



The Guide Star



**Mingo Creek Park
Observatory**

Newsletter of the Amateur Astronomers Association of Pittsburgh, Inc.
Founded June 9, 1929 by Chester B. Roe and Leo J. Scanlon
Website: www.3ap.org



**Nicholas E. Wagman
Observatory**

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24" Ritchey-Chretien Telescope arrives at Mingo

A number of AAAP members were present the evening of June 1, 2006 to take delivery of the long awaited 24-inch RC Telescope from Optical Guidance in Huntingdon, PA. A representative brought the telescope to Mingo from the firm. The scope was placed in a large wooden crate and brought to us on a trailer attached to an SUV.

After a bit of debate, it was decided if we could lift the huge crate with the telescope still inside, we would simply pick it up and carry it inside the building, and this is exactly what we did! About 10 "pallbearers" safely carried the instrument inside the doors of Mingo Observatory and rested our sweet package on the floor inside. Next, furniture dollies were positioned under the crate and the entire thing was pushed to the "Ritchey" Telescope Room. From here we positioned the crate on its side and "rolled" out the 24-inch telescope.

The telescope tube rings were the next order of business to be installed. Then, using a hoist attached to

the framework of the roof the entire instrument was positioned along the telescope's equatorial mount and carefully attached. Images of this event are at: <http://al-paslow.smugmug.com/gallery/1518184/1>.

We were quite happy as the last members to leave closed up shop after 1:30 a.m. Due to late delivery and installation of this telescope, further adjustments and precision balancing of the instrument are necessary and will be carried out as soon as possible...but the scope is in!!!!!!

Special thanks to Flacc for his assistance and use of the hoist setup—and also all who attended to make it possible! (Kathy DeSantis, Dave Smith, Ed Moss, George Guzik, Larry McHenry, Dave Houggy, Flacc Stifel, Gene Kulakowski, Mike Meteney, myself and others).

Al Paslow
Associate Director Mingo Creek Park Observatory

SETTING UP THE NEW 24"



Once the telescope was unpacked from the wooden crate 2 very large aluminum mounting rings needed to be placed very carefully along the tube.



Next we attached straps to the tube in order to raise it by using a come-along attached to the rafters in the roof.

THIS IS WHAT IT'S ALL ABOUT



Girl Scouts at Mingo

Compiled from the listserver by Ann Norman

Thursday, June 15, 2006 about 65 members of ten different Girl Scout groups attended a private star party at Mingo Observatory & Planetarium. Connie Robinson of the Charleroi Branch held a Girl Scout Day Camp at shelter # 10, which is located on the road just below Mingo Observatory. Some of the Girls Scouts slept in tents overnight. Helpers included Larry McHenry, Al Paslow, Kathy Desantis, Barbara La Fon, Dave Smith, Fred Klein, Jerry (last name?), and Ann Norman.

The ages of the girls vary from kindergarten to 12th grade. They were very enthusiastic and appreciative. I kept hearing chants of "Lar-ry! Lar-ry! Lar-ry!" as the girls filed from room to room for the different presentations (planetarium show, reflector, refractor, space video, and PowerPoint talk—the Mingo five-ring circus). The girls got to view Saturn and later Jupiter while a shadow transit of Ganymede was underway!

Fred Klein said he had the pleasure of helping with the Girl Scout visit to Mingo Thursday night. It was great fun showing off the new observatory and scope. He set up his C11 on the front porch and gave nice views of Jupiter and the shadow transit of Ganymede (yes James) well before dark and then showed the usual suspects. He had great fun later when one young girl came back (again). They first looked at M13, M12, and M10 to contrast how similar things can look differently. She was very interested and the only one with him just then (and her mother). They sat down with a star chart and just started to view all the objects in the area brighter than about 11.5 magnitude, including some very small planetary nebula. They all enjoyed it.

A NEW BENEFIT FOR MEMBERS AND OUR FAMILIES!!! *By Wade Barbin*

The AAAP has joined The USX Federal Credit Union.

Q. What is a Credit Union?

A. A credit union is a not-for-profit organization providing financial services for its membership at either reduced rates that are offered by banks and savings & loans or return the profits back to the membership in the form of a "Member Loyalty Reward".

Q. Does it cost anything to join the credit union?

A. There are no fees to join but a minimum balance of \$25 is required to open an account.

Q. Are your funds insured?

A. Credit unions are insured by the NCUA. Both the NCUA and the FDIC are Federal agencies and follow identical practices.

