

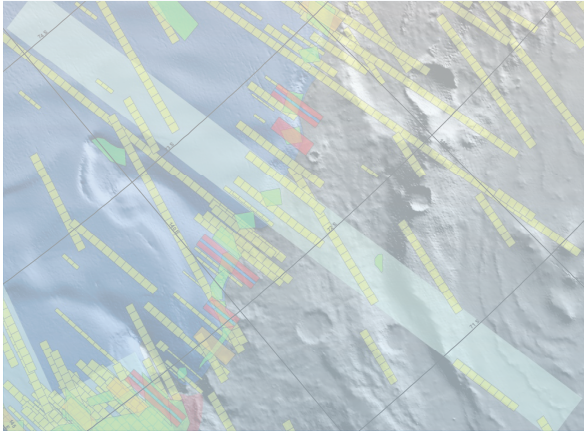
Space Imagery Center University of Arizona

Director:
Shane Byrne

Data Manager:
Maria Schuchardt



- Established in 1977, one of the original RPIF
- Library is 1200 sq. ft (with extra storage in basement)
- Personnel: Director, Shane Byrne
Data Manager, Maria Schuchardt
Student Assistant, Elizabeth Moreno
- Prints/Negatives/CDS of the following missions (~400,000)
Lunar Orbiter, Surveyor, Ranger, Apollo, Gemini,
Mariner 6 - 10, Pioneer 10 & 11, Voyager, Viking,
Pathfinder, Mars Global Surveyor, Magellan
- Maps: 1,900, not including duplicates
- Equipment: 2 Macs, 2 PC, flatbed scanner, film scanner,
document scanner, large format scanner, color printer, access to
large format printer, large format scanner
- Special Software: ArcGIS



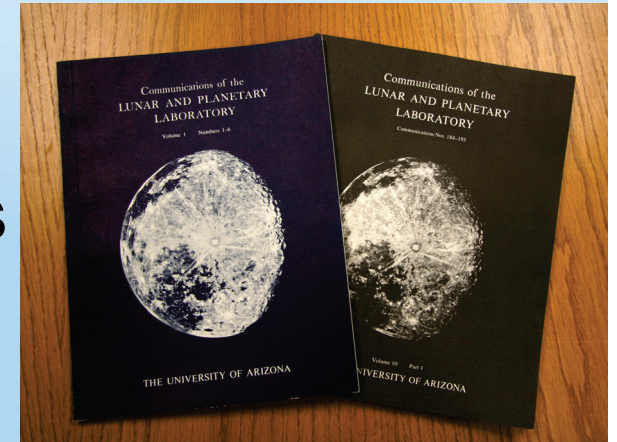
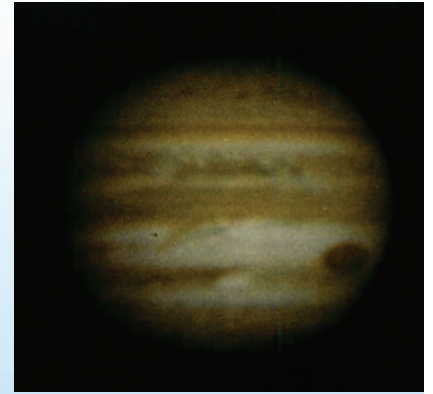
- Arc GIS software for researchers

- Meteorite kits for educators

- Earth based images of planets

- LPL Comm. Journals

- Planetary Analogue Geology Fieldguides



- Archiving and Services
- Mission and Research Support
- Education and Public Outreach

- 20 years of geologic fieldtrip guides scanned and made available on the web
 - LPL's Planetary Analogue Fieldtrip class
 - Covers a few hundred geologic stops
 - Widely distributed throughout the south-west

