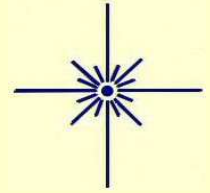




The Guide Star

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



December 2011

Volume 45, No.12

December 9th : AAAP Annual Holiday Party

This year's Holiday Party will officially begin at 7:30 pm on Friday December, 9th.

The venue is the Shaler Villa Volunteer Fire Department Hall off of Route 8 on Saxonburg Boulevard less than a quarter mile from the Eat N' Park Restaurant and within six miles of downtown Pittsburgh.

This year's event will primarily be a social gathering encouraging club members to come out, meet fellow club members, talk astronomy and have a great meal.

The event will also include a lottery, free to all attendees, whose prizes are probably the best ever distributed at an AAAP holiday party.

Holiday Party Prize List:

Rigel Systems Skylite variable brightness LED astronomer's flashlight
Telrad finder (with batteries and base)
Rigel Systems QuikFinder bulls eye finder (with battery and base)
Three \$50.00 Gift Certificates from Astronomics
20 eyepiece bolt cases in various sizes
1 year subscription to Astronomy Magazine
1 year subscription to Sky and Telescope
Minding the Heavens: Our Discovery of the Milky Way by Leila Belkora
Advances in Meteoroid and Meteor Science Springer Publishing
Night Sky Tracker, a logbook and astronomy fact book with sky maps
David Levy's Guide to Variable Stars
Night Sky Observers Guide by Bob Kepple and Glen Sanner
William Optics 2" diagonal
William Optics 1.25 diagonal
William Optics Swan Eyepiece

The Dinner Menu (catered by Adele Paslow) will include:

Salisbury Steak	Stuffing	Spinach Salad
Chicken	Corn	Pasta
Mashed Potatoes	Green beans	Dinner rolls and
Baked Potatoes	Tossed Salad	Gravy

Coffee (decaf and regular) and tea will be included. Members wishing other beverages should bring them along.

Members are also encouraged to bring desserts. There should be enough food to accommodate seconds or even thirds and members are invited to take home any remaining food.

To help defray the cost of the meal, there will be a \$7.00 charge per person. If more than the cost of the food is collected, the remainder will be donated to the club.

Important: Please reply (RSVP) by December 1st, preferably by e-mail to vicepresident@3ap.org

- 1) put "Holiday Party RSVP" in the subject line
- 2) list number of people attending

If you must reply by phone please obtain Craig Lang's phone number in the AAAP directory.

Results : The 2011 Kevin J. Brunelle Contest

November's general meeting gave attendees a chance to view both the deep and shallow sky through the eyes of some dedicated AAAP imagers. This year's contest was organized by the club's astro-imaging group. Congratulations to all who entered. Here are the winning entries:

Category:
Greater than
300mm f/l

1st Place : M42 by
Matthew Dieterich



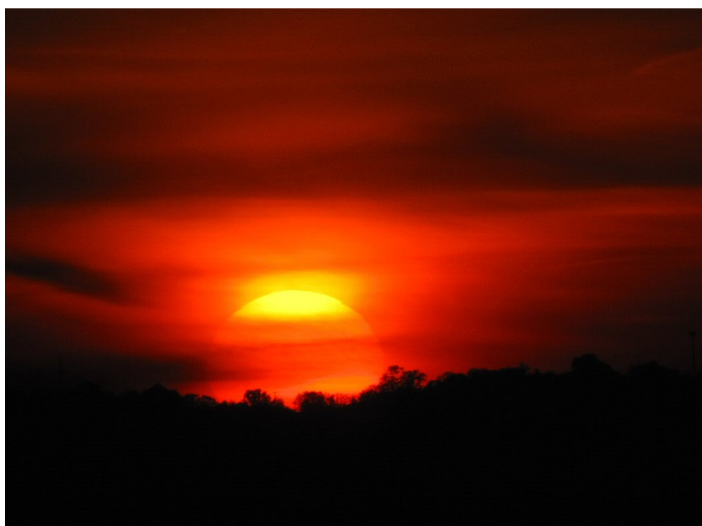
Category: Atmospheric
1st Place: Solar Pillar by Bill Hayeslip