Q. Who can join?

A. Every member of the club and their immediate family are eligible for membership.

Q. Because the credit union has a limited number of offices, why should you join instead of using your local bank!

A. Saving money! If you are a saver, the answer is obvious! The credit union is offering rates well above any of the local banks and possibly the "Member Loyalty Reward" rates are among the highest in the nation at this time! If you're an ATM user, you may find that the credit union is as close as the ATM machine at your local bank!

Q. Why not just check out USX-FCU for your self?

A. Type www.usxfcu.org and explore their website. You might be surprised by not only the services but also how many local companies already use the services of the credit union!

Q. How difficult was it for our group to join the credit union?

A. Any group of people with something in common can join. Church groups, employers, any social or professional group that has a charter, constitution, or federal employer number may join. The rules are very liberal.

I've been a member of USX-FCU for the last thirty years through my employer. I was unaware that the club could join until recently.

Enjoy this new benefit.



AAAP Loan Program Inventory
Box of Miscellaneous Items Inspected,
cleaned, photographed 1/13/06
Wade Barbin & Flacc Stifel

Refer to 12/07/05 Inventory Sheet for inclusion of numbered items.

- B-1 Bushnell *Sportview* 7 x 35 Binoculars OK, optics clean, collimation OK. Very cheap, not good, optics very poor. Case.
- B-2 Orion *UltraView* 8 x 42 Binoculars. Optics clean, collimation excellent, very nice. Binoculars. Large exit pupils.
- E-3 Series of Orion 1.25" Orthoscopic Eyepieces. 25mm, 12.5mm, 7mm, 6mm, 5mm, 4mm. The 4mm has un-removable dirt or bad coating.
- E-12 Meade 2X Barlow Lens. 1.25" Metal tube, large lens. Appears OK.
- E-14 Zoom Eyepiece, 1.25" 84. — 21mm. Appears to be OK.
- E- Meade MA 25mm multi-coated 1.25" eyepiece. Appears OK.
- E- 2 Cheap black plastic Barlow lenses. Small lenses, .965", one loose 1.25" adapter.

Miscellaneous .965" eyepieces:

- E-15 .965" K 20 mm Kellner (?) Appears OK.
- E-16 .965" HM 9mm, marked with "T" - May be Tasco. OK.
- E-17 .965" SR 4mm Tasco. Problem with "dirt" on eye lens, not removable.
- E- .965" 18 mm Circo. OK
- E- .965" AR 9 mm Circo. OK
- E- .965" AR 7 mm Circo. OK

Adapters & Junk Eyepieces

- O-2 1.25" to .965" Adapter, OK, Photo
- O-6 1.25" to .965" Adapter, not good quality.
- E- 1.25" HM 25mm eyepiece, very narrow field. Unknown maker, useable.

- E- 1.25" H 8mm eyepiece, unknown maker, cloudy inside lens surfaces; not worth disassembly & cleaning.
- E- 1.25" SR 4mm eyepiece, unknown maker, cloudy inside lens surfaces; not worth disassembly & cleaning.

Miscellaneous "Junk"

- 3 Heavy yellow steel and rubber vibration pads.
- 2 5-pound "bar bell" weights, for counterweights. Finished, black.
- 2 Unfinished weights, about 3.75 pounds each, bored 1.5" for counterweights.
- 1 Edmund clock drive with small synchronous motor, for 1" shaft. Working condition.
- Several black anodized aluminum adapters, unknown use and not any standard size.
- Several eyepiece containers.

AAAP Equipment Loan Program Telescope Status
Report
December, 2005 by Richard Bailey

1. **"Crutchfield" Binocular Tripod:** Condition like new. 3-legged tripod with metal chain connected to each leg. Mount consists of a low-friction connection to legs with 3 screws. Mount attaches two crutches that contain a wooden plate to hold binoculars. Binoculars are attached with a Velcro strap. Opposite end of crutches holds counterweights.
2. **T-8:** Celestron 4½ Newtonian Reflector. Labeled Wooden tripod: equatorial mount, setting circles. Trpod legs separate easily.
3. **"Dynascope": 4" Reflector. Very tight .965 focuser. Small sighting scope w/o cross hairs. Wooden tripod w/counter balance; no setting circles.**
4. **"Edmund Scientific Tube": Reflector NO TRIPOD FOUND. 1.25" Focuser; 1600 mm Focal length. 7.5" mirror: primary needs cleaning. Secondary mirror completely out of alignment. Tube has significant dent on the outside at approximately 93 cm from mirror and a minor dent at approx. 73 cm from mirror. Chip off outside of tube by primary mirror. Bent thumbscrew on sighting scope.**

SUMMERFEST NOTES

Well, after a poor, rainy Friday, the Dedication of Mingo's 24-inch telescope was canceled. The date was changed to Saturday, June 24, 2006. Wow, what a difference that made! In either case, a fantastic number of AAAP members came by to help out for Summerfest. The true apex of the event was the dedication of the 24-inch RC Telescope. With the skies promising to clear, more and more members, public, and officials attended the Saturday evening dedication. It was a tremendous feeling to witness this event! The large group crowded the room of the great telescope. Our director, Ed Moss, informed all how the MCP Observatory and the 24-inch came to be.

Images are at:

<http://al-paslow.smugmug.com/gallery/1599641/1>.

Although we dodged the rain and clouds, the actual "first light" of the instrument Saturday night was not an image of Jupiter in the south or Saturn in the west. Due to the weather the first image observed was actually a terrestrial one. A mercury vapor lamp was located at a considerable distance away on the horizon and our mighty telescope was aimed there. It gave us a nice view even to the spectators who claimed to see a few moths or insects flying around the light!! Thanks to all the members who came by to help plan and make the event a success!!

Al Paslow
MCP Associate Director

A Summerfest Retrospective

By Ann Norman

Summerfest 2006 . . . Where do I start? I'll start with the good stuff.

Mingo Creek Park Observatory is an ideal place for camping. We drove up behind the observatory to pitch a tent on a flat, green lawn far from vehicle traffic, out of sight, surrounded by trees and bushes of ripe black raspberries. The facilities were clean and decent. Despite the rain, it was a perfect camping experience. I encourage others to try camping at Mingo, whether individually or in a group. The park is also great for mushrooming! (Is that a word?). Twenty-some mushroom walkers found 50 varieties of mushrooms—without even trying too hard.

Our side trip was incredible! While her husband identified mushrooms, Charlotte and I, with my son Chris, enjoyed an "insider's tour" of Meadowcroft Rock Shelter—a hunting campsite that has been in use for at least 11,000 years.

Even with skies almost totally clouded over both nights, Summerfest put on quite a show! Beginning with the children's program, Jean Philpot of the Science Center handed the kids a hammer and let them smash up dry ice on the concrete to demonstrate the workings of a comet. You may think this would be a hard act to follow, but not for the Night Sky Network team of Chrissie Chojnicki, John Moser, Rich Bailey, and Barbara La Fon. You should have seen the delight when Barbara invited the kids to play with a spinning gyroscope.

Our speakers came through for us: Eric Fischer's gave us an information-packed lecture on satellite observing and our Keynote Speaker, Joerg Colberg, showed us animations of large-scale computer simulations of the evolution of the universe. Late breaking news: Due to dark energy, the Milky Way Galaxy will NOT fall into the center of the Virgo Cluster billions of years from now, but will be left behind with the Local Group as the rest of the cluster accelerates away from us.

It was a great First Light party, with fun, food, and old and new friends as we waited for clouds to part and give us a target—ANY target—for our brand new 24-inch reflector.

Saturday night between 100 and 150 nonmembers joined us to check out the observatory. We signed at least three new members and one renewing member. According to my son, who was parking cars, the people noticed our event from a Post Gazette article about camping at Mingo.

The weekend ended on a happy note, after (admittedly) a very unhappy start. A combination of bad weather and poor communications among Summerfest and Boy Scout officials on the Friday morning of the event—involving, among other things, a temporary loss of phone service at Mingo—led to our losing the hundreds of Boy Scouts that had been planning to come to Summerfest. Oh, well . . . If adversity promotes bonding, the Summerfest volunteers—especially me, Kathy, and Ed—will be friends for life. ☺

This retrospective was written on a short deadline. Expect more, including pictures and the complete list of volunteers in your August Guide Star. The AAAP volunteers from Friday night were:

George Gusik	Bill Moutz
Gene Kulakowski	Charlotte Tunney
Ann Norman & Chris	James Tunney
Kathy DeSantis	Al Paslow
Chrissie Chojnicki	Ed Moss
Richard Frye	Linda Bailey
Judy Schomer	Rich Bailey
Mark Schomer	Shirley Caseman

OBSERVATIONS

Mars, Saturn, and the Behive Custer

By Tom Reiland (posted June 16)

Another WOW! By 10:20 p.m. I was able to observe Mars in between M44 and us. What a sight! I went to my garage and carried my 5" f/5 Jaegers refractor with a 20 mm Meade Erfle eyepiece, which gives me 31X and slightly over two degrees field of view to the back yard. Large aperture is great for light gathering, but there's nothing like a small, short focal length scope for spectacular wide field views. There was the red disk of Mars sitting inside of the Praesepe, with Saturn, its rings and Titan a little over a degree to the right (southeast). I do not remember seeing two bright planets and a large star cluster in the same field of view before tonight. After my observation, I realized that this would be the first and last time I would see Mars, M44, and Saturn this close together. Saturn will not be near M44 again for at least 29 years. I doubt that Mars will be in that region at that time. This is the second once-in-a-lifetime astronomical event involving Mars in three years. Both are probably once in many a lifetime events.

Fireball

(Posted June 6)

Tom Reiland: At 4:16 a.m. almost to the second, I observed a -4 mag fireball in the East cutting through the square of Pegasus and flaring out in northern Pisces. It was heading SE and was not radiating out of Hercules. It was white to green-to-white. It was an added bonus to a nice night of observing.

Phil Breidenbach: I saw that fireball also! By my watch it was 4:16:15. I had just put my lunch in the car and turned and looked at Cassiopeia and it shot by under the constellation. I figured it went about 20–30 degrees and got brighter as it progressed. It was greenish-blue, with a coppery color on its edges. It was behind some trees when it disappeared. A very good way to start my day!

Midnight Sun

by John Cheng (posted June 4)

As Saturday evening ended and the air grew heavy with moisture, the Sun, the great Shadow-caster, made what looked to be a mediocre night a memorable one.

About a quarter of an hour before midnight, with the Great Red Spot rushing toward disappearance around Jupiter's western limb, the crisp black dot of Europa's shadow appeared and began to chase the transiting satellite invisible against the bright Jovian disk. Simultaneously, about fifty degrees to the west, one of the best lunar spectacles I know was taking place—sunrise over Ptolemaeus. First, the circular western wall announces itself when the heights catch the earliest light. Then, slowly, dawn creeps across the convex floor of the plain but as it does, huge dark fingers emerge, sixty mile long shadows cast by the

peaks of the eastern wall . . . a horrendous hand gripping the crater refusing to give it up.

Glen & Sheri Rockhill Observation Reports 1 16Jun 06 & 17Jun 06; Anthrocon Star Parties

Observation Report 16Jun 06 22:00 - 00:00; North Terrace, DLCC, Pittsburgh, PA

Transparency: Above Average; Seeing: Average; Visual Magnitude: 3.05; Moonrise: 00:34

Astrono_Furs Anthrocon Star Party, Night 1. Yes, Sheri and I are active in the Furry Fandom. After the Pirates had their fireworks display at about 21:30, thankfully, the stadium cut back their lighting and the smoke drifted down stream and away from our position at the convention center. Sheri and I had our 80mm f/6 refractor set up and we kept it aimed at Jupiter for the entire two hours up on the roof. The 9mm EP gave us 54x magnification and offered a wide field view on Jupiter and the four Galilean moons. At that magnification we were also able to clearly discern the north and south equatorial banding on the planet. We also had our 15x70 binoculars tripod mounted with an "L" bracket in which we showcased the beautiful orange and blue of Albireo and beta Cygni. Our objective was to show our friends in the fandom that astronomy can be pursued even under light polluted city skies and what they can see with moderately priced equipment. Friday night Sheri and I counted about 40 guests who sought us out under the stars. I had handouts printed up with a map showing the night sky for the evening, a listing of sights that you can see, the current timetable for the ISS and Iridium flares, and a list of links where they could find out more information or list of clubs in their area. The convention members were wowed and genuinely impressed and interested. We gave a brief tour of the night sky constellations and asterisms, which led to many questions, which Sheri and I fielded as well as we could. There was also quite a bit of interest in our big binoculars and "cute little telescope."

Astrono-Furs Anthrocon Star Party, Night 2.