<http://www.lpl.arizona.edu/sic/fieldtrips/>



• Scanning of maps and atlases

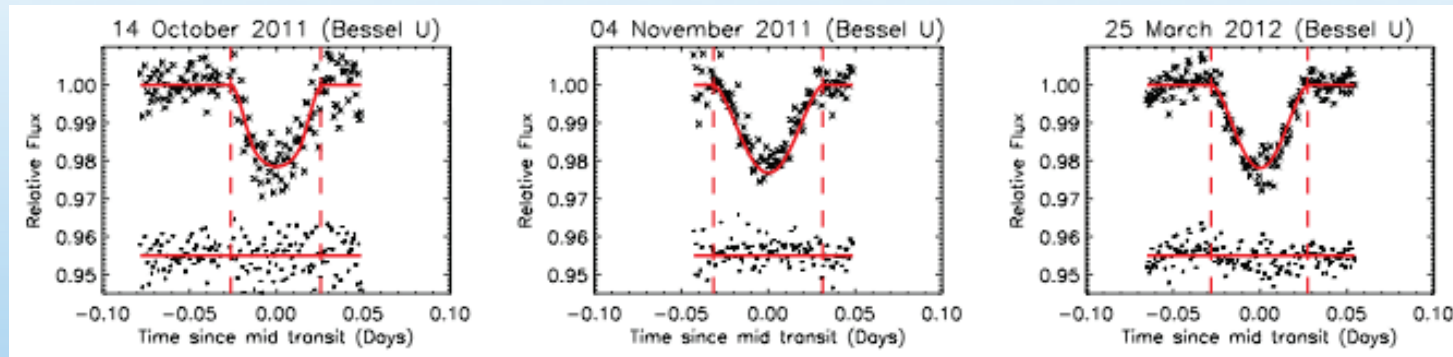
- Scanning in progress
- Not yet posted to website



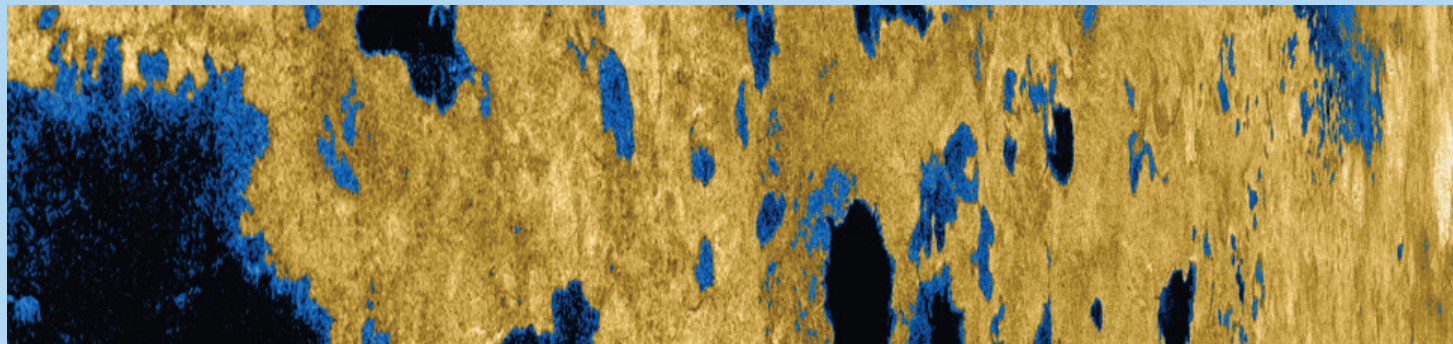


- Archiving and Services
- Mission and Research Support
- Education and Public Outreach

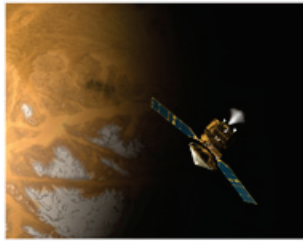
- Turner, J. D., and 25 colleagues (2012), Near-UV and optical observations of the transiting exoplanet TrES-3b, Month. Note. Royal Astron. Soc., 48.



- Sprague et al. (2012), The lunar sodium atmosphere: April-May 1981, In Press.
- Investigations of Titan's topography and surface roughness / by P. Sharma. PhD. dissertation.