Category: *Less than 300mm f/l*
1st Place: *Milky Way 7/28/11 by Matthew Dieterich*



Category: *Greater than 300mm f/l*
2nd Place: *Veil by Nathan Brandt*



Category: *Atmospheric*
2nd Place: *PA QSO Part by Philip Breidenbach*



Category: *Less than 300mm f/l*
2nd Place: *Lunar Eclipse by Bill Hayeslip*



Category: *Greater than 300mm f/l*
3rd Place: *Galaxy M106 by Frank Wielgus*



Category: *Atmospheric*
3rd Place: *Rain Falling out of Cloud by Fred Klein*

Astronomy as Sky Archeology: The Star of Bethlehem, the Legacy of the Magi

The Star of Bethlehem and its role in the nativity story is a piece of Christmas lore familiar to many regardless of belief. Its primary source is the second chapter of the gospel of Matthew, who is thought to have been a Greek-speaking, Jewish Christian writing around 85 AD in Syria. However, parts of the story, often accurately related, have permeated even recent popular culture:

*Those magic men the Magi
Some people call them wise
Or Oriental, even kings
Well anyway, those guys
They visited with Jesus
They sure enjoyed their stay
Then warned in a dream of King Herod's scheme
They went home by another way*

- James Taylor, *Home by Another Way*, 1987

Historically, the Star has variously been seen as miraculous occurrence, pure myth, a fiction fabricated to fulfill prophecy (sometimes called a midrash) or a natural celestial event having religious or social interpretation. It's this last type of explanation that is the focus of a well-documented, closely reasoned book by Rutgers University astronomer, Michael Molnar, *The Star of Bethlehem: The Legacy of the Magi*, published in 1999.

Molnar, who first presented his work in a 1992 Sky and Telescope article, assembles an array of pieces in an historical puzzle, giving arguments and explanations for each. Along the way – be prepared for plenty of highlighting – the reader gets good dose of early astronomy.

Most striking, but in hindsight almost obvious, is his strategy of thinking about the sky as it presented itself to a first century inhabitant of the Middle East, under Roman domination, familiar with both religious prophecy and Greek astrological symbolism. To such a person many things we overlook, would be significant.

Molnar agrees with the notion that magi (the word derives from the same root as our word magician) were in all likelihood, astrologers and following Matthew's account, their having to tell Herod and his court about the wondrous event in the sky, it's almost certain that what they referred to was not something apparent to an uninformed observer:

"...we have seen his star in the east... When Herod the king heard these things, he was troubled and all Jerusalem with him..."

Molnar argues that Star was not a conspicuous celestial display such as a nova, (these were ignored historically and mostly recorded by the Chinese) or a comet (these were universally thought to indicate evil and would hardly figure in a story about the birth of a Messiah).

Also, it must be understood that the astronomy and astrology of this time no longer depended on observation alone. Computation, imprecise but adequate, allowed planetary and lunar events to be recorded even if not observable, say, for example, an occultation in the daytime sky.

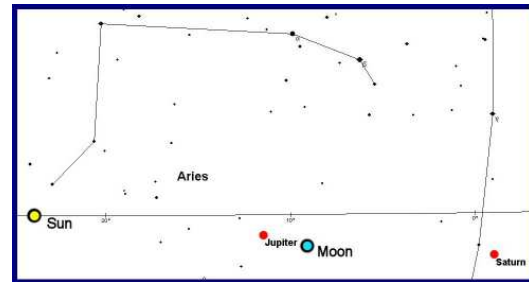
Molnar who describes himself as an "astronomer who does not believe in astrology...(but who sees)...no reason why we should hide or ignore the historical importance of astrology" is also an published expert on ancient coinage and it was the depiction of Aries and a star and crescent Moon on a Syrian coin that supplied another essential piece of the puzzle – that the constellation Aries, rather than Pisces, represented Judea in the astrology of the time.

