



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

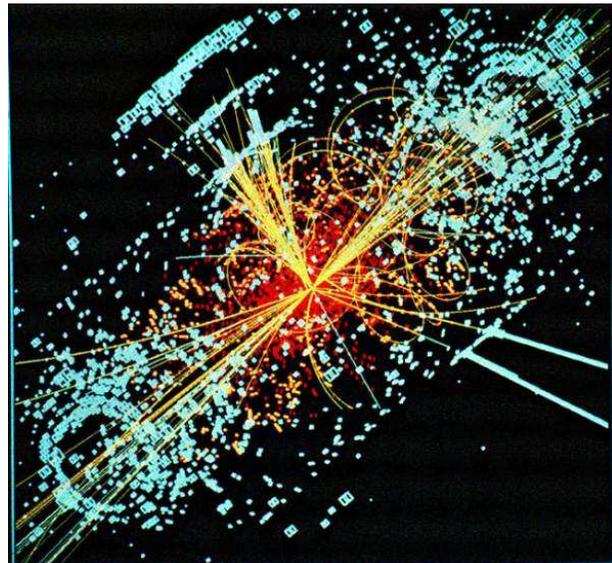
April 2009

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From the abstract: "The Large Hadron Collider (LHC) is a proton-proton colliding-beam accelerator, situated at the European accelerator center, CERN, outside Geneva, Switzerland. The energy of the LHC is a factor of 7, higher than the present highest-energy accelerator, the Tevatron at Fermilab, thus opening up an entirely new energy regime for study. The LHC will begin a year-long run starting in September, 2009. I will give a short introduction on the history of colliding-beam accelerators and the Standard Model of particle physics. I will then discuss the LHC itself, the Compact Muon Solenoid (CMS) experiment, of which I am a part, and the possible discoveries that could come from the LHC."



Picture Source: The CMS home page (at CMS Media/
[<http://cmsinfo.cern.ch/outreach/CMSmedia/CMSphotos.html> Photos]/EventD)

The picture above is a simulated event, showing the decay of a Higgs particle following a collision of two protons in the CMS experiment.

NEXT MEETING: THE LARGE HADRON COLLIDER (LHC) - EXPLORING A NEW ENERGY FRONTIER

Friday, April 10, 2009, in the Main Auditorium of the Carnegie Science Center, Professor Thomas Ferguson of Carnegie Mellon University will be discussing The Large Hadron Collider: Exploring a New Energy Frontier.

Who wants to be on the cutting edge of particle physics? Who wants to join the hunt for the elusive Higgs boson, which would complete the Standard Model of particle physics? Who hopes the LHC will find the missing dark matter?

Hope to see you there!

RUNNING FOR OFFICE

Elections are next month. Anyone wishing to run for office please contact John Holtz at 412-243-1545, Dave Smith at 412-390-0870 or Don Hoecker at 412-243-8298. Vice President and Recording Secretary are vacant for 2009-2010, however, those wishing to serve our great club may run for any office. Ballots will be printed in the May issue of the Guide Star.

NEEDLESS RISK TO MARS BIOSPHERE AND FUTURE DISCOVERIES

By Tom Dehel

As you may have heard, the Russian Federation is sending a sample-return mission to Mars' moon Phobos, scheduled to launch this October. Although the Russian sample-return mission, if successful, will provide interesting and important data, one additional experiment the probe will carry appears to introduce unnecessary risk. This risk results from a decision of the Planetary Society to send along a small titanium "hockey puck", full of microbes of various types, possibly including a sample of Russian tundra, for the round-trip ride. The intention of this experiment is as a crude demonstration of whether a meteor could transfer life between planets. Whether the titanium enclosure replicates a meteor, and whether the round-trip travel duration represents the duration of a natural exchange of rock between two planets, are two factors which call into question the usefulness of the results of this experiment, whether the microbes survive the round-trip or not. More information on this experiment, called LIFE, can be found at: <http://planetary.org/programs/projects/life/>

The risks, however, of sending this experiment into the vicinity of Mars include the possibility of having the enclosure break open as a result of catastrophic failure of the spacecraft, showering the previously protected microbes over Phobos, and potentially even Mars. This would forever cloud the origin of any future discovery of microbial life on Mars which was genetically related to life on Earth. Even more to the point, if the Phobos mission failed to return, how would we ever know if the enclosure of microbes broke open or not? Human knowledge may be clouded forever. Even if there is a small probability of the enclosure breaking open, is this crude demonstration worth the risk?

The Planetary Society maintains that they are following the appropriate COSPAR planetary protection guidelines, but the guidelines were designed to mitigate the risk of exploring a planet, and do not consider the intentional transport of protected microbes for this type of demonstration. If you are concerned over the risk to a potential Mars biosphere, or over the potential to cloud the question of the origin of Martian life, if and when it is discovered, I urge you to email the Planetary Society and suggest that they at least comply with a suggestion of the NASA Planetary Protection official, Dr. Conley. Her suggestion is for the LIFE mission to carry only pure culture life forms which could not conceivably survive on the Martian surface, should the container rupture

or the mission fail in the vicinity of Mars. The email address for the Planetary Society is: tps@planetary.org

Also, if you have any co-workers, fellow club members, or friends who might also be concerned over these risks, please ask them to make their views known to the Planetary Society.

GALILEO SCOPES NOW AVAILABLE FROM NIGHT SKY NETWORK

This just out...as reported by Dr. Connie Walker last night, the Galileo scopes website has been updated and now you can order too:

<https://www.galileoscope.org/gs/>

Marni Berendsen, Kenneth Frank and Vivian White Night Sky Network Administrators Astronomical Society of the Pacific(415) 337-1100 Night Sky Network:

<http://nightsky.jpl.nasa.gov/>

Just like you, the Astronomical Society of the Pacific (ASP) believes in improving science literacy through the enjoyment of astronomy. To keep up-to-date on activities, events, and resources provided by the ASP, sign up for free monthly notifications here:

<http://www.astrosociety.org/pubs/newsletter.html>

WELCOME NEW MEMBERS

Charles M. Steinberg
Daniel R. Salitrik
David G Innes
Carl D. Leonard
Megan A. Herd
Joseph L. Melichar

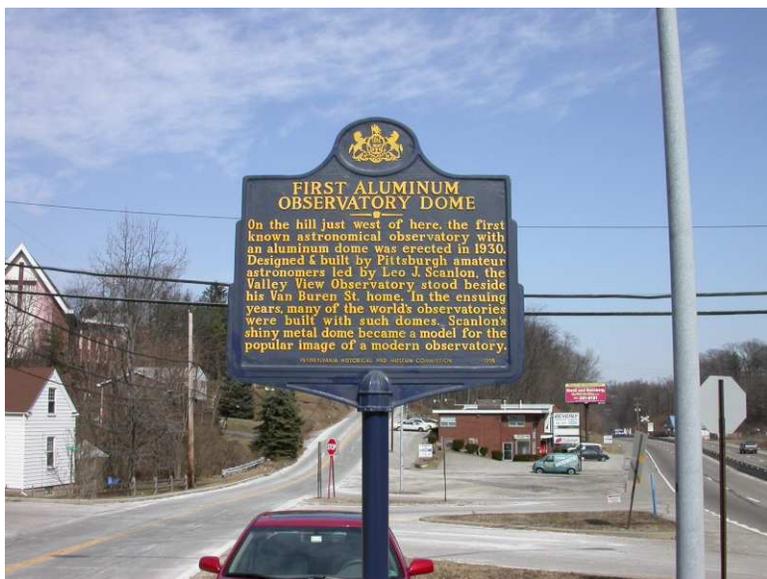
STAR PARTY AT EDGEWOOD COUNTRY CLUB

Friday, April 24, 2009
 By John Mozer

My wife, Sheila, is chairperson of the Recreation Board in Churchill Borough. She has asked me if some volunteers from the AAAP would be interested in conducting an astronomy program at Edgewood Country Club on the evening of Friday, April 24, 2009 at 7:00 p.m. The program would begin with a lecture on some topic in astronomy followed by an outdoor star party. I thought we could use parts of one or more of the NSN kits for the presentation. I will be responsible for organizing this event, so if any of you are interested, please contact me at my AOL e-mail address: jdmoyer@aol.com

LEO SCANLON'S MARKER REPLANT

By Flacc Stifel



A couple of years ago, someone hit and broke the post on Leo's historical marker beside McKnight Road. I retrieved the marker, but could not remove the setscrews holding the old post in place. It was turned over to the contractor who

handles the signs for repair and replacement.

