSTER LOCATION #375

[A Geophysical Planet Definition](#) [#1448]

We teach students that a planet is a sub-stellar mass body that has sufficient self-gravitation to assume a spheroidal shape regardless of its orbit.