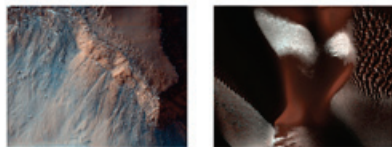


Space



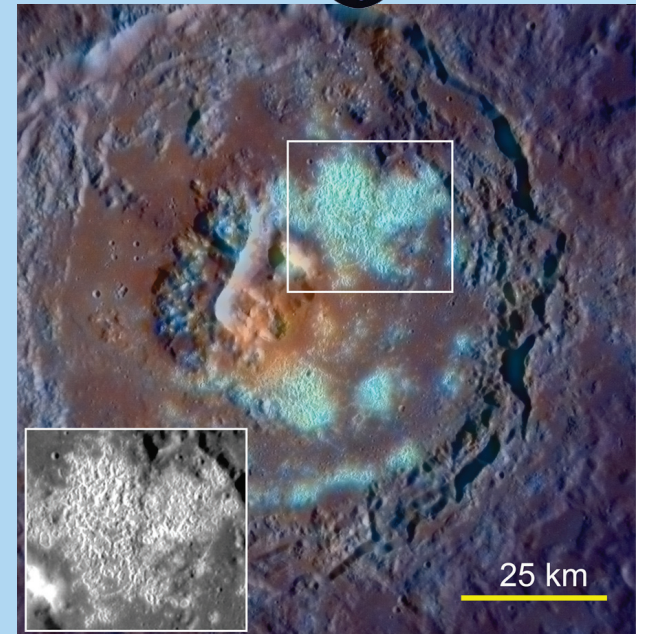
HIRISE

HIGH RESOLUTION IMAGING
SCIENCE EXPERIMENT

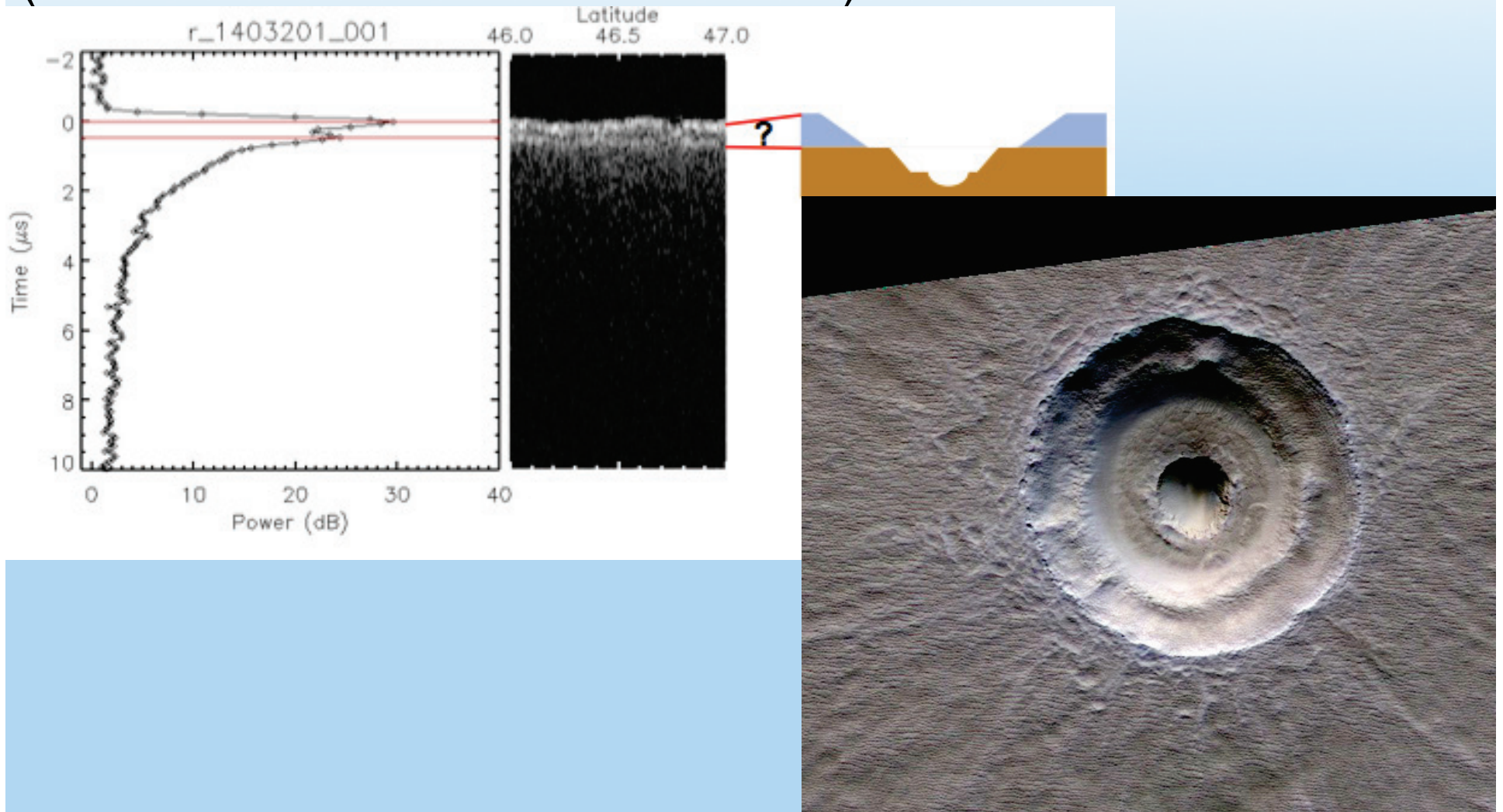


UAHIRISE.ORG

- HiRISE
- OSIRIS-REx
- MESSENGER

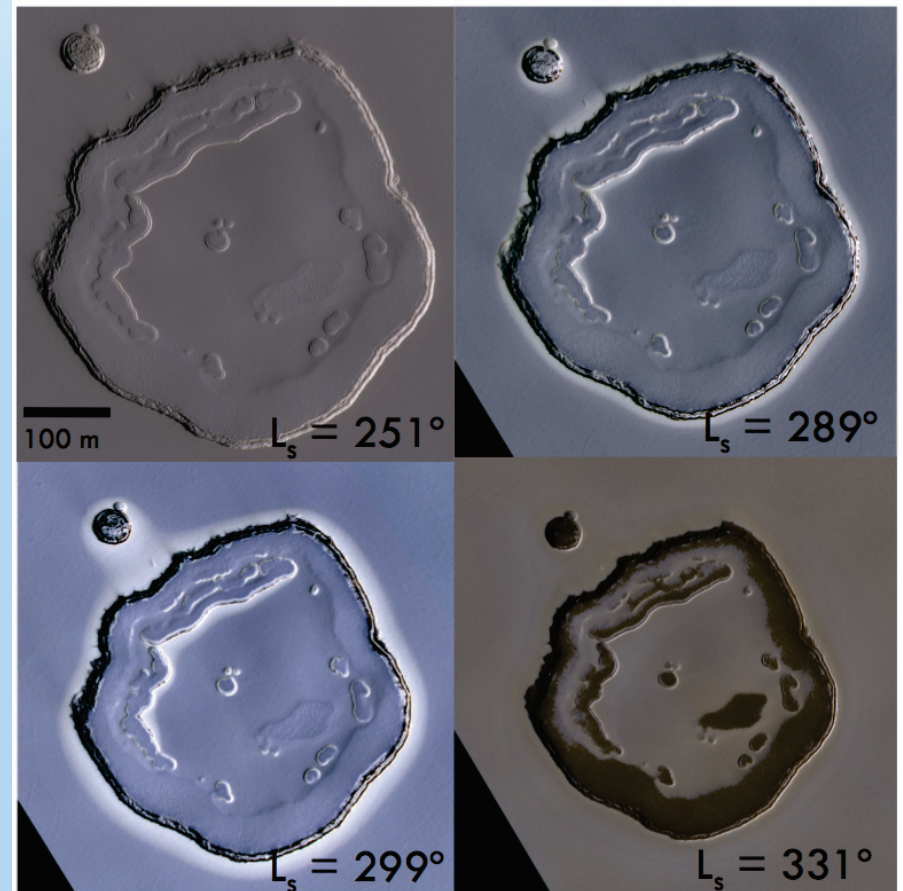


- ArcGIS software to assist ongoing research
Image search underway to identify more terraced craters
(Look for Bramson et al. at this LPSC)



- Search of older datasets for unusual events
- Martian frost halos still a once-off occurrence

(Look for Becerra et al. at this LPSC)



- Archiving and Services
- Mission and Research Support
- Education and Public Outreach