So, to simplify, what was the Star of Bethlehem according to his research?

On the morning of April 17, 6 B.C., three bodies which were accorded a special relationship with Aries, the Sun, Jupiter and Saturn were located within the boundaries of that constellation as then defined.

Further, on that same day, a heliacal rising (as defined astrologically, this would not mean the first day on which a body could be visually discerned in the dawn sky, but located within the same constellation as the Sun but at an angular distance of 12° from it) of Jupiter was in effect. And to top it all, Jupiter was also occulted by our Moon on the same day.

To astrologers, this – and some other arcane factors – indicated a regal birth, the coming of a king in Judea. Traveling there, the magi queried Herod about the birth of a new king. Herod, conferring with his court, returned with Jeremiah's prophecy of a righteous king being born in King David's city of Bethlehem and dispatched the astrologers to find the child in that town.



Aries
06:00 local
17 April, 6 B.C.
Jerusalem

Jupiter will be
occulted by
the Moon about
noon

Molnar explains the baffling description of the position, motion and halting of the Star in the Matthew account, reflected in the words of our well-known carol "westward leading, still proceeding:

"...the star, which they saw in the east, went before them, till it came and stood over where the young child was..."

He does this by remembering that Matthew was Greek speaking and that the troubling phrase "went before" equates to our astronomical concept of retrograde motion, that is proceeding with or before the motion of the stars, while "stood over" equates with our concept of a planet becoming stationary before it reverses apparent direction. Naturally, once alerted, the Magi would continue to follow Jupiter's path.

I did find one obvious error. Molnar's statement that Aristotle taught that comets resulted from light emanating from planets is specifically rejected by that philosopher in his Meteorologica.

Molnar's 187 page book is dense, but rewarding and it's quite comforting to think that the Star of Bethlehem might at this very moment be due south, just over my shoulder. **- GS Editor**

December's Geminid Meteor Shower

This year's edition of the Geminids, usually the strongest shower of the year, will be heavily impacted by the waning gibbous Moon.

The Geminid radiant lies near the bright star Castor, and the 19 day old Moon will be located next door, in Cancer, on the night of maximum activity, predicted for December 13 /14.

Geminids are visible for about a week prior to maximum however and can generate numerous bright meteors with vividly colored fireballs near maximum. They're often yellow-orange and are easily imaged. Lasting trails are unusual however.

Asteroid 3200 Phaethon, discovered by IRAS (the Infrared Astronomical Satellite) in 1983, is thought to be the source of the Geminid meteors, making it the only non-cometary object to be associated with a major annual meteor stream. **- GS Editor**

Sun

Mon





Tue

Wed

Thu

Fri

Sat

<p>"..it is by now abundantly clear that equipment is secondary to the skill & enthusiasm of its operator when it comes to deriving enjoyment from astronomy..." - Jeff Medkeff, Amateur Astronomer</p>	<p>All times given are local. Legend: SR = Sunrise, SS = Sunset, MR = Moonrise, MS = Moonset, PI = Approximate Percentage Visible Lunar Surface Illuminated Local Midnight Details for AAAP Events can be found at: https://nightsky.jpl.nasa.gov/event-list.cfm?Club_ID=675&EventEra=Future</p>			<p>1</p> <p>SR:07:23 SS:16:54 MR:12:07 MS:23:51 PI:36%</p>	<p>2</p>  <p>SR:07:24 SS:16:54 MR:12:33 MS:***** PI:46%</p>	<p>3</p> <p>SR:07:25 SS:16:53 MR:12:58 MS:00:50 PI:56%</p>
<p>4</p> <p>Mercury Inferior Conjunction</p> <p>SR:07:26 SS:16:53 MR:13:23 MS:01:48 PI:65%</p>	<p>5</p> <p>SR:07:27 SS:16:53 MR:13:50 MS:02:46 PI:74%</p>	<p>6</p> <p>SR:07:28 SS:16:53 MR:14:20 MS:03:44 PI:82%</p>	<p>7</p> <p>IMO predicts Geminid Activity will run from the 7th until the 17th</p> <p>SR:07:29 SS:16:53 MR:14:53 MS:04:42 PI:88%</p>	<p>8</p> <p>SR:07:30 SS:16:53 MR:15:31 MS:05:40 PI:94%</p>	<p>9</p> <p>AAAP Annual Holiday Party 7:30 pm Shaler Villa Volunteer Fire Dept. Hall</p> <p>SR:07:31 SS:16:53 MR:16:16 MS:06:37 PI:98%</p>	<p>10</p>  <p>SR:07:32 SS:16:53 MR:17:06 MS:07:30 PI:100%</p>
<p>11</p> <p>SR:07:32 SS:16:53 MR:18:02 MS:08:20 PI:100%</p>	<p>12</p> <p>SR:07:33 SS:16:53 MR:19:03 MS:09:04 PI:98%</p>	<p>13</p> <p>Geminid Max begins 21:00, 13 Dec ends 17:00, 14 Dec</p> <p>SR:07:34 SS:16:54 MR:20:07 MS:09:43 PI:94%</p>	<p>14</p> <p>Tycho Brahe born 1546</p> <p>SR:07:35 SS:16:54 MR:21:13 MS:10:18 PI:89%</p>	<p>15</p> <p>SR:07:36 SS:16:54 MR:22:19 MS:10:50 PI:81%</p>	<p>16</p> <p>SR:07:36 SS:16:54 MR:23:26 MS:11:20 PI:72%</p>	<p>17</p>  <p>SR:07:37 SS:16:55 MR:***** MS:11:50 PI:62%</p>
<p>18</p> <p>SR:07:37 SS:16:55 MR:00:35 MS:12:20 PI:51%</p>	<p>19</p> <p>SR:07:38 SS:16:55 MR:01:45 MS:12:53 PI:39%</p>	<p>20</p> <p>SR:07:39 SS:16:56 MR:02:57 MS:13:31 PI:28%</p>	<p>21</p> <p>SR:07:39 SS:16:56 MR:04:10 MS:14:14 PI:18%</p>	<p>22</p> <p>Winter Solstice 00:31:09</p> <p>SR:07:40 SS:16:57 MR:05:21 MS:15:05 PI:10%</p>	<p>23</p> <p>Mercury greatest western elongation 44°</p> <p>SR:07:40 SS:16:57 MR:06:28 MS:16:04 PI:4%</p>	<p>24</p>  <p>SR:07:41 SS:16:58 MR:07:27 MS:17:09 PI:1%</p>
<p>25</p> <p>SR:07:41 SS:16:58 MR:08:18 MS:18:18 PI:0%</p>	<p>26</p> <p>SR:07:41 SS:16:59 MR:09:00 MS:19:26 PI:2%</p>	<p>27</p> <p>Johannes Kepler born 1571</p> <p>SR:07:42 SS:17:00 MR:09:35 MS:20:32 PI:6%</p>	<p>28</p> <p>SR:07:42 SS:17:00 MR:10:06 MS:21:36 PI:13%</p>	<p>29</p> <p>SR:07:42 SS:17:01 MR:10:34 MS:22:37 PI:20%</p>	<p>30</p> <p>SR:07:43 SS:17:02 MR:11:00 MS:23:37 PI:29%</p>	<p>31</p> <p>SR:07:43 SS:17:03 MR:11:26 MS:***** PI:38%</p>

Some Celestial Highlights for December

Mercury is in inferior conjunction on the 4th. It will reach greatest western elongation on the morning of 22 December, rising a 05:52 local, an hour and 47 minutes ahead of the Sun with a magnitude of -0.3

Venus is in evening twilight all month. On both the 26th and 27th, the planet at magnitude -4.0 will pair with the crescent Moon to form an attractive grouping.

