



Mingo Creek Park Observatory

The Guide Star

Newsletter of the Amateur Astronomers Association of Pittsburgh, Inc.

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

Website: 3ap.org



Nicholas E. Wagman Observatory

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INSIDE THIS ISSUE...

Beginner's Guide to Field of View and Magnification	1, 2
Amateur Radio Field Day & Star Party	2, 3
Rules & Regulations for Mingo	4, 5
Annual Club Picnic	5
The Littlest Astronomer	5
Wagman Training	6
For Sale	6
Welcome New Members	6
Dave Smith's Member Survey	7, 8, 9, 10

DAN'S BEGINNER'S GUIDE TO FIELD OF VIEW AND MAGNIFICATION By Dan Fundo

Well, Al Nagler has done it again! The latest update to the Televue website has a new 100 degree field of view eyepiece, the Ethos, coming to a dealer near you. Start saving your dollars. The old timers in the group will remember when an Erfle had the biggest field of view available, usually at 65 degrees. The new eyepiece will show more than 2 and a third times more sky area than the older Erfle. That's like ordering a 12-inch pizza and getting an 18-inch....a lot more to take in.

Newcomers have a hard time understanding what a 100-degree field of view is, and how it relates to what they are seeing. The 100 degrees is the apparent field of view, and it never changes. It's like looking out a window. As long as you are the same distance from the window, the view doesn't change. What you actually see in the sky is the true field of view, and it changes with the magnification.

So how big is a 100-degree apparent field of view? Well, it's more than the distance from the horizon to the zenith; that's 90 degrees. If Catherine Delaney were alive, she would probably tell you it's approximately the distance from Sirius to Spica....that's a lot of sky! Let's be a bit more practical about it. Get some paper towel tubes, or if you don't use paper towels, get toilet paper tubes. Believe it not, there is an industry standard for these tubes, 1-5/8 inch. If you look through the tube, you have an apparent field of view. Now if you adjust the length, you can see what different fields look like. I could give you the math, but I'll give you the numbers to save time. I've given the lengths in millimeters and rounded the lengths to reduce confusion. (To the purists, yeah, I'm mixing units... so what!)

Field of View Degrees	Tube length in mm
5	472
6	393
10	235
20	117 Typical 4-1/2 inch TP
30	77
40	57
50	44
60	36
70	30
80	25
90	21
100	17

Now if you put the different length tubes to your eye, you will see the difference in the apparent field of view for different eyepieces, or a close approximation. These tubes have the advantage of fitting right around the eye socket, placing the end even with the cornea, so the field should be pretty close. In any case, it works on a conceptual basis!

So what does magnification have to do with the true field of view? Magnification, in the astronomical sense is a reciprocal function. In other words, 400x doesn't really make an object look 400 times bigger. If it did, an object 1 degree in di-

ameter would look 400 degrees in diameter, and that's impossible. 400x means an object appears as if it were only 1/400 as far away. Now, take two of your FoV tubes and look at some object a fixed distance away, let's say 100 feet. What you are seeing is at 1x. If you close that distance to 50 feet, you have 2x, 33 feet 4 in - 3x, etc. Can you see what a difference the apparent FoV makes? Here is a chart based on 100 feet

Magnification	Distance
10x	10 ft
20x	5 ft
30x	3 ft 4 in
40x	2 ft 6 in
50x	2 ft
60x	1 ft 8 in
70x	1 ft 5 in
80x	1 ft 3 in
90x	1 ft 1 3/8 in
100x	1 ft
125x	9 5/8 in
150x	8 in
175x	6 7/8 in
200x	6 in

If you really want to get the visual impression of all this, the Moon is 30 minutes or 1/2 a degree in diameter, and M-31 is usually shown as 3 degrees in the long axis. At 100 feet, they would appear as a 10 1/2-inch circle and a 63-inch by 18-inch ellipse. Cut out a circle and an oval with the above dimensions and hang them on a wall. At 100 feet, they should appear as they do in the sky. Now you can change your FoV (tubes) and magnification (distance) to see the effect.

There's a lot more to understanding eyepieces. There are several good books and there are all the veteran observers in the group to help. Televue also has a nice eyepiece calculator on their website at <http://www.televue.com/engine/page.asp?ID=107> (add standard disclaimer....I have no financial interest in Televue....I can't even afford their eyepieces!)



The Amateur Astronomers Association
of Pittsburgh
and
The Wireless Association of South Hills
Amateur Radio Club

- Invite you to a free special event -

The 2007 Amateur Radio Field Day
and Star Party!