Classes

LASC 195A
Water and Life on Mars

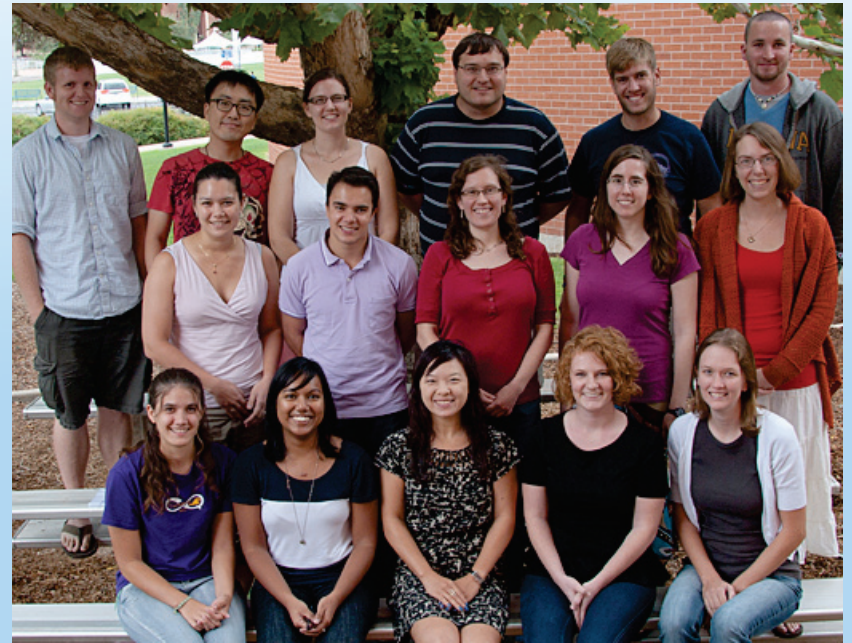
PTYS 170B1
The Universe and Humanity:
Origin and Destiny

PTYS 206
The Golden Age of Planetary Exploration

PTYS 214
Astrobiology: A Planetary Perspective

PTYS 554
Evolution of Planetary Surfaces

4 to 5 classes per semester
~1800 students this year



PTYS 594, Planetary
Geology Fieldtrip
Death Valley, Spring 2012



PTYS 594, Planetary Geology Fieldtrip Circum-Tucson, Fall 2012



- Men's Club (90)
- Great Paper Airplane Project
- UA Children's Festival (80)
- Math Moves You (200)
- Math and Science Funfest (420)
- Yuri's Night (15)
- Tucson Festival of Books (~1,000 people)
- Venus transit (42)
- Fair for Educators (73)
- Science Downtown (102)
- College of Science MSL landing event
- Pima Community College Earth Day (102)
- AZ Science & Astronomy Expo (300)

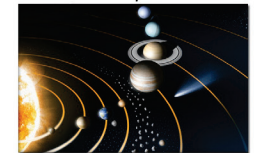


The Space Imagery Center, a NASA Regional Planetary Image Facility (RPIF), located in the Lunar and Planetary Laboratory on the University of Arizona campus, provides tours and in school presentations on the topics to the right. Please contact Maria for more information.

