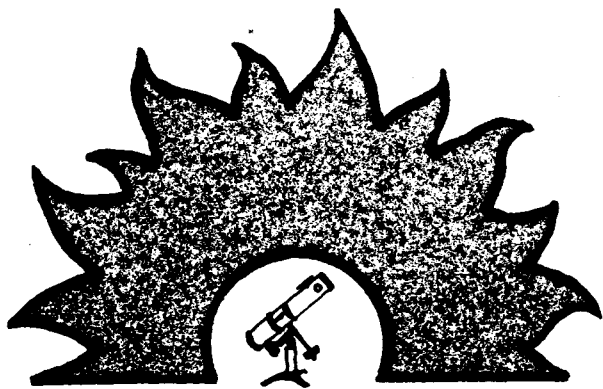




APRIL 1986

PASTIMES

PHOENIX ASTRONOMICAL SOCIETY -- FOUNDED 1948

APRIL MEETING APRIL MEETING APRIL MEETING APRIL MEETING APRIL MEETING APRIL

Our annual business meeting will be held on Friday, the 25th of April at Phoenix College, Room C-102 at 8:00 p.m. (see map on back of newsletter).

Election of officers will be held at this meeting (see article below), and members are invited to bring in all their pictures of Comet Halley for "show and tell."

NOMINATING COMMITTEE REPORT

Nominating committee member Stan Gorodensi reports that the following club members have agreed to run for office.

President: Bill Krist

Vice President: Richard Wasson

Secretary/Treasurer: Harold Moorin

Director: Trevor Tuffin

Director: Raul Espinoza

Director: (the third directorship is currently held by Robert Pribenow and is not up for election until 1987)

Editor: Steve Lewis

Nominations from the floor will be accepted at the April meeting should you have another candidate in mind. But please be kind -- don't give some unsuspecting soul heart failure by not letting him/her know your intentions. And in case you are wondering what the officers' responsibilities are . . .

President: Presides over regular monthly meetings, Board of Directors meetings, annual business meetings, and works closely with the Vice President and Directors in the planning and preparation

NINTH ANNUAL ASTRONOMY DAY

Saturday, April 19th marks the ninth annual Astronomy Day public viewing event, this year again sponsored by the Saguaro Astronomy Club (SAC). The Glendale Parks and Recreation Department has offered Thunderbird Regional Park as this year's site for club members to use in giving the general public a close-up look at the heavens.

Coordinating this year's event will be Gene Lucas, and he has indicated that even with limited publicity we can expect a good turnout, especially with Halley's Comet still in the picture. Gene would like to see PAS and SAC telescopes set up by 5:30 p.m. in time for a pre-event briefing at 6:00 p.m.

There are restroom facilities there, as well as park security but no power will be available so bring your drive correctors/power inverters. Gene also suggests bringing step stools (for our shorter guests), binoculars, and some knowledge of the best objects for viewing (like M3, M44, M104, Gamma Leonis, Mizar, Izar, the Moon, and Halley). For more info call Gene at 934-1889.

-- Nominating p2

Nominating -- continued

of monthly programs, including arrangements of speakers, films, field trips, etc. from September thru May of each year.

Vice President: Performs all of the duties of the President in the event of his absence, plus with the assistance of the President and Board of Directors helps plan and prepare monthly programs.

Secretary/Treasurer: Records the minutes of each meeting, corresponds with other organizations, collects all Society dues, and keeps records of all paid members. The Secretary/Treasurer also keeps records of all Society funds and disbursements, and makes payment of all **Sky & Telescope** subscriptions as well as other payables.

Directors: Share direct responsibility with the President and Vice President for program planning. Directors serve a two year term and must attend the two to four Board meetings held each year.

Editor: Prepares and distributes all printed materials, including the PAS Newsletter, announcements, by-laws, and membership lists.

FOR SALE: Tasco 60 mm refractor -- 1000 mm focal length with 20 mm, 12.5 mm, and 6 mm eyepieces, 3X barlow, diagonal, terrestrial prism, sun filter, sun viewing screen, camera adapter, equatorial mount, and wooden carrying case. Excellent condition. \$300.00 or best offer. Dave Usher 275-5513

FOR SALE: Black film changing bag, 15" X 15" -- \$8.00
Bill Krist 254-4057

SPECIAL THANKS to Jerry Maurer for providing the club with copies of his Halley Ephemeris. Sharing the fruits of his computer was a generous and thoughtful act!

NOTES FROM OUR SECRETARY

Our thanks go to **Gerry Rattley**, President of the Saguario Astronomy Club and Regional Coordinator of the International Occultation Timing Association (IOTA) for a fine presentation on occultations -- particularly Lunar Grazing Occultations where a body passes behind one of the Moon's "limbs", flashing thru mountain peaks to give us a geological lunar picture, usually within four minutes time.