By Larry McHenry

Come see regions of space containing star clusters and nebulae, visit the craters of the moon, and marvel at the solar system's two largest planets. Then listen to various amateur radio stations around the country, and learn about the exciting world of amateur radio communications!

It's all part of the show during the **2007 Amateur Radio Field Day and Star Party** sponsored by the Amateur Astronomers Association of Pittsburgh, and the Wireless Association of South Hills. The event takes place at the Mingo Creek Park Observatory starting at 2:00 PM EDT on Saturday, June 23, located in Mingo Creek County Park, Nottingham Township, Washington County, PA..

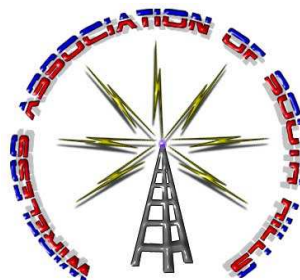
This is an opportunity for amateur astronomers, radio enthusiasts, students and the general public to observe the wonders of the sky. Visitors will have an opportunity to observe the 1st Quarter Moon, and the bright planets, Saturn and Jupiter.

Learn how to use a telescope, accessories, and star charts, and take in a planetarium show in the observatory's classroom or watch and listen as amateur 'Hams' make radio contacts to the far corners of our nation, including using amateur communication satellites, and try your own hand at working the radio dials at our 'Get On The Air' Station.

Event runs 24 hours, 2:00 PM Saturday June 23rd through 2:00 PM Sunday June 24th.

Go to <http://www.n3sh.org> for more information about the **Wireless Association of South Hills**.

See schedule on page 3.



Schedule for AAAP / WASH Field Day Star Party – 2007

<i>When</i>	<i>What</i>	<i>Where</i>
	SATURDAY, JUNE 23, 2007	
2:00 PM	Observatory Opens	MCPO
2:00 PM	Amateur Radio Field Day Commences For next 24 Hours	Shelter 9 and MCPO courtyard
2:00 PM – 2:09PM	International Space Station	MCPO courtyard
3:02PM – 3:12PM	Amateur Satellite SO-50	MCPO courtyard
3:36PM – 3:44PM	International Space Station	MCPO courtyard
2:30 PM – 4:30 PM	Solar Observing: white light / h-alpha (if clear)	Observatory Telescopes
3:00 PM – 3:30 PM	"Observing the Sun" presentation	Observatory Classroom
3:00 PM – 4:00 PM	"Get On The Air!" Amateur Radio – open to everyone	MCPO courtyard
5:12PM – 5:19PM	International Space Station	MCPO courtyard
6:21PM – 6:38PM	Amateur Satellite AO-7	MCPO courtyard
5:30 PM – 6:30 PM	DINNER BREAK	MCPO courtyard
7:00 PM – 7:30 PM	"Introduction to the Moon" presentation	Observatory Classroom
7:00 PM – 8:00 PM	"Get On The Air!" Amateur Radio – open to everyone	MCPO courtyard
7:09PM – 7:19PM	Amateur Satellite AO-51	MCPO courtyard
7:30 PM – 8:00 PM	"Night Sky Network" presentation	Reflector Anteroom
8:00 PM – 8:30 PM	"Skies over Mingo" - Planetarium Show-1	Observatory Planetarium
8:00 PM – 10:00 PM	Lunar / Planetary Observing: the Moon, Jupiter, & Saturn (if clear)	Observatory Telescopes
8:10PM – 8:31PM	Amateur Satellite AO-7	MCPO courtyard
8:45PM – 8:59PM	Amateur Satellite AO-51	MCPO courtyard
9:00 PM – 9:30 PM	"Star Gazing" presentation	Observatory Classroom
~ 9:30 PM	"Green Laser Sky Tour" (if clear -immediately following Star Gazing)	Observatory Lobby
9:00 PM – 10:00 PM	"Get On The Air!" Amateur Radio – open to everyone	MCPO courtyard
9:30 PM – 10:00 PM	"Night Sky Network" presentation	Reflector Anteroom
9:45PM – 9:55PM	Amateur Satellite VO-52	MCPO courtyard
10:00 PM – 10:30 PM	"Skies over Mingo" - Planetarium Show-2	Observatory Planetarium
10:00 PM – 1:00 AM	Deep Sky Observing: Star Clusters & Nebulae (if clear)	Observatory Telescopes
10:04PM – 10:24PM	Amateur Satellite AO-7	MCPO courtyard
11:20PM – 11:32PM	Amateur Satellite VO-52	MCPO courtyard
	SUNDAY, JUNE 24, 2007	
1:00 AM Sunday	Observatory Closes	MCPO
	Amateur Radio Field Day Continues Overnight	Shelter 9 and MCPO courtyard
~ 2:00 PM Sunday	Amateur Radio Field Day Closes	

Rules and Regulations for the Mingo Creek Park Observatory

Here are rules and regulations set forth by the Amateur Astronomers Association of Pittsburgh for the proper use of the Mingo Creek Park Observatory (MCPO) and surrounding grounds.