Observation Report; 17Jun 06 22:00 - 00:00; North Terrace, DLCC, Pittsburgh, PA

Transparency: Poor; Seeing: Average; Visual Magnitude: 2.08; Moon rise: 00:30

It's astronomy in Pittsburgh. I know well enough to schedule two observing sessions just in case one night gets clouded out. This weekend we lucked out with two good nights. While the sky was quite hazy after all the humidity and the transparency wasn't all that great. We could still get some observing in by pulling in some double stars and sit on Jupiter. Saturday night we were able to secure another scope when our friend Karl from Butler brought his 100mm ED refractor up to the North Terrace. He loves planetary observing and was quite

happy to share views of Jupiter through his eyepiece. We were all very excited at what Jupiter had in store for us, as we were actually going to be set up to see a transit of the Great Red Spot. With the 4" scope set up on Jupiter, it gave Sheri and I the opportunity to use our 80mm to bring in some spectacular wide field views of Albireo, Mizar, Alcor, Alpha Hercules, and Eta Lyra. There weren't enough stars shining through the haze and light pollution to find M13, but before the night was through, I was able to locate Brocci's Cluster, aka the Coat Hanger, in Vulpecula. Saturday night we had about 25 convention attendees visit our observing session but of those 25, a good dozen, stayed with us during the entire session asking questions, trying out the instruments and binoculars and rediscovering astronomy. We were all treated to a very nice, bright and long ISS pass, which swept through Leo, had its maximum altitude through the bowl of the big dipper and faded out behind Cygnus. The Iridium flare, about twenty minutes later, was no less spectacular. All in all, we entertained nearly 3% of the total 2,500 attendees to this conference, which was pretty good considering we were up against dances both nights and the signs to

lead folks to where we were set up could have been better. Most of all, we did what we set out to do, share the wonders of astronomy and the heavens above with friends. I wish we had a picture or two of us up on the convention center terrace to share. It was a unique place to observe and I for one look forward to getting the chance to do it again in July 2007.

SOUTH SIDE OBSERVATIONS

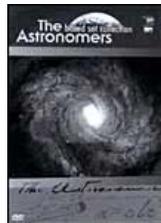
By Bill Moutz

Fred, Dave, Mary and I had a great time showing the moon and Jupiter to the folks at 19th & Carson on June 9th. We started about 8:30 and broke up at a little before 11:00. Fred Dave & I were lucky to find parking right on the corner. Mary was not so lucky. Many passers-by were enthusiastic about coming to our observatories for our star parties. One couple in particular lives 10 min. from Mingo. They were thrilled to hear about our observatory in their backyard. Personally I prefer the crowd at the Cheese Factory. Hope to do that site again real soon.

DVD Recommendation

by John Cheng

\$53.98 at Barnes and Nobels
Run time: 5 Hours 42 Minutes
UPC: 30306719825
Release Date: 3/26/2002
Source: MPI HOME VIDEO
Format: DVD Box Set



A few weeks ago I had occasion to recommend the DVD set called *The Astronomers* to an acquaintance. The original show was done by Los Angeles Public TV in 1990 and is narrated by Richard Chamberlain. I mention it here because the products that are worthwhile in a niche market like amateur astronomy seem to survive by word of mouth. So it pays to talk about them from time to time.

I'll go out on a limb here and call *The Astronomers* the best show ever put together on modern astronomy and the people who do it. To treat the amateur side, there are extensive segments with John Dobson in different settings—star parties in parks and on city streets; an interview in his apartment; and a bit of his ATM class (where he delivers a scathing remark about imaging). On the professional side, we meet some famous names—Vera Rubin, Kip Thorne, the late Jesse Greenstein (whose anecdotes about the halcyon days

of American astronomy are priceless), Margaret Geller, Stephen Hawking and a few others.

As expected, in a show treating modern astronomy, the subject matter ranges from optical astronomy to radio interferometry to particle physics to "scribble on the back-of-the-envelope" cosmology.

Most of the six shows consist of interviews with working astronomers and an explanation of their projects while visiting their departments, institutions, or, best of all, the observatories (Mauna Kea, Cerro Tololo, USNO, etc) they frequent. Memorable segments—sitting in on two observing runs by Bell Labs's Tony Tyson as he looks for gravitational evidence for dark matter and taking a jeep up to the Kecks in Hawaii with a staff astronomer singing about the various instruments to the tune of Gilbert and Sullivan.

Some of the segments stick with projects long enough that you feel badly when they achieve only qualified success or, as with one, ends in failure at a conference.

This series is not *Cosmos* or even *Origins*. While its science is always adequately explained, its appeal would be to an audience with more than just a passing interest in astronomy.