Phases of the Moon



Solar System



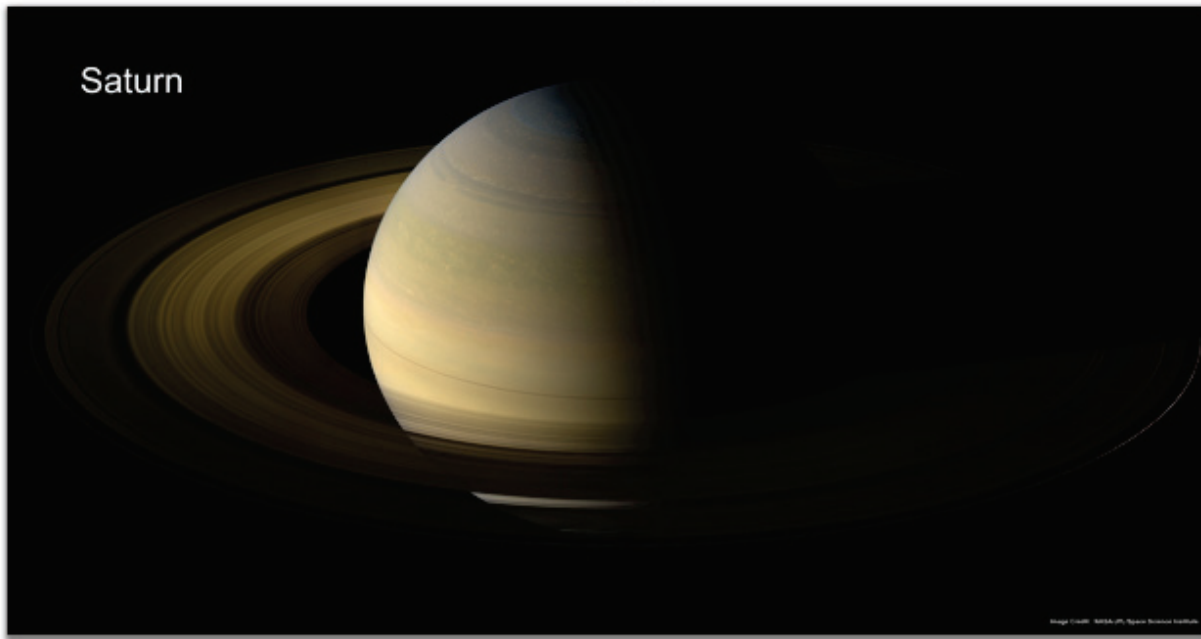
Impact cratering





**Displays on MSL, lectures, children's activities, martian meteorites
693 visitors**

Rincon High School



*"Whatever you can do, or dream you can do, begin it.
Boldness has genius, power, and magic in it. Begin it now."
-Goethe*



- February 2012, 200 students

- Sierra MS (360/3 days)
- Presido School (60)
- Harrelson MS Sci. Night (40)
- Wright MS (60)
- LASC 195A (19)
- Ventana Vista Star Party (30)
- Monte Vista School (90)
- Utterback MS (80)
- Satori Charter School (17)
- Wilson MS (90)
- Space Fest Visitors (14)
- Girls from Pueblo HS (13)
- Girls from Desert View HS (16)
- Middle School Teacher workshop (10)
- Norwegian Adults (25)
- Norwegian High-Schoolers (10)



>900 in total

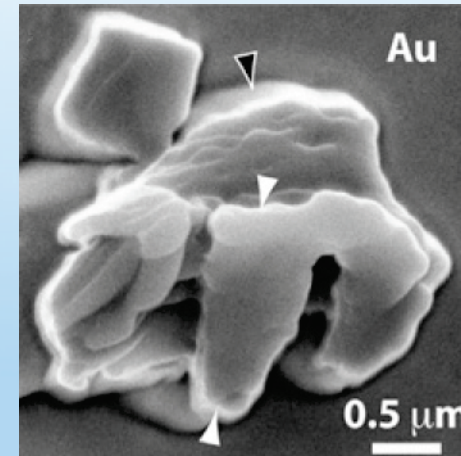
Where Did All Earth's Water Come From?

Ilaria Pascucci (133)



Laboratory-based astronomy at the nanometer scale

Tom Zega (120)



***Weather and climate on planets
orbiting other stars:
a new frontier in planetary science***
Adam Showman (103)



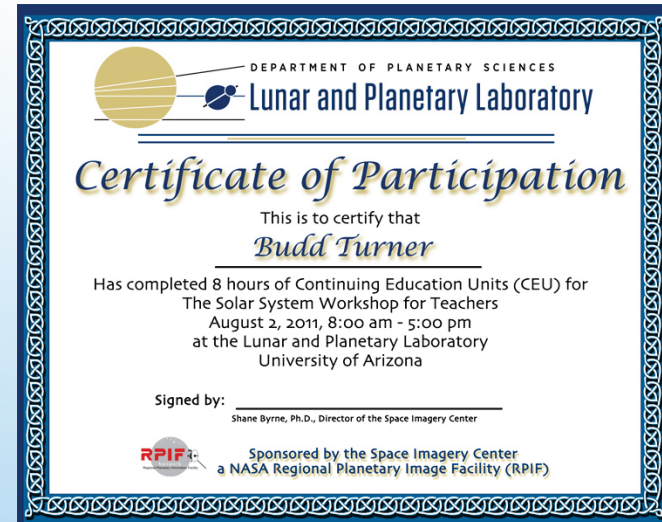
Lectures are available on iTunes



- UA College of Science
- Arizona Space Grant
- Biosphere 2
- Math Moves You
- Flandrau Science Center
- Pima Air and Space Museum
- Girl Scouts
- Kuiper Circle Community Outreach Committee



Fall 2012 workshop is
postponed to Jan. 2013



- **Collection and services**
 - Assembly of more GIS databases
 - Surveyor scanning?
 - Scanning various maps and atlases in the collection (Avoid duplicates of LPI work)
 - Publishing these on our website
- **Missions and Research**
 - Continue supporting requests that come up
- **Education & Public Outreach**
 - Summer Open House event – similar to our MSL event this year.
 - Evening lecture series
 - 2-day Teacher workshops x2
 - Continue present activities in supporting UA classes, visiting local schools, giving public talks, partnering with local museums, supporting Tucson events etc...