Gerry said that because most data is contributed by amateurs, volunteers are welcomed -- as long as they have the needed equipment. To gather occultation data you need 1) your proper position on Earth (using U.S. Geological Survey maps), 2) Universal Time signals (tuning to WWV on the shortwave band), 3) a portable tape recorder (start/stop five minutes before/after), and 4) minimum 6" scope at about 100 power. If you'd like to participate in occultation research and have the aforementioned equipment, contact Gerry at 892-5698. For those interested in reading up on the subject, the only book available seems to be the **Graze Observer's Handbook** by **Harold R. Povenmire**, available thru Willman-Bell (look in **Sky & Telescope**) for \$11.00.

Other highlights of our meeting included **Bill Krist** showing the slides he processed at our December meeting and some of Halley's Comet. New member **Sam Insana** passed around some fine prints of Halley he took recently. **Chuck Nash** promoted the new Uranus flyby poster available thru Astromedia Corp. for \$6.95. And **Gene Lucas** of SAC was kind enough to brief us on the upcoming National Astronomy Day event SAC is sponsoring

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*	President	Bill Krist		254-4057	*
*	Vice President	Richard Wasson		279-0384	*
*	Secretary/Treasurer	Harold Moorin		933-8896	*
*	Director	Robert Pribbenow		275-2786	*
*	Director	Vernon Weakland		247-5720	*
*	Director	Trevor Tuffin		948-3126	*
*	Editor	Steve Lewis		955-1205	*
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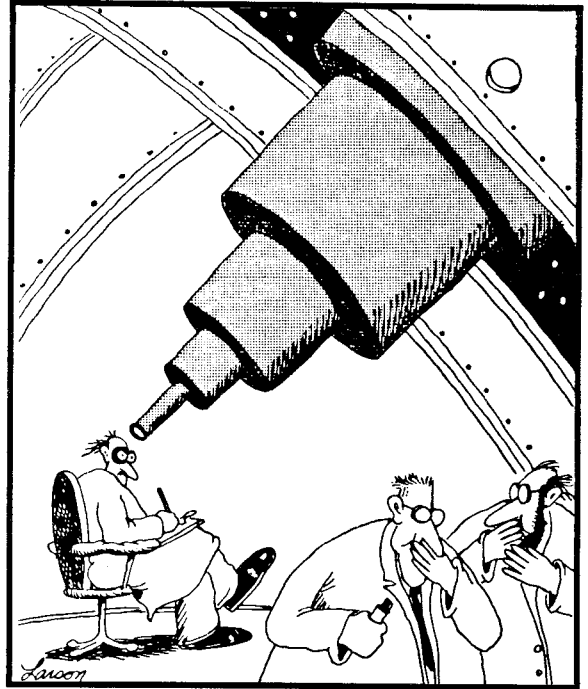
on the 19th (see page 1 and map with directions on back page). Our members are invited to bring their scopes to help introduce the public to the wonders of the heavens.

Our Editor, **Steve Lewis**, reports that our newly designed stationery is ready for printing -- just awaiting the results of this month's election of officers.

Treasurer's Report: As of the March meeting we have a total of \$2954.05 in our checking, CD, and Money Market accounts. ✓

As a final note I'd like to share a recent experience in which I was invited to speak to children of the Canyon school district in Black Canyon City. After taking these youngsters on an imaginative tour of the universe, I fielded a veritable Oort Cloud of questions -- on everything from Halley's Comet to who caused the "Big Bang." It was a rewarding experience that I recommend for all members to try. Not only did I make about 150 new little friends, but maybe some day a new PAS member or two will come from that group.

-- **Harold Moorin**



CALENDAR

- 4/17 Moon first quarter; Sigma Leonid meteors; Comet Halley at opposition
- 4/19 Ceres stationary; National Astronomy Day
- 4/21 Lyrid Meteors
- 4/22 Lyrid Meteors
- 4/23 Lyrid Meteors; Comet Halley moves beyond Mar's distance from the Sun; Passover begins at sunset
- 4/24 Full Moon; total lunar eclipse over western North America and the Pacific Ocean
- 4/25 Moon at perigee; PAS business meeting
- 4/26 Pluto at opposition, on the meridian at 10 p.m.; Saturn 5° north of Moon; Antares 1.1° south of Moon, occultation; Saturn 7° north of Antares
- 4/27 Daylight Savings Time begins; Uranus 4° north of Moon
- 4/28 Neptune 6° north of Moon
- 4/29 Mars 4° north of Moon
- 4/30 Moon at last quarter
- 5/3 Jupiter 3° north of Moon; Vesta 0.9° south of Moon, occultation; Eta Aquarid meteors (derived of Halley)
- 5/4 Eta Aquarid meteors
- 5/5 Venus 6° north of Aldebaran; Eta Aquarid meteors
- 5/7 Mercury 2° south of Moon
- 5/8 New Moon
- 5/10 Moon at apogee
- 5/11 Venus 3° south of Moon
- 5/16 Moon first quarter