

The Focal Point

The Atlanta Astronomy Club
Established 1947
May 2009

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Editor: Tom Faber

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May General Meeting

by Keith Burns, AAC President

The next meeting of the Atlanta Astronomy Club will be held on Friday May 8th starting at 8PM. Location is White Hall on the Emory University Campus. Room 207. Directions to White Hall are at the bottom of this article.

The meeting starts out with the monthly announcements PowerPoint program that will run before the meeting starts and at the very beginning of the meeting. After that, we move on to our featured speaker of the night. Dr. Chip West of the Atlanta Air Route Traffic Control Center will give a talk titled, "Factors affecting visibility." Dr. Chip West (photo below) is the meteorologist in charge of the Atlanta Center Weather Service Unit, Atlanta Air Route Traffic Control Center in Hampton, GA. Dr. West will tie together the relationships between cloud types and other atmospheric phenomena with how well or not the night sky will appear. After the main

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Photo by Larry Owens.

Woodruff Boy Scout Summer Camp 2009

by Sharon Carruthers, AAC Treasurer

The Summer Scout Camping season is fast upon us. This is our best opportunity to fulfill our Club mandate to "educate" and "to promote the public knowledge of and interest in astronomy".

We are asking for volunteers to come up to Woodruff Boy Scout Camp (a few miles east of Blue Ridge) and set up one or more telescopes to give the scouts an opportunity to use and view through the scopes in order to earn their Astronomy Badge. You can bring and use your own telescope or we also have several telescopes in the warm-up shed that you can use - a 10-inch Discovery Dob and I also have 3 other Dobs that I will leave in the shed - however I may take one if I need it for another event during the week. (The Club's 24" is now at the DAV).

Our on-field viewing with the telescopes will be on Thursday nights, after dark (from 9:30 - 10 PM.).

We need volunteers to commit to going up to Woodruff on Thursdays, from June 4 - July 23. Please phone (770-941-4640 - home) or e-mail (Treasurer@AtlantaAstronomy.org) me if you can commit to helping out on one or more evenings listed below. We will need help on the following dates:

- Thursday June 4
- Thursday June 11
- Thursday June 18
- Thursday June 25
- Thursday July 2
- Thursday July 9
- Thursday July 16
- Thursday July 23



Club volunteers Peter Macumber, Joe Sheppard, Nicole Johnson & Philip Johnson showed campers views of the night sky at the final summer session at Woodruff on July 24, 2008. Photo by Philip Johnson.

Membership Renewals

The AAC has moved to a "one-date-for-all" membership renewal. ALL CLUB MEMBERS, with some exceptions, should have submitted their \$30 (\$35 if you receive the mailed *Focal Point*) dues for 2009 by March 20th - The Vernal Equinox. If you have not yet renewed your membership (look for an xxx on the mailing label if you receive the mailed *Focal Point*) please do so right away. Contact Sharon Carruthers to renew your membership or for more information (Treasurer@AtlantaAstronomy.org).

talk is finished, we will hold our monthly business meeting. This is also the meeting at which we hold our yearly elections. The slate of candidates and other information are included in another article entitled, "AAC Elections for Year 2009-2010" (See article right).

Directions to White Hall and Parking

Emory University is in the process of making improvements to the parking and roads. So for the next year, we will have to endure road construction plus the closing of some of our favorite parking spots. For now, the best places to park are the Peavine Parking Deck and the Fishburne Parking Deck. Fishburne Parking Deck is located on Fishburne Drive. When driving on North Decatur Rd, turn onto Dowman Drive (Dowman is now a one-way road into the campus now from North Decatur Road. Exit either by Oxford Road or Fishburne Drive) and then right on Fishburne Drive. You can also access Fishburne Drive from Clifton Road southbound on right before the N. Decatur Rd intersection. Note the Fishburne Parking deck is actually accessible from Fishburne Lane. When driving on Fishburne Drive, watch for the parking lot signs. The parking deck is located behind the Rich Building.

The Peavine parking deck is accessible from North Decatur Road. Take N. Decatur Rd to Oxford Road. Oxford is accessible from N. Decatur Road at two spots. If you are traveling east on North Decatur, then turn right onto Oxford. If traveling west, turn left onto Oxford. Take Oxford Road to the back entrance of Emory and turn onto Eagle Row. Take that to the Peavine parking deck. Note Peavine is across the street from the running track. You can also access Peavine from Clifton Road. Take Clifton south from Briarcliff Road. Turn right onto Asbury Circle. Asbury Circle changes names to Eagle Row. Parking deck will be on right side of road.

