

Did You See the Moon Last Night?

Scientific Inquiry through Writing, Art and Observation

S.H. Jacoby, G.L. Beal (NOAO)

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 Journals Authors introduce techniques to be used while observing at Kitt Peak
(Joni Chancer & Gina Rester-Zodrow)

2:00 — 3:00 Lunar Scientific Presentation

Lunar and Planetary Scientist talks on Lunar exploration
(Professor Robert Strom)

3:00 Bus Leaves NOAO for Kitt Peak
National Observatory

Watch "A Private Universe", discuss student preconceptions.

4:30 Arrive Kitt Peak Visitor Center

Lead Observer Adam Block will host our evening of observing. Activities include Tohono O'odham storytelling and introduction to scientific journal writing.

4:30 — 5:30 Tohono O'dham Storytelling

Introduction to Storytelling
(Danny Lopez)

5:30 Gather for Sunset

Sack dinner will be provided to enjoy at sunset.

5:53 Sunset
6:37 Moonrise

Practice sketching, and developing questions

7:00 — 9:00 Night Sky Observing

Use binoculars and the 16" 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 Chancer & Gina Rester-Zodrow)

10:30- 11:30 Activity

Moon Phase Pictures, and Phases of the Moon Activity
(Larry Dunlap)

11:30 — 12:30 Lunch

Catered Lunch on NOAO Patio

12:30 — 2:30 Activity

Moon Journals Authors present activities to integrate writing, art, and inquiry, using astronomy topics
(Joni Chancer & Gina Rester-Zodrow)

2:30 — 3:30 Activity

The Thousand Yard Model - Also called Earth As A Peppercorn — Using common objects, participants create a scale model of the solar system that demonstrates the relative sizes and distances in the Solar System
(Michael & Renee Crawley)

3:30 — 4:00 Recap Activity

How can this activity be used in your classroom?

4:00 — 4:30 Planning & Program Evaluation

Planning with your partner - Exchange contact information and set up astronomers first 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 authors Joni Chancer and Gina Rester-Zodrow to develop a workshop exploring the integration of astronomy, inquiry, writing and art. This interdisciplinary workshop is intended for teachers in grades 2-9 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 IDEAS Grants, Proposal #ED-90207.01-99A.

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 16" 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 Pompea & Associates