Revised 5/10/2007

USE OF THE HILLTOP SITE

The observatory grounds are available to use by any AAAP member. The gate combination can be given upon request to members in good standing only by the Directors or other AAAP Officer. The gate combination will be changed when deemed necessary.

The observatory site is for use by AAAP members and guests. If members are present and the gate is open, the public is welcome to enter the grounds. Therefore, if there are a few members present and/or privacy is desired, please close the gate after you enter.

AAAP members are not expected to exercise police duties. If public visitors misbehave or are intoxicated, you may make a reasonable request for them to leave, but do not do so if you feel this would be unsafe. Call the police (911) or, if necessary, leave and get help.

Smoking is prohibited in or near the building. Also, please refrain from smoking near telescopes on the grounds. The smoke is harmful to telescope optics, and reduces your visual sensitivity. If you smoke, do not throw your butts on the ground. No littering. Keep the site clean.

Consuming alcoholic beverages on Mingo Creek Park Observatory property is prohibited. This includes all of the observatory grounds.

OBSERVATORY KEY HOLDERS

The use of the observatory is a privilege, not a right. The door key will be given to qualified members in good standing who have been in the AAAP for a year or more, who have properly trained at a training session, and who have paid the annual key fee. Prior to their formal training session, prospective key-holding members are required to volunteer at a minimum of three MCPO public star parties to become familiar with the building, assisting the MCPO Staff within the Observatory Complex.

Initially, key holders may use the Refractor Telescope. The Reflector Telescope will be available for use after additional suitable training (the Planetarium is to be used only by qualified MCPO Staff). Detailed instructions for the use of the observatory can be found in the Mingo Creek Park Observatory Handbook.

All key holders must sign in and out on the log sheet provided for those opening and closing the building and/or using the telescopes. Separate sheets are provided for star party volunteers.

No food should be left on the tables or out in the open because of rodent problems.

Nothing belonging to the Amateur Astronomers Association of Pittsburgh is permitted to be removed from the observatory site without permission from the Directors. Nothing is to be posted in or on the observatory without permission from the Directors.

All opening and closing instructions should be followed closely, and everything must be returned to its proper place when a key holder is preparing to leave and close the observatory.

Any damage to the building or loss of items is the responsibility of the individual using the observatory at the time of the incident. If you break something, please report it to the Directors.

If you have questions or problems about proper procedures, please contact the Directors.

Star party bookings will be handled and cleared by the Directors.

Any improper activity by a key holder (or any member) at Mingo Creek Park Observatory may, after a review and a vote by the Observatory Committee, result in that person forfeiting their observatory key and losing all observatory privileges. Furthermore, that member's name may be submitted to the Executive Committee which will decide if the offense is severe enough to warrant expulsion of that member from the Association.

ARRIVING

Note – The lower gate should always be left in same condition as found: (open or closed).

Unlock the gate. **The lock combination is restricted to AAAP members only!** Set the correct numbers on the lock combination wheels, squeeze the lock as if to close it, and pull it open. (A small flashlight kept in your car will make this task easier after dark).

Remove the lock from the gate. Immediately set the combination back to all zeroes.

Open the gate and drive forward.

If a public star party night, the gate may be left open.

Replace and lock the lock on the stationary side of the gate.

On non-public nights, please close and lock both gates behind you. (**see above note**).

If you are expecting other members or guests, for security reasons please close and **“false-lock”** the gate. (This involves closing the gate, sliding the inner pipe sleeve into the stationary post without aligning the pin holes, and inserting the pin through the stationary post pin holes and attaching the locks back onto the pin).

“False locking” gives the illusion to non-members that the gate is locked, but members or guests can easily open the gate by simply sliding the inner pipe sleeve open.

LEAVING

Note – The lower gate should always be left in same condition as found: (open or closed).

If you are the last to leave, check the hilltop and pavilion park-

ing area to be sure there are no vehicles inside the gate and that the observatory doors are closed and locked. **If there are campers present, leave the gates open!**

Drive outside the gate. Unlock and remove the lock, set all lock combination wheels to "0".

Close gate and attach lock to gate, making sure it is locked. If the lock is lost, inform the Directors. If you are an observatory key holder, remove the spare lock from the filing cabinet drawer handle in the member warm-up room and use it on the gate.

If that lock is unavailable, follow the "false lock" procedure above.

Please note the observatory key holders section pertaining to volunteering at MCPO star parties.

The first observatory training session is tentatively planned for sometime in late July - early August. This gives any interested prospective key holders an opportunity to meet the volunteer requirements by attending one of Mingo's upcoming scheduled public star parties on 5/13, 6/8 & 6/9, 7/6 & 7/7, or the special amateur radio field-day event star party scheduled 6/23.

The exact date of the training session will be posted in the Guide Star and via the listserver later this spring. We hope to see AAAP members interested in becoming MCPO key holders at the star parties, and look forward to opening the building to the general key holder use.

ANNUAL AAAP CLUB PICNIC

By Tom Reiland

This is a reminder that the Annual AAAP club picnic will be at Anglers Grove on Saturday, June 9 from mid afternoon to sunset. There will be a members and guest only star party at Wagman Observatory after the picnic. There is no charge, but this is a bring your own high-calorie and trans-fat laden yummys. There are no alcoholic beverages allowed. This is also the **78th anniversary of the founding of one of three oldest astronomy organizations in the country.** It's also a mere four days before the **20th anniversary of the official opening and dedication of Wagman Observatory.** Come out and celebrate with us. We will celebrate Wagman's anniversary with the public during the star party weekend of June 22-23. Hope to see many of yinz this June at Wagman Observatory.

THE LITTLEST ASTRONOMER

By Bill & Maureen Moutz

During the Moon eclipse in March Maureen & I were



babysitting our granddaughter, Jordan Elizabeth, at the time she was 21 months old. It was a cold night with much cloud cover. Every five minutes I was going outside to see if I could catch a glimpse of the eclipse. Jordan asked Maureen each time I went outside, "Where Pap Pap go". Maureen replied, "He went out to

look for the Moon". While I was outside Maureen and Jordan drew Moon circles on the inside glass of the storm door. Each time I returned I said, "No Moon". The next day my daughter called to ask what had we done with Jordan? She seems to be obsessed with the Moon. She went to bed saying no Moon and awoke saying "Moon, no Moon". From that point on she insists that her mother take her outside to see the Moon before going to bed each night. She now calls Maureen and I Granny & Pap Moon.

A photographer came to Jordan's day care center shortly after the eclipse. He had two backgrounds. One was plain and one had the moon. After he had taken all 25 of the children's pictures with the plain background, Jordan insisted her picture also be taken with the moon. Above is the photograph. She was the only one to have her picture taken with the moon. She says when she grows up she wants to go to the moon!

Check out this website out in for a great lunar eclipse taken from Northern Ireland: http://www.eaas.co.uk/news/20070303_lunareclipse.html.

WAGMAN TRAINING

By Flacc Stifel

Observatory training is planned at Wagman Observatory during June. You must have been a member in good standing for at least a year to be eligible for training to receive a key. You may attend a training session just to learn more about the observatory or telescope use; receiving a key is not necessary. For details, or to be included, call or email: Flacc Stifel, fstifel@verizon.net. 412-486-8067.

FOR SALE

Odyssey 1 telescope. It has a black, wheeled base, and the tube is 58 inches long with an inner diameter of approximately 14 3/4 inches, give or take a fraction of an inch. It has been suggested to me that this means it has a thirteen-inch mirror, but I wouldn't know for sure.

There are three lenses with it. The info on the eyepieces/lenses is as follows:

1. Celestron 5 mm Ultima Series 1 1/4 inch Fully Multi-coated. #93350
2. Galoc #FL-16, F=16.3 mm.
3. A third one which has no markings. Comes in a black case.

Price \$500 or best offer. Please call Stacey Vargo if you have any questions. The number is 814-229-8971 or email oak-tower@hotmail.com.



it has stood quietly in a corner for 3 years or so.

I'm interested in selling (at a substantial discount, naturally), but these things tend to get lost in the mass-market classifieds, eBay would be a shipping nightmare...and, anyway, I'd prefer it found a home with someone who would get some genuine use and enjoyment out of it (rather than a dilettante like me, or some of my cohabitants up here on the Mountain who purchase imposing tubes and reflectors as display furniture for their picture windows).

Contact Kevin Hyde at khyde@telerama.com.

Finished 10" f/6 full thickness fine anneal Pyrex mirror, 1/10th wv. Uncoated: \$500.

Finished 10" f/8 full thickness fine anneal Pyrex mirror, 1/16th wv. Uncoated: \$500.

Finished 4.25" f/27 Kutter Schiefspiegler optical set, 1/20th wv. Coated: \$500.

3" f/5 refractor, coated Jaeger's doublet, machined aircraft aluminum OTA with internal light baffles, built-in 20th wv. Quartz diagonal, helical focuser, lens shade. Includes a set of machined aluminum collimating/mounting rings. \$385

NEW Book: "Universe" (The Definitive Visual Guide), Martin Rees 500 pages: \$20

Contact Bob Schmidt (412) 821-3370 (Saturnv127@verizon.net)

The following magazines and journals are surplus at the Indiana University of Pennsylvania Geoscience Department and are free to anyone who wants them. Dates of coverage are approximate.

Journal of the Royal Astronomical Society of Canada, 1971-1981.

Star and Sky magazine 1977-1981

Air and Space magazine 1987-1998

Meteoritics 1967-1987 and a few from 1997.

Contact Ken Coles, kcoles@iup.edu or 724-357-5626 by the end of August if you are interested - I can bring them to a meeting or star party. After that they get recycled.

An Orion AstroView™ 120mm EQ Refractor w/ Original Plossl 15mm and 25mm eyepieces Original collimator eyepiece Tri-Mag™ 3x Barlow Lens 35mm Ultrascopic™ 1.25" eyepiece.

I've had this gear outside for observation a total of 5 times (Yes, I'm THAT sort of hopeless amateur, the kind who launch into a hobby with great verve and fanfare, then set it aside). I amazed the neighborhood with some marvelous views of Saturn, Mars and the cityscape from Mt. Washington. Otherwise,

WELCOME NEW MEMBERS

Nathan Brandt
 Carl M. Chernan
 Robin Durr
 David A Gano
 Heather Gembarosky
 Todd Kelly
 Samuel L Terry
 Matthew Wrigley

AAAP Member Survey

This survey is to determine the needs or the membership, The direction of the club with meetings, starparties, use of observatory, type of observing some members do and the type of telescope they have.

• Meetings

1. Do you attend AAAP meeting? Yes _____ No _____

If you answered No to #1 could you check the reason you don't attend.

- I have other commitments that evening.
- I don't have transportation
- I don't like driving at night
- I don't feel safe on the North Side
- I live too far away.
- I don't like the format of the meetings.
- Date and time.
- Other _____

If you do attend and checked No to #1 could you check what things you like or dislike about the meetings.

- | | | |
|-----------------------------------|------------|---------------|
| 1. The program/speakers | Like _____ | Dislike _____ |
| 2. The power point presentations | Like _____ | Dislike _____ |
| 3. Observations | Like _____ | Dislike _____ |
| 4. Business Meeting | Like _____ | Dislike _____ |
| 5. A chance to meet other members | Like _____ | Dislike _____ |
| 6. The meeting location | Like _____ | Dislike _____ |

2. Is there any other things you like or dislike about AAAP meetings?

3. Is there anything that can be done to improve the meetings? _____

Starparties

4. Do you attend AAAP Public Starparties? Yes _____ No _____

If you answered yes to #4 could you check the reasons you attend.

- I like to hang out with other members.
- I like to show the heavens to a lot of people
- It gives me a chance to get help working my telescope.
- I like to help park cars
- It is a good chance to check out other types of telescopes & eyepieces.
- It gives me a chance to look through the clubs telescopes in the observatories.
- Like to help out with the planetarium
- Like to set up my telescope in the field around the observatory.
- It is a good way to learn new objects.
- My home is in the city and the AAAP observatories are in darker locations.
- Other _____

If you answered NO to #4 could you check your reasons for not attending.

- I work or have other commitments those evenings.
- I go to bed early

- I don't have transportation.
- I don't feel I have enough knowledge of the sky to show a lot of objects to the public and answer their questions.
- I don't know any of the members.
- Have a hard time finding the observatories at night.
- Can no longer drive at night.
- Just like to observe on my own.
- I have problems with some members and the way the place is run.
- Don't like the port-a-jon
- Other _____

5. Do you go to any other starparties AAAP gives in State Parks, schools or other places other than our observatories? Yes _____ No _____

6. Do you attend starparties that are just for members? Yes _____ No _____

7. If you answered NO to #6 could you explain why?

• Club Observatories

8. If you have been to any of our observatories? Which one or ones?

- Mingo Creek
- Wagman
- Neither one.

9. If you have been to both ones please check which one you like best.

- Mingo Creek
- Wagman
- Both of them the same

10. Which observatory is closer to where you live?

- Mingo Creek
- Wagman

11. Have you taken training on the operation of the telescopes at Wagman?
Yes _____ No _____

12. Of out four telescopes in the two observatories which do you like the best?

- 11" Brashear Refractor
- 21" Manka Reflector
- 10" Reflector at Mingo
- 24" R/C at Mingo

13. Would you like more time on the telescopes to do more.

- Visual observing
- Imaging
- spectroscope
- Other _____

14. Have you attended a show in the Planetarium at Mingo? Yes _____ No _____

15. Have you attended any of the presentations inside at Mingo? Yes _____ No _____

16. What do you like about Wagman observatory?

17. What do you dislike about Wagman observatory?

18. What do you like about Mingo Observatory?

19. What do you dislike about Mingo Observatory?

20. What could be done to improve each observatory and the programs?

21. Do you know much about AAAP's involvement in the Night sky Network? Yes _____

No _____

22. Are you interested in getting involved in giving "NSN" presentations? Yes _____

NO _____

• Telescopes

23. Do you own one or more telescopes? Yes _____ No _____

24. What types do you own?

- Newtonian reflector
- Refractor
- Schmidt-Cassegrain
- Binoculars
- Other _____

25. How many telescopes do you own? _____

26. Where do you use it.

- At home in my back yard.
- At our observatories
- At the AAAP observatories
- Out Green County observing site.
- In my home observatory
- In a local park
- Other _____

27. Did you know AAAP has a telescope loan program? Yes _____ No _____

28. Did you know that AAAP has an observing site in Green County Yes _____

No _____

• Observing

29. What type of objects do you like to observe?

- Solar
- Planets
- Moon
- Deep sky
- Variable stars
- Double stars
- Other _____

30. Do you keep a log? Yes _____ No _____

31. Do you report any of your observations to anybody like variable stars to the AAVSO
Yes_____No_____

32. How do you point your telescope at the object you want to view?

- Use an atlas and star hop
- Use a "go-to" computer driven mounting
- I just observe the Moon and bright planets that I can point to.
- I observe in a dark location where I can see some of the deep sky objects I want to observe.

33. Are you working on any observing certificates? If so which ones?

- Scanlon
- Messier
- Mullaney McCall
- Herschel
- Other_____

34. If you observe at Mingo or Wagman on non starparty nights do you prefer to observe by yourself or do you like to have a few other members there? With others_____ By Myself_____

35. Has there been a time you wanted to go to one of the observatories or the Green County site but didn't go because you didn't think anyone else would be there that night. Yes_____ No_____

• Internet

36. Are you on the club list server? Yes_____No_____

37. If your are not on the list or have dropped off it could you give your reason?

38. If not could you give a reason?_____

39. Could you tell us what you like best about AAAP?_____

40. Could you tell us what you don't like about AAAP?_____

41. Any other comments?_____

Please return to: AAAP

C/O: David L. Smith
2100 Mary Street, Space 404
Pittsburgh, PA 15203-2160

Or bring it to a n AAAP meeting. Thanks for your time and input.

Amateur Astronomers Association of Pittsburgh, Inc.

Founded June 9, 1929 by

Chester B. Roe and Leo J. Scanlon

2007-2008 Executive Officers:

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 membershipsecretary@3ap.org

Guide Star Editors: **Bill & Maureen Moutz**
 gseditor@3ap.org

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

***Basic Procedure for Paying Dues:**

1. Make check payable to "AAAP Inc."
2. Send check to Michael Meteney, Treasurer,
 1070 Sugar Run Road; Venetia, PA 15367-1514

Venus shines brilliantly at magnitude -4.4 in the western evening twilight all month. It is at greatest elongation from the Sun on June 9, when it appears at half phase through a telescope. The young crescent moon lies below right of it on June 17 and above left the following night. Venus ends the month just below fainter Saturn.

Father's Day—June 17

NON-PROFIT ORG.
 U.S. POSTAGE
PAID
 PITTSBURGH, PA
 PERMIT NO. 394

RETURN ADDRESS:
 AMATEUR ASTRONOMERS ASSOCIATION
 OF PITTSBURGH, INC.
 1070 Sugar Run Road
 Venetia, PA 15367-1514