Our Sympathies

Phil M. Breidenbach's mother passed away around 11:00 p.m. on June 7, 2006 after a hospital stay of a few days caused by a stroke, she was taken to a hospice where she was made comfortable and it was there that she passed on. She lived a great life! I'm sure you will join me in sending our dear friend Phil our heartfelt sympathies. I feel lucky to have met his mom, and I am very fortunate to have her son as a dear friend. All the best Phil.

Pete Zapadka



ATTENTION, ATTENTION

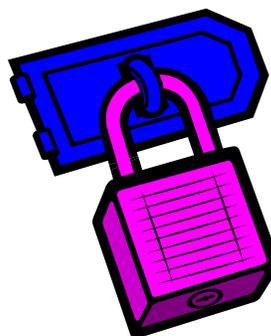
Anyone interested in being on the Executive Committee, please contact Ed Moss at president@3ap.org or edward.moss@verizon.net

Instructions for the gate lock and building Wagman Observatory By Tom Reiland, Director

1. The gate lock.
 - a. After you unlock the gate, reset the lock to 0000.
 - b. If you are not expecting anyone else to show up, you can close and lock the gate. If not, you must attach and lock the gate lock onto one of the gate arms and either leave the gate open or close it.
 - c. If there are three or more members, the gate should be left open until midnight. You can close it and/or lock it by midnight.
 - d. When you leave, you must close and lock the gate. The lock must be set at 0000.
2. The building and telescopes.
 - a. If you are going to use either telescope in the building, you must call Tom Reiland before you go to the observatory. If you can't reach him, leave a message on his voice mail or send him an email. You can also Call Flac Stifel or Wade Barbin.
 - b. Upon arrival, follow the gate lock procedures listed above.
 - c. Unlock the door and turn off the alarm.

- d. Sign the opening sheet in the members' warmup room.
- e. Sign the sheet in the scope room that you plan to use.
- f. Follow the opening instructions that you received during your training.
- g. If you are the only member on the hill, you do not have to allow any visitors who walk onto the grounds in the building. This is for your safety and the safety of the facility. This is a judgment call. It's up to you.
- h. If there are other members and guests, you should share with them and show them the objects you are observing.
- i. When you are done, follow the instructions and sign out on the log sheet for that room.
- j. Sign out on the building log sheet.
- k. Close and lock all doors. Check the instructions again and double-check all doors.
- l. TURN ON THE ALARM!
- m. Close and lock the door. This means both locks. The doorknob and dead bolt locks.
- n. If you are the last one leaving, follow the procedures for closing the gate and locking. Gate lock must always be reset to 0000.

Follow these rules and help keep the building and the equipment safe and in good condition. Members who continue to make mistakes will lose their building privileges and must forfeit their keys. We have had to do this in recent years. I really do not want to do it again. Please be careful and when in doubt, go through all of the steps a second or third time. Contact Tom Reiland, Flac Stifel or Wade Barbin if you have any questions or need assistance. Thanks for your cooperation.



Classifieds

Free To A Good Home

Celestron C5 tube, primary mirror, secondary mirror, cell, and a Celestron hard case. The visual back and the instruction manual are there also, along with the tube end covers. The Schmidt Corrector plate is missing, but I have been told that you can buy them through one of the major telescope dealers, though I couldn't tell you where. I'd be happy to answer any questions you may have.

Contact Phil Breidenbach, (412) 486-1450

SCHEDULED AWAY STAR PARTIES

The Keystone star parties are on July 1 and July 29. AAAP volunteers should set up by 8 PM.

Raystown July 22

Mammoth Park August 19

Moraine State Park September 2

Everyone and their scopes are welcome!

Σ Amateur Astronomers Association of Pittsburgh, Inc. Σ

Founded June 9, 1929 by Chester B. Roe and Leo J. Scanlon

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AAAP Member Dues*:

AAAP Dues:	\$18.00
Junior Member (under 18):	\$13.00
<u>Sky & Telescope</u> Magazine:	Add \$33.00
<u>Astronomy</u> Magazine:	Add \$34.00
<u>Night Sky</u> Magazine:	Add \$18.00

***Basic Procedure for Paying Dues:**

1. Make check payable to "AAAP Inc."
2. Send check to Harry Noss, Treasurer,
1542 Daffodil Lane, Pittsburgh, PA 15237-1620



For a copy of the July calendar go to www.3ap.org/calendar



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