I met the crew who plants historical markers for the state at the site of Leo's dome marker, in the traffic island between Roseland Avenue and McKnight Road (Lat =40.500362, Lon. -80.013142 if you want to see the location on Google Earth).

There's a photo album on our Google Group web site of the work done. Point your browser to:

<http://groups.yahoo.com/group/AAAPgh/photos/album/1184618504/pic/list>

The marker has now been replaced. I visited the site again and sealed the gap between the post and the sign, as well as the threads of the setscrews to keep the winter salt spray out and prevent corrosion of the setscrews in the future. Long may it stand!!

STAR PARTY MURRYSVILLE COMMUNITY PARK

April 25, 2009

By Bill Moutz

Rob Hunter of Murrysville Parks and Recreation (phone 724-327-2100 ext. 115) has requested a second annual star party at Murrysville Community Park starting at 7:00 p.m. Last year we had a great turnout from the community and from members of the AAAP. All club members are invited to bring their telescopes or binoculars and come out to view the stars with the community at a great site. For driving directions, email Bill Moutz at:

sailboat25@verizon.net.

STAR PARTY AT NORTH ALLEGHENY HIGH SCHOOL

April 1, 2009

By Dennis Morton

Telescope Convention/Star Party
(Underwritten by the N.A. Foundation)
When: Wednesday, April 1, 2009 from (Sunset) 7:30 PM-?
Rain date: Saturday, April 4 at Wagman Observatory in Deer Lakes Park.
Where: Field behind McKnight Elementary and N.A.I. (500 Cumberland Road, Pittsburgh, PA 15237)
Who: Dennis Morton and the Amateur Astronomers Association of Pittsburgh invite all North Allegheny students and their families to share the night sky.
Why: Schmidt-Cassegrain Meade Telescope LXD75 SC-8 has been purchased for the students at North Allegheny through a grant from the N.A. Foundation. During the North Allegheny Telescope Convention, we will be observing these and other celestial objects: Moon, Saturn, Spring Constellations and will have discussions on light pollution.

Follow the luminaries from the parking lot between McKnight Elementary and N.A.I.. to our location in the field behind

McKnight. This is a central location in the school district that most students/parents will be able to find. If it is a cloudy evening, this event will be rescheduled for the rain date. Check the web site below for more information.

<http://teachers.northallegheny.org/dmorton/exploringwithatelescope.htm>

For more information, I can be reached at (412) 369-5509.

ASTRONOMY OUTREACH AT THE ZOO

By Kathy DeSantis

The Zoo-Aquarium is a great place to emphasize preserving dark skies, is not just for astronomers, but also of value to animals and to the human animal; think circadian rhythms. Plus the Zoo-Aquarium is a fun place, attracts big crowds, and is reasonably close to Wagman.

Members are needed to operate AAAP's table at the Pittsburgh Zoo and Aquarium on **Saturday, April 18, 2009**, 10:30AM-4:30PM. This is a brand new event for the Zoo and Aquarium and in addition to being their Earth Day Celebration, it features Green Market Place.

<http://www.buylocalpa.org/event/view/308>

The market place is covered so come rain or shine they will be there! Map link:

<http://www.buylocalpa.org/map/location/5495>

Address: Pittsburgh Zoo & PPG Aquarium, One Wild Place, Pittsburgh, PA 15206

It was promised at the March membership meeting. Efforts were in play to secure an April 18 venue accessible to the northern environs. We hope many members will turn out for this. Interested members, please reply on or off list. It is hoped one or more will step up to handle the registration and to be point person(s), for the Zoo-Aquarium Earth Day Venue, and many others will offer to be there as well, even for a short period of time. This gives AAAP another opportunity to advance astronomy and dark skies. Earth Day venues are especially receptive to dark sky promotion.

There is a wealth of material available for anyone interested. More below.

