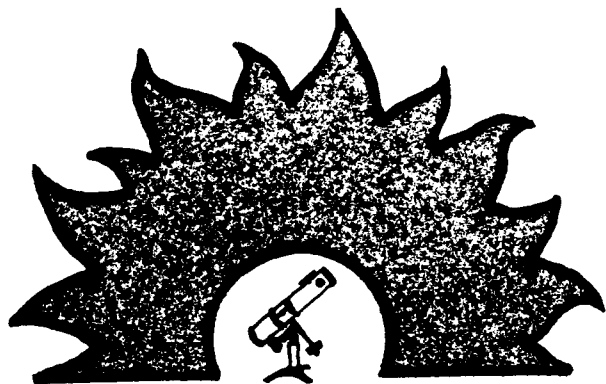




January, 1990

PASTIMES

PHOENIX ASTRONOMICAL SOCIETY -- FOUNDED 1948

**The Meeting is January 19th, at Brophy Prep.
(see map on the last page)**

Our meetings are at Brophy Prep. Brophy is located about a quarter mile south of Camelback Road, at the Highland Ave intersection. The meeting will be at **7:00 PM** in the Physics lab on the second floor.

The next Meeting will be February 16th.

Alfred Flowers, a long time member of our group, will be giving a presentation of his recordings of the Space Shuttle Astronauts and their on-board experiments. He will also be showing tapes from the Voyager flybys of Voyager of Uranus and Neptune. All gathered from NASA-Select.

It Happened at the Last Meeting...

by Kai Staats

The December meeting began with disappointing news as our expected speaker, Tim Hunter, was forced to cancel on short notice, due to an emergency at home. However, Dan Heim came through for us with a newly purchased set of slides produced from the Voyager flybys of Uranus and Neptune. The slides were a spectacular array of photographs which created a great deal of discussion and speculation. Dan also treated the members to packets of freeze dried ice cream. Although a few found they enjoyed the "flavored chalk", many decided that would take the rest home to their kids. It was decided that it must taste better at zero gravity.

For Sale / Want Ads

This space is available for the inclusion of Ads that are intended for buying or selling of Astronomical equipment. Send your Ads to Paul Dickson. The deadline is the meeting night.

For Sale: Eyepieces: 6mm, 8mm, 12.5mm, 18mm, 25mm \$25 each; Barlow 2x \$20; 60mm Objective in Tube \$10; Prisms, Grinding Materials, and other Accessories. Pat Paoloni, 4316 E. Blanche Dr., 493-8049

Your 1989/1990 **PAS** officers:

President	Kai Staats	253-3077
Vice President	Mark Johns	866-8311
Secretary/Treasurer	Keith Parizek	996-1013
Newsletter Editor	Paul Dickson	841-7044
Director	Hermann Andreason	997-8759
Director	Dan Heim	482-8133
Director	Dick Wasson	279-0384

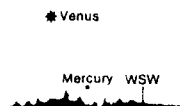
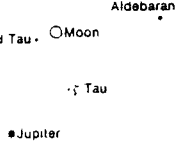
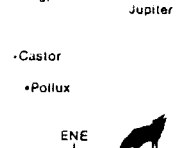
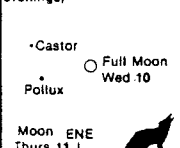
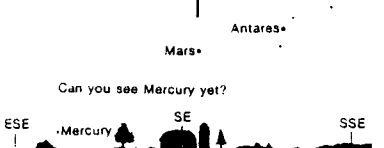
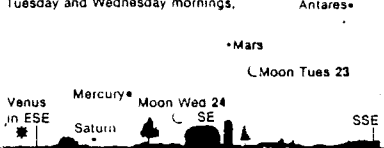
Items to be included should be sent to Paul Dickson, 7714 N 36th Ave, Phoenix, Az. 85051

Central Arizona Astronomers

East Valley Astronomy Club
Phoenix Astronomical Society
Saguaro Astronomy Club

January 1990

Calendar of events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 Venus 25° from Sun. Can you see Mercury within 11° to Venus' lower right?  Mercury WSW	2	3 Venus is an impressive view through the telescope - close to the earth, backlit and showing crescent phase. <u>Quadrantid meteors</u>	4 First quarter moon	5	6
7	8 Evening:  Aldebaran Jupiter	9 Tuesday evening, Moon  Castor Pollux ENE	10 EVAC Meeting 7:30pm at Scottsdale Community College (open to public) Full Moon	11 Wed & Thurs evenings,  Castor Pollux Full Moon Wed 10 Moon ENE Thurs 11	12 SAC Meeting 7:30pm at Grand Canyon University (open to public)	13
14 For remainder of month, watch Mercury, Venus and Saturn emerge as morning stars.	15	16  Antares Mars Can you see Mercury yet? ESE Mercury SE SSE	17	18 Last quarter moon	19 PAS Meeting 7:00pm at Brophy Prep (open to public)	20 SAC Star Party at Buckeye Hills (members and guests)
21	22	23 Tuesday and Wednesday mornings,  Antares Mars L. Moon Tues 23 Venus in ESE Mercury Saturn Moon Wed 24 SE SSE	24	25	26 EVAC Star Party at Utery Park (members and guests) New moon	27 EVAC Deep Sky Group at Southern Site (members and guests)
28 Sunday evening:  Moon WSW	29	30	31	Calendar graphics reprinted with permission from <i>Sky Calendar</i> ; subscription to the complete monthly <i>Sky Calendar</i> are available at \$6.00 per year from Abrams Planetarium, Michigan State University, East Lansing, MI 48842.		

Naked-Eye Planets

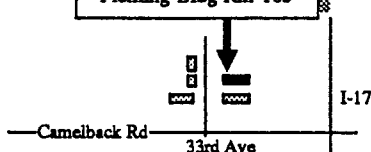
Venus - brilliant in western sky at sunset, moving to morning sky by end of month.
Saturn - in conjunction with sun, emerging into morning sky by the end of the month.
Mercury - low in the west at sunset, moving to the morning sky by midmonth.
Jupiter - rises at dusk, visible all night all month.
Mars - rises approximately two hours before the sun.

Quadrantid Meteor Shower

The first of 1990 and perhaps the best shower of the year. During the peak of the shower on January 3rd, expect to see an average of forty to fifty meteors an hour from a dark-sky site. The peak occurs early in the evening, however, observing may be best after midnight on January 3rd - after the first quarter moon has set. Look for the radiant in northeastern Bootes. These meteors are characteristically blue with long trails and an average magnitude of 2.3.

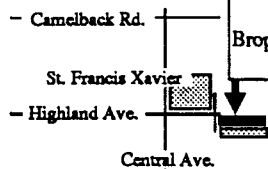
SAC Meetings

Grand Canyon University
Fleming Bldg Rm 103



PAS Meetings

Brophy Prep Physics Lab
(2nd. Floor)



EVAC Meetings

Scottsdale Community College
Science Behavioral Bldg Rm 161