Mars remains in Leo, rising at 23:48 on the 1st and at 22:41 on the 31st. Its angular diameter will be a bit under 8 seconds and its magnitude will be about 0.5.

Jupiter, located on the Aries-Pisces border, transiting the local meridian in early evening and setting well after midnight is ideally placed for observation. It continues to subtend a large angle of almost 46 arc seconds. It resumes prograde or direct motion (west to east) on December 25-26.

Saturn is in Virgo about 5 degrees to the east of Spica. It will rise at 03:42 on the 1st and 01:57 on the 31st. Its disk at the equator will subtend an arc of about 16 seconds. Its ring system will be tilted about 15 degrees to our line of sight. Its magnitude will be close to 0.7 this month

Uranus continues in Pisces available for early evening observation. It sets at 01:45 on the 1st of the month and at 23:44 on the 31st. It resumes prograde motion on the 10th when it will subtend an angle of 3.5 seconds of arc

Neptune near the Aquarius-Capricornus border subtends an angle of only 2.2 seconds of arc. It sets at 22:58 on the 1st and at 21:04 on the 31st.

Geminid Meteor Shower activity begins on the 7th and runs to the 17th with a maximum predicted for the night of the 13th /14th. Please see earlier article above.

For those using programs to predict **GRS** transits, **Jupiter's System II longitude** is 173°. **Selenographic Colongitude** is 337.1° at 0h UT on the first day of the month. Add 12.2° each day.

December Jupiter GRS and Satellite Activity

Jupiter is well placed for observation in prime time this month. Here are some highlights:

Fri 2nd	16:52 Great Red Spot Crosses Central Meridian
	17:12 Ganymede: Reappears from Occultation
	18:47 Ganymede: Disappears into Eclipse
	20:41 Ganymede: Reappears from Eclipse
Sat 3rd	00:03 Europa: Transit Begins
	01:45 Europa: Shadow Transit Begins
	02:29 Europa: Transit Ends
	02:48 Great Red Spot Crosses Central Meridian
	04:04 Jupiter Sets
Sun 4th	18:19 Europa: Disappears into Occultation
	18:30 Great Red Spot Crosses Central Meridian
	22:35 Europa: Reappears from Eclipse
	22:50 Io: Disappears into Occultation
Mon 5th	01:53 Io: Reappears from Eclipse
	03:55 Jupiter Sets
Fri 9th	17:38 Great Red Spot Crosses Central Meridian
	18:51 Ganymede: Disappears into Occultation
	20:43 Ganymede: Reappears from Occultation
	22:49 Ganymede: Disappears into Eclipse
Sat 10th	00:42 Ganymede: Reappears from Eclipse
	02:24 Europa: Transit Begins
	03:34 Jupiter Sets

