Did You See the Moon Last Night?  
Scientific Inquiry through Writing, Art, and Observation  
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PROJECT ASTRO  
Tucson  
Astronomers and Teachers as Partners for Learning  
Year-Five Workshop Schedule

Friday, October 13  
National Optical Astronomy Observatory  
950 N. Cherry Ave.

12:30  
Arrive and Welcome

1:00 – 2:00  
Presentation  
Moon Journal Author’s intricate techniques to be used while  
observing at Kitt Peak  
(Joni Chance & Gina Foster-Zodrow)

2:00 – 3:00  
Lunar Scientific Presentation  
Lunar and Planetary Scientific talks on Lunar exploration  
(Professor Robert Strom)

3:00  
Bush Lecture NOAO for Kitt Peak  
National Observatory

3:00  
Watch a Private Universe — discuss student misconceptions.

4:30  
Kitt Peak Visitor Center

5:00 – 6:00  
Tohono O’odham Storytelling  
Introduction to Storytelling  
(Toni Mote)

5:30  
Gather for Sunset  
Refreshments provided to enjoy at sunset.

5:53  
Sunset  
Moonrise

6:37  
Practice sketching and developing questions

7:00 – 9:00  
Night Sky Observing  
Use binoculars and the 14-inch Visitor Center Telescope to observe  
the night sky, record sketches and questions.

Saturday, October 14  
National Optical Astronomy Observatory  
950 N. Cherry Ave.

9:00  
Arrive and Welcome

9:30 – 10:30  
Recap of Evening at Kitt Peak  
Discuss observations, sketches and questions  
(Joni Chance & Gina Foster-Zodrow)

10:30 – 11:30  
Activity  
Moon Phase Pictures, and Phases of the Moon Activity  
(Larry Daniels)

11:30 – 12:30  
Lunch  
Catered Lunch on NOAO Patio

12:30 – 2:30  
Activity  
Moon Journal Activity present activity to integrate writing, art,  
and inquiry using astronomy books  
(Joni Chance & Gina Foster-Zodrow)

2:30 – 3:30  
Activity  
The Thousand Yard Model - Also called Earth As A Pepperoni  
— Using common objects, participants create a scale model of the  
solar system that demonstrates the relative sizes and  
distances in the Solar System  
(Michael J. Ramos Crawford)

3:30 – 4:00  
Recap Activity  
How can this activity be used in your classrooms?

4:00 – 4:30  
Planning & Program Evaluation  
Planning with your partner - Exchange contact information and  
set-up astronomers for visit.

Evaluation  - Forms are in your folder — please complete and turn  
in before you leave today. Thanks!

RESERVE THIS DATE  
Follow-Up Workshop, March 24, 2001

Led by NOAO Educational Outreach, the Project ASTRO-Tucson site has joined with this year’s project leader, Joni Chance and Gina Foster-Zodrow to develop a workshop exploring the integration of astronomy, inquiry, writing, and art. This interdisciplinary workshop is intended for teachers in grades 3-5 and astronomers who work with them as Project ASTRO volunteer partners. Teachers and astronomers learn to guide their students through a month of lunar observations and explore questions that arise through writing, art, and scientific inquiry. This work is funded by the National Science Foundation and NASA/NOAO Grants, Proposal FED-90207.01-89A.

Workshop Goals

- Develop exploratory, interdisciplinary project
- Treat teachers & students as scientists, explorers, and discoverers
- Bring together key elements of existing programs
- Increase the use of scientific inquiry integrated with art and writing in classrooms

Workshop Features

- Hands-on activities about the Moon from NASA Educational Programs and Project ASTRO
- Formal instruction and modeling of inquiry as a pedagogical model
- Lunar observations, naked-eye and with the Kitt Peak Visitor Center 10” public telescope
- A pool of trained amateur and professional astronomers willing to visit classrooms in support of this project
- Art and writing invitations to express the lunar observations
- Scientific expertise drawn from organizations represented by the Project ASTRO-Tucson Coalition, including NOAO, University of Arizona’s Steward Observatory and Lunar and Planetary Lab, the Tucson Unified School District, the Tucson Amateur Astronomy Association, and Pompeii Associates

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