Some dark sky resources:

1. See the NSN resources, including telecon PowerPoints.
2. See the International Dark Sky Association.
<http://www.darksky.org/mc/page.do>
3. Light Pollution National Geographic Magazine
<http://ngm.nationalgeographic.com/2008/11/light-pollution/kiinkenborg-text>
4. GLOBE at Night - Home page
<http://www.globe.gov/GaN/>
5. <http://www.skyandtelescope.com/resources/darksky>

STAR PARTY REQUEST FOR AMOS K. HUTCHINSON ELEMENTARY SCHOOL IN GREENSBURG

By Zana Aebi

I am a fourth grade teacher at Amos K. Hutchinson Elementary School in Greensburg, PA. My sister has been into astronomy for decades in Ohio and is our "knowledge of astronomy" keeper. At the beginning of this year we read a story in class about a "star party" and my students were interested. I explained that people get together with telescopes and observe what is happening in the night sky, share the information, and have fun. They said that they would like to have a star party. I am not an astronomer in the family, so I contacted my sister. She recommended some things and said that she would be able to come in from Ohio for the event. I thought that would be good for four or five students, but now the event is blossoming and we will have at least twenty students with parents involved. I got some information about your organization from Tina Branthoover, secretary at Metzgar Elementary. Her son was involved in the club at Metzgar from grades 3 through 5 and is now at the middle school. Anyway, are you or any members of your club interested in sharing some astronomical knowledge with an eager bunch of elementary school students? We have planned the event for **April 16**, it's a Thursday, and it will be from 7:00 until 9:00 - this is a school night so we couldn't say that it would last later. We are aware that it will not be dark until closer to 8:00, so the students are planning some activities in the cafeteria to spark interest of all age level students including crafts, storytelling, and games. We will have refreshments in our "one-room schoolhouse" and then from 8:00 until 9:00 we are hoping to have people with telescopes and binoculars on the ball field to share their love of the stars with the students. Please let me know what you think of this event and if you or anyone you know would be interested. We figure that even if there are clouds, we can have the students look at other things through the telescopes so they can get the idea of how interesting it is.



EARTH DAY CELEBRATION AT FRICK PARK

By Patty from Frick Environmental Center

Earth Day Celebration at Frick Environmental Center is on Saturday, April 18, 2009. We are planning the day to include nature exploration and information, craft activities, entertainment, topics on sustainable living, and hands-on restoration projects in the Reserve.

The event is open to the public from 11 a.m. until 4 p.m. **We would like all presenters to arrive between 10 – 10:30 a.m. to be set up by 11 a.m. Please arrive no later than 10:30 a.m.** As agreed, you will conduct your activity until 4:00 pm. When you arrive, please check in at the right-hand gatehouse, where you can sign-in, pick up a discount voucher for food vendors, and be directed to your site.

Our parking lot will be closed to the public until 10:30 a.m. You can present the parking pass below to pull in and unload, and then park as long as space is available. If no spaces are available, you can pull in to unload, then look for a parking space along Beechwood Boulevard. After 10:30 a.m., the lot will be opened to the public.

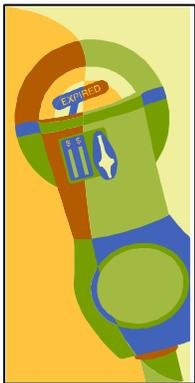
As agreed, you will conduct astronomy activities until 1:00 pm. We will provide you with 4 8' table and 6 chairs and a 10 x 10 tent. The entire event takes place outdoors. In the event of inclement weather, please dress appropriately.

In an effort to reduce the use of individual bottled water, we are asking all partners to **bring your own drinking cup or container for water.** We will have a volunteer coming around to refill your cup, or you can visit one of the water stations at the festival.

At the end of the event (4:00 p.m.), please clean up your area as best you can, placing all trash in the nearest receptacle. *FEC clean-up crews will be responsible for breaking down tables, chairs and tents.*

Below is a parking permit. If you have any questions, feel free to give me a call at (412) 422-6538. I am the Earth Day coordinator. In case of an emergency, my cell phone number for the day of the event is **(412) 445-7166.** We will have some small snacks available, but you may want to bring a lunch or additional money for food vendors. **Please call us at (412) 422-6538 for additional information or go to the following website for map, safety information and parking pass.**

<http://groups.yahoo.com/group/AAAPgh/files/ConfirmLetter%2709-AAAPB.doc>



Earth Day 2009 PARKING PASS

Use this pass to park in the Frick Environmental Center lot before 10:30 a.m. on 4/18/09.

Parking is available on a first-come, first-serve basis. Once lot is full, parking is available on Beechwood Blvd. The lot will be opened to the public at 10:30 a.m., if space allows.

VOLUNTEERS NEEDED AT CARNEGIE SCIENCE CENTER FOR SUN-EARTH DAY ON APRIL 18, 2009

By Kathy DeSantis

We need some members to represent AAAP and pass out information, and optionally to talk about astronomy or do a demonstration at the event. If you only want to pass out information and take in one or two free planetarium shows, that works also.

Saturday, April 18, 2009, Carnegie Science Center from 8:30AM -1:00 PM for "Sun-Earth Day". Pittsburgh Regional Center for Science Teachers is sponsoring a teacher workshop.

Free - Watch Two Planetarium Shows:
—11:00 AM Two Small Pieces of Glass
—11:30 AM The Digital Universe

Help the Pittsburgh Regional Center for Science Teachers and Carnegie Science Center spread astronomy education to teachers. Sun-Earth Day is a series of programs and events that occur throughout the year. For 2009, there is a celebration of IYA 2009, and especially of daytime astronomy. This teacher's workshop is designed to promote and highlight the Sun and its connection to Earth and other planets and to support the spirit of international cooperation.

We realize the Sun is quiet but they want to take a peak at it at 12:30 PM that day if anyone has solar viewing equipment to share the view. Please contact me for more information if you are interested at Desantisk@aol.com.

LOGGING INTO THE NIGHT SKY NETWORK

By Kathy DeSantis

Logging into NSN Outreach Events in 2009 is so easy. NSN is considering all outreach events "logable" in 2009. All club members with NSN usernames and passwords can log events. (This is the same).

Members who have not "learned" the toolkits online at the NSN website (<http://nightsky.jpl.nasa.gov/>) may have felt too unfamiliar to easily fill out the forms. This year IYA 2009 is easy because all outreach events are considered logable.

Previously, outreach events that used or advanced the principles of NSN materials (toolkits) were considered "logable" when specific parts of named toolkits involved were identified. Typically, knowledge of the toolkit parameters was intrinsic to readily knowing correlation between outreach event components and toolkits along with time involved deterred many from wanting to log events. This year it is not a problem. All outreach events are considered logable, because of the big umbrella of IYA 2009.

Let's get logging and represent AAAP as one of the leading amateur astronomy clubs in the USA. All club members are invited to get NSN usernames and passwords by submitting an email request, with (1) name, (2) phone and (3) email.

Submit email request (First and Last Name, Email, Phone Number) to any of the following NSN coordinators:

Kathy DeSantis: Desantisk@aol.com

Ed Moss: edward.moss@verizon.net

Bill Moutz: sailboat25@verizon.net

Joyce Osborne-Fischer: joyceosborne-fischer@msn.com

PETE ZAPADKA SPEAKS WITH ISS ASTRONAUTS

By Eric Fischer and Pete Zapadka

Eric Fischer wrote: Another AAAP first: The ISS and Shuttle astronauts conducted one of their regular news media interviews this afternoon. The Post-Gazette and two other news outlets interviewed Pittsburgh native, Mike Fincke, who was accompanied by three other astronauts. Pete was one of two PG staffers asking questions (the other was Bill Toland), including one from me about coping with long-duration flights, and another Pete asked relating to Mike Fincke's appearance on the TV show "Enterprise".

Congratulations to Pete for being (we believe) the first AAAP member to speak with an astronaut in space.

Pete Zapadka wrote: As Eric was so kind to point out, I was blessed with the chance to speak with ISS Commander Michael Fincke in a project for the Post-Gazette. It was fairly short-notice and we had little idea of how things would work, so bear with us in the video. Even though I understand delays, this still was a bit confusing. We could not see the astronauts, even after the delayed video feed started, so we had no idea there were four of them there at the time. Because Mike is from Pittsburgh, we focused on him and we were sharing time with Reuters and Voice of America, so we only had about six minutes in all.