Mon 12th	21:48 Io: Transit Begins
	22:50 Io: Shadow Transit Begins
	23:58 Io: Transit Ends
Tue 13th	01:00 Io: Shadow Transit Ends
	01:04 Great Red Spot Crosses Central Meridian
	03:21 Jupiter Sets
Tue 13th	17:39 Europa: Shadow Transit Begins
	18:01 Europa: Transit Ends
	19:05 Io: Disappears into Occultation
	20:05 Europa: Shadow Transit Ends
	20:55 Great Red Spot Crosses Central Meridian
	22:17 Io: Reappears from Eclipse
Wed 14th	03:17 Jupiter Sets
Tue 20th	17:04 Ganymede: Shadow Transit Begins
	17:58 Europa: Transit Begins
	18:55 Ganymede: Shadow Transit Ends
	20:15 Europa: Shadow Transit Begins
	20:26 Europa: Transit Ends
	20:54 Io: Disappears into Occultation S
	21:42 Great Red Spot Crosses Central Meridian
	22:40 Europa: Shadow Transit Ends
Wed 21st	00:12 Io: Reappears from Eclipse
	02:49 Jupiter Sets
Tue 27th	18:05 Ganymede: Transit Ends
	20:24 Europa: Transit Begins
	21:06 Ganymede: Shadow Transit Begins
	22:29 Great Red Spot Crosses Central Meridian
	22:45 Io: Disappears into Occultation
	22:51 Europa: Shadow Transit Begins
	22:53 Europa: Transit Ends
	22:57 Ganymede: Shadow Transit Ends
Wed 28th	01:16 Europa: Shadow Transit Ends
	02:07 Io: Reappears from Eclipse
	02:21 Jupiter Sets
Thu 29th	17:12 Io: Disappears into Occultation
	17:21 Europa: Reappears from Occultation
	17:25 Europa: Disappears into Eclipse
	19:51 Europa: Reappears from Eclipse
	20:36 Io: Reappears from Eclipse
Fri 30th	00:08 Great Red Spot Crosses Central Meridian
	02:14 Jupiter Sets



A Welcome to Our New Members

Scott Golden & Family
August Hall & Family
Kathleen Kleinmann

Diana Swanson
Jeremy Vallery
Rhonda Watson

Guide Star Change

Because of cost, *The Guide Star* will no longer be printed and sent via the postal service. Beginning next month the newsletter will only be available in the Files Section of the AAAPgh Yahoo Group web site and on the AAAP web site at www.3ap.org. Archives of previous issues are at both sites.

An online newsletter should have a more timely publication date and the ability to simply link to information and tools to make the hobby more enjoyable.

Feel free to make suggestions concerning the new online only format. It will be a work in progress for a while. And, as always, feel free to submit material to your club newsletter.

Membership Renewals

It is time again to renew your memberships for 2012.

Attached is a renewal form that has two parts. The first part is your personal information that we need to make sure our database is up to date and accurate. The second part is the billing information. Please fill in both parts of the form completely.

The basic membership is still \$24.00. We also have a student membership for \$16.00. This is for any K-12 and full-time college student. We also have a family membership (\$40.00) that includes anyone living in the same household. The family membership need only include the basic primary members contact information and then list the remaining family members names. All correspondence, Guide Star, and mailings will be sent to the family members through the primary member's contact information. This will reduce printing and mailing costs and redundancy.

A reminder, the AAAP no longer processes Sky and Telescope subscriptions. If you want S&T magazine for the first time, use the enclosed form to get your club subscription rate. If you are a current subscriber, use your renewal notice you receive from S&T. It should have the \$32.95 club rate on the renewal notice.

***Send new and renewal subscriptions for S&T magazine directly to SKY PUBLISHING!
Do not mail them to us.***

Subscriptions to Astronomy magazine are still handled through the club. Please send these in ASAP so there is no lapse in your subscription. The lead-time on magazines is three months.

Current building key holders need to pay their key fees at this time. To get a building key for the first time, you must first be trained by an observatory director.

If you have any questions, you can contact Michael Meteney, treasurer, or Don Hoecker, membership secretary. Thank you.

AAAP Membership Renewal Form – 2012

Please fill in this single form for anyone in your household who wishes to be a member of the AAAP. We are now offering adult, student, and family memberships. All family members must share the same residence. Student memberships have now replaced junior memberships.

To be a student member, you must be a K-12 or fulltime college student. As in the past, you may receive a discounted subscription to Astronomy Magazine through the AAAP. The subscription must be included with your membership dues payment. There is a separate form to receive a discount subscription to Sky and Telescope Magazine. This is to be sent directly to Sky Publishing. **Do not send any Sky and Telescope subscriptions to the AAAP!**

Completely fill in the following information on this form (please print):

Name _____

Address _____

City _____ State _____ 9-Digit Zip _____ - _____

Phone (Home) _____ (Work) _____

E-mail _____

How do you want your "Guide Star" Delivered? Online (____) Snail Mail (____)

Optional: Do you have a telescope(s) or other special equipment, or special areas of interest in astronomy, that you would like listed under your name in our membership directory? If so, please describe them below:.

Additional Family Members:

Name _____ Relationship _____

Name _____ Relationship _____

Name _____ Relationship _____

Name _____ Relationship _____

Name _____ Relationship _____

(over)

AAAP Membership Renewal Form – 2012

<i>Item</i>	<i>Price</i>	<i>Enclosed Payment</i>
AAAP Adult Membership (January 1 to December 31, 2012)	\$24.00	
AAAP Student Membership (covers all students K-12 and <u>fulltime</u> college students)	\$16.00	
Family Membership (covers the adult membership and all family members that live with the adult member. Please list all family members to be included on the attached form)	\$40.00	
“Astronomy” Magazine Subscription (12 issues per year) Both new and renewals are processed through the AAAP. Do not renew your subscription directly with Astronomy Magazine; you won’t get your discount.	US \$34.00 Can \$40.25 Int \$50.00	
Key Fee – Only current key holders Check appropriate observatory: Mingo ___ Wagman ___	\$15.00 each	
Tax Deductible Donation	- - - -	
<i>Total Payment</i>	- - - -	

It is very important that all payments be received by **12/15/2011** so that magazine subscriptions can be processed in a timely manner.

Prices are subject to change without notice. Payments must accompany this application.

Make checks payable to: **AAAP, Inc.**

Send this form with payments to:

Michael Meteney – Treasurer, AAAP
1070 Sugar Run Road
Venetia, PA 15367-1514

Membership questions?

E-mail: MembershipSecretary@3ap.org

Phone: 412-243-8298

Billing questions?

E-mail: Treasurer@3ap.org

Phone: 724-348-9087

Astronomy Club Subscription Form

Sky Publishing Corp. P.O. Box 171 Winterset, IA 50273

CLUB NUMBER: 270	
CLUB NAME Amateur Astronomers Association of Pittsburgh	Sky & Telescope (S&T)
TREASURER'S NAME Mike Meteney - Treasurer Date _____	(1 year/12 issues) Club Rate
MAILING ADDRESS 1070 Sugar Run Rd	United States \$32.95
CITY Venetia STATE PA ZIP CODE 15367	Canada \$39.95
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DAYTIME PHONE 724-348-9087 FAX _____	
E-MAIL ADDRESS Treasurer@3ap.org	

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MAILING ADDRESS _____

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MEMBER'S NAME _____

MAILING ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

DAYTIME PHONE () _____ FAX () _____ E-MAIL _____

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ATTENTION: 2012 Membership Forms Enclosed

Amateur Astronomers Association of Pittsburgh, Inc.

2011-2012 Executive Officers

President: Anthony Orzechowski
president@3ap.org
Vice President: Craig Lang
vicepresident@3ap.org
Treasurer: Michael Meteney
treasurer@3ap.org
Corresponding Sec: John Mozer
correspondingsecretary@3ap.org
Recording Sec: Dennis Derda
recordingsecretary@3ap.org
Membership Sec: Don Hoecker
membershipsecretary@3ap.org
Guide Star Editor: John Cheng
gseeditor@3ap.org

AAAP Member Dues: \$ 24.00

Student Membership
(K-12 & full time
college student): \$16.00

Family Membership \$ 40.00

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

Guide Star Submissions: All AAAP members are encouraged to submit items to the club newsletter. Articles, images, observations, notices, ads, book, software and equipment reviews, all are welcome. Only submissions received before the 15th of the prior month are assured inclusion in the coming issue. The Guide Star is posted online and sent to print on the 20th of the prior month. Send submissions or questions to: gseeditor@3ap.org