## PROJECT ASTRO
### Tucson
**Astronomers and Teachers as Partners for Learning**

**Year-Eight Workshop Schedule**

*Held at the University of Arizona’s Student Union “Tucson Room”, 3rd floor*

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### Friday, October 3

<table>
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<th>Time</th>
<th>Activity</th>
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| 8:30 – 9:00 | **Check-In & Ice Breaker**  
Meet your partner and ASTRO staff. Ice Breaker: Can you and your partner place the lunar phases in order? *(UYAF Activity A-1)* |
| 9:00 – 9:30 | **Welcome and Overview**  
Overview of program and materials via a scavenger hunt. |
| 9:30 – 10:30 | **Activity I**  
The Thousand Yard Model – Using common objects, create a scale model of the solar system that demonstrates the relative sizes of and distances between planets. *(UYAF Activity D-7)* |
| 10:30 – 10:45 | **Break** |
| 10:45 – 11:45 | **Talk by Dr. Charles Wood**  
Noted Planetary Scientist and author, past astronaut trainer and present Director of Education at Biosphere 2, Dr. Charles Wood will give a talk on the Moon. Dr. Wood heartily welcomes questions during his talk. |
| 11:45 – 12:45 | **Lunch in the Student Union** |
| 12:45 – 2:15 | **Activity II**  
*Moon Journal* activity (Part 1) that integrates art, writing & inquiry, in preparation for your experience at Kitt Peak. |
| 2:15 – 2:30 | **Break** |
| 2:30 | **Bus Leaves for Kitt Peak National Observatory**  
Watch the video, *A Private Universe*; discuss the evening’s overview of activities. |
| 4:00 | **Arrive at Base of 4m Telescope** |
| 4:00 – 4:15 | **Activity III**  
Watch & record the rising Moon rise (starts at 2:35pm). *(UYAF activity A-2)* |
| 4:20 – 5:00 | **Activity IV/ Tour of 4m Telescope**  
Explore phases of the Moon using Styrofoam balls *(UYAF Activity A-3)* and the relative distances between and sizes of the Earth, Moon and Sun. |
| 5:05 – 5:45 | **Tour of 4m Telescope/Activity IV** |
| 5:50 – 6:15 | **Gather for Sunset & Activity V**  
Gather outdoors to enjoy sunset at 6:06pm. Journal the location of sunset on the horizon *(UYAF Activity B-3)* |

### Saturday, October 4

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<th>Time</th>
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<td>6:15 – 6:55</td>
<td><strong>Dinner a la Sunset</strong></td>
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| 7:00 – 9:00 | **Night Sky Sunset**  
Use the 20” and 16” Visitor Center Telescopes, portable telescopes binoculars, and star finder charts to observe the various wonders of the night sky. |
| 8:30 – 8:45 | **Check-In** |
| 8:45 – 10:45 | **Activity VI**  
Kinesthetic Astronomy involves the teaching of basic astronomical concepts through choreographed bodily movements and positions |
| 10:45 – 11:00 | **Break** |
| 11:00 – 12:00 | **Talk & Activities with Dr. Prather**  
Science Education Specialist, Dr. Prather facilitates discussions and activities on student misconceptions about astronomy. |
| 12:00 – 12:45 | **Lunch in the Student Union** |
| 12:45 – 2:15 | **Activity VII**  
*Moon Journal* activity (Part 2) that integrates art, writing & inquiry, using your experience at Kitt Peak as inspiration. |
| 2:15 – 2:45 | **Activity VIII**  
Planet Quest is a set of 5 activities on looking for planets around other stars using various types of observations and detection methods. |
| 2:45 – 3:00 | **Break** |
| 3:00 – 3:45 | **Activity IX**  
Comet Making *(UYAF activity E-3)* |
| 3:45 – 4:30 | **Activity X**  
Crater Making *(UYAF activity E-1)* |
| 4:30 – 5:00 | **Partner Planning**  
*Use the Partner Planning Form* to exchange contact information and set up the astronomer’s first visit. |
| 5:00 – 5:15 | **Program Evaluation**  
*Evaluation* Forms are in your folder – please complete and return before you leave today. Thanks! |
| 5:15 | **A Gift Bag for You with Our Thanks!** |

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*Keep calendars open for the star party at the Levys’ Jarnac Observatory scheduled for February 28, 2004.*