So for our first effort in this brave new world, here it is: <http://www.post-gazette.com/multimedia/?videoid=101682>

I hope you enjoy it. It was an exciting experience, to be sure!

WINTERFEST 2009

By Tom Reiland

Here's the list of all the members who helped with Wagman Winterfest 2009. Thanks all yinz brave souls who ventured out in the cold and cloudy conditions.

Flac Stifel
 Pete Zapadka
 Bill Hayeslip
 Frank Pastin
 Mary DeVaughn
 Tim Manka
 Bill Yorkshire
 George Guzik
 Fred Klein
 Bill Moutz

Mike Nizinski
 Tom Reiland
 Brent Hudock
 Sherry O'Neill
 Kathy DeSantis
 Jim Klueber
 Eric Fischer
 Lori Seitz
 Terry Trees



Photo by Pete Zapadka



Photo by Pete Zapadka



Photo by Pete Zapadka

LIGHTING ORDINANCE

By David J. Brugger

The International Dark Sky Association (IDA) combined with the Illuminating Engineering (IES) Society have made significant progress in the creation of a Model Lighting Ordinance. It is in the final stages of review and will be available for publication in April, 2009. You can review the draft ordinance at:

<http://www.darksky.org/mc/page.do?sitePageId=84399>

Membership in the International Dark Sky Association can cost as little as \$50.00. Considering how much you save in the very reasonable dues to belong to most astronomy clubs, \$50.00 is a modest additional investment in regaining an unpolluted view of the sky we love. In addition, we will be passing on a heritage to future observers. Of equal importance is having the ability to download and print the ordinance. You can then pass it on to the political leadership or the places where you live and encourage passage into law. Properly directed, low level lighting is less expensive to operate, no more expensive to purchase, longer lasting, less blinding to drivers and pedestrians, and better for viewing the night sky. Everyone wins! Please join the IDA and do your part to give the gift of the night sky to everyone, including yourself.

MOON LIBRATION PICTURE OF THE DAY

By Bill Hayslip

After the talk about the Moon, observing last night, I recalled a nice Picture of the Day that better showed the Moon's libration. I found it again and thought others might also enjoy it: <http://antwrp.gsfc.nasa.gov/apod/ap070902.html>

PHOTOS OF SPACE OUT WEEKEND AT CARNEGIE SCIENCE CENTER

By Ann Norman

Here is my slide show of Saturday, March 28 at Space Out Weekend. Ed P., who was set up beside me, had a lot of success using an inflatable globe and a white ball to show kids the relative sizes and distance between the Earth and the Moon.

<http://w74.photobucket.com/albums/i269/justTrippn/?action=view¤t=5a2583c9.pbw>

SATURN TRANSITING MOONS PICTURE OF THE DAY

By Al Paslow

The Astronomy Picture of the Day, has an incredible image of Saturn and Transiting moons.

<http://antwrp.gsfc.nasa.gov/apod/ap090319.html>

OBSERVATIONS

Tom Reiland: Taken from Yahoo Groups 03/14/09. I decided to stop at Wagman Observatory to do some observing with my 10 X 50s. Dan Cousineau was there with his wife trying out his new scope. I made several deep sky observations and spent several minutes looking for Comet Lulin. It has faded significantly since my last observation on March 3-4. I estimated it at 7.0 to 7.5 mag. I had no trouble finding Messier objects 3, 31, 33, 34, 35, 36, 37, 38, 41, 42, 43, 44, 45, 46, 47, 48, 50, 52 and 103. Conditions were better than I expected, but not great. There were a few scattered cirrus clouds and a chilling wind out of the WNW. I didn't stick around very long. It was a very successful night for me.

Tom Reiland: Taken from Yahoo Groups 03/18/09. I arrived at Wagman Observatory at sunset to find Jack Landman and Andy Smith getting ready for a night of observing. Dan Cousineau and John Holtz came up a little later and Erick Fox showed up sometime after midnight. Some of us got to see both ISS/Shuttle passes. The first was much better even though it was in the bright twilight fifteen to twenty minutes after sunset. I had no trouble locating Comet Itagaka in Aries.

I estimated it at 10.5 mag. The conditions were not good for the Near Earth Asteroid 2009 FH. It was too windy, the seeing wasn't great and there were patches of cirrus clouds going through. I tried for the supernova in NGC 5301 in Canes Venatici, but I couldn't confirm the occasional blips I saw from time to time.

Comet Lulin continues to fade. I put it at 7.7 mag. It wasn't easy to see in my 10 X 50s. Ceres has dimmed slightly to 7.2 mag and was not hard to find. I zipped through the Coma-Virgo group, along with some galaxies in Leo, Canes Venatici and Ursa Major. I finished observing with the 21-inch and the 5-inch at 2:20 AM EDT and started to pack up. Erick Fox was still there when I left at 3 AM. Thus far, I've surpassed all my observing totals through the end of March 2008 and that included a leap day. There are still two weeks to go for this month.



IMPORTANT DATES

April 1—North Allegheny High School Star Party

April 2—First quarter Moon 10:34 a.m.

April 2-5—100 Hours of Astronomy

April 3—Carnegie Science Center

Wagman Star Party

April 4—Wagman Star Party

April 7—Saturn 6° north of Moon

April 9—Full Moon 10:56 a.m.

April 10—7:30 p.m. Membership Meeting at Carnegie Science Center

TV show PBS 400 Years of the Telescope

April 13—Antares 0.4° south of Moon

April 15—Mars 0.5° south of Uranus

April 16—Amos K. Hutchinson Elementary Star Party in Greensburg

April 17—Mingo Star Party

Last quarter Moon 9:36 a.m.

April 18—Earth Day

Mingo Star Party

Outreach at the Zoo

Frick Park Earth Day Celebration

Carnegie Science Center Sun-Earth Day

Venus 6° north of Mars

April 19—Jupiter 2° south of Moon

Neptune 2° south of Moon

April 21—Lyrid Meteor Shower

April 22—Earth Day

Uranus 5° south of Moon

Venus 1.1° south of Moon

Lyrid Meteor Shower

April 24—Star Party at Edgewood Country Club

New Moon 11:23 p.m.

April 25—Star Party at Murrysville Community Park

Mt. Lebanon Earth Day

April 26—Mercury at greatest elongation 20° east

Mercury 1.9° south of Moon

April 28—Moon at perigee

May 1—Wagman & Mingo Star Parties

First quarter Moon 4:44 p.m.

May 2—Mingo Star Party

Venus at greatest illuminated extent

Astronomy Day

May 4—Saturn 6° north of Moon

May 5—Eta Aquarid Meteor Shower

May 6—Eta Aquarid Meteor Shower

May 8—7:30 p.m. Membership meeting at Carnegie Science Center

May 9—Full Moon 12:01 a.m.

May 10—Antares 0.6° south of Moon

May 13—Moon at apogee

May 15—Mingo Star Party

May 16—Mingo Star Party

May 17—Last quarter Moon 3:26 a.m.

Jupiter and Neptune 3° south of Moon

May 18—Mercury in inferior conjunction

May 19—Uranus 5° south of Moon

May 21—Venus 7° south of Moon

Mars 7° south of Moon

May 24—New Moon 8:11 a.m.

May 25—Jupiter 0.4° south of Neptune

May 27-28—Delta Aquarid Meteor Shower

May 30—First quarter Moon 11:22 p.m.

May 31—Saturn 6° north of Moon

NOTICE TO ALL STAR PARTY ATTENDEES

Please take and submit photos to the gseditor@3ap.org so we may include them in the Guide Star.

DON'T FORGET TO COME OUT TO THE MAY CARNEGIE SCIENCE CENTER BUSINESS MEETING AND VOTE FOR CLUB OFFICERS. BALLOTS WILL BE IN THE MAY ISSUE OF THE GUIDE STAR.

Amateur Astronomers Association of Pittsburgh, Inc.

Founded June 9, 1929 by

Chester B. Roe and Leo J. Scanlon

2008-2009 Executive Officers:

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gseditor@3ap.org

AAAP Member Dues*:

AAAP Dues:	\$24.00
Junior Member (under 18):	\$15.00

***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



Please submit any articles for the Guide Star to the Guide Star Editors at gseditor@3ap.org by the 20th of each month.

****Some websites may need to be copied and pasted in your browser to view them****

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