Directions to White Hall are on page 7. See the Emory web site for more details and directions: www.emory.edu

Upcoming Meetings

June 5th, Tom Faber and Keith Burns will be talking about satellites - Viewing them, photographing them, and tools to predict time and location to see them. Plus Tom will cover the types of satellites and a bit of history.

July 10th, Former AAC member Art Russell will talk about Planetary Nebulae.

Bradley Open House Series 2008-2009 "Astronomy Before Galileo"

Humans have been gazing at the stars since they could look up, and have kept written records about motions in the heavens for millennia. This year, we will explore the rich history of astronomy and astronomical thought that predates Galileo. Our speakers will come from a variety of ancient disciplines including astronomy, architecture, classical studies, history and theology. All talks at 8PM unless noted. See <http://bradley.agnesscott.edu/> for more information.

Spring 2009

May 8 - Bill Brown (Columbia Theological Seminary) - "The Heavens are Telling the Glory of God": The Cosmos According to Ancient Israel



AAC Elections for Year 2009-2010

by Keith Burns, AAC President

The 2009-2010 elections will take place on May 8th. There are 6 officer positions and 2 board positions. The officers handle the day-to-day operations of the club: The President runs the monthly meetings. The VP Programs arranges speakers for monthly meetings. The VP Observing arranges observing events. The Treasurer handles the finances of the club. The Corresponding Secretary edits and publishes our monthly newsletter, the *Focal Point*. The Recording Secretary keeps the minutes of all the meetings. The officer's terms are for one year.

The AAC Board members are your representatives. Their basic responsibility is to attend board meetings where they decide on club business and policy. A board member term runs for two years.

Here is the list of candidates we have. Keith Burns running for president, Dave Lumpkin running for VP Programs, Daniel Herron running for VP Observing, Sharon Carruthers running for treasurer, Rich Jakiel running for recording secretary, Tom Faber running for corresponding secretary, and Marie Lott running for a board seat.

More than one person can run for an office or a board seat. Any AAC club member, including the Elliott Chapter members, who wants to run for one of these offices or seats, should contact me at president@atlantaastronomy.org. We will also take nominations from the floor on the night of election. You may also contact me if you have any questions about the election. My contact information is also listed on page 7 of the newsletter. Thank you for volunteering!

Charlie Elliott Chapter Meeting Minutes

by Theo Ramakers, CE Chapter Director (filling in for Ken Poshedly)
(Minutes have been edited for space constraints.)

The meeting was held at the Charlie Elliott Wildlife Visitor Center March 27 and called to order at 4 PM. by CE Chapter Director Theo Ramakers. The final attendance was 29 members and guests.

Following welcoming remarks by Theo, Fred Buls presented his talk on radiometric dating. Fred explained how scientists determine the age of rocks in general and specifically in rocks coming from the solar system and beyond. Because of initial Internet problems, Fred started his explanation on the whiteboard but soon we were able to switch over to his standard Internet based presentation. The discussion ended with some graphs showing the results of some real rock samples analyzed. Following Fred's presentation was the pot luck.

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Fred Buls and one of the young attendants who came to see the moon rocks. Photo by Theo Ramakers.

The potluck dinner portion of the meeting was followed by member Jim Honeycutt, who explained the background of the Moonrock exhibit. Jim has been certified by NASA since the late 1980s to conduct these Moon rock presentations and exhibits, and was able to bring them here in time for Fred's presentation on how the samples brought back from the Apollo missions helped in determining the age of the Solar System and the universe. After his presentation, everyone was able to take a very close look at the Moon rock samples using special bino viewers; youngsters especially waited eagerly to see the samples so very closeup.

Jon Wood's "Observing 101" segment included a listing of upcoming sky events and spring constellations, images from many sources including the Hubble Space Telescope, and an account of his recent hunt for and imaging of Comet Lulin. For more details on Jon's presentation see the CE web site.

Because of two major presentations and the pot luck dinner, we exceeded our time and Theo did not show his Current Events presentation this time. Theo explained that CE Chapter members will participate in next week's 100 Hours of Astronomy with four sessions being scheduled. The meeting was adjourned at approximately 7:45 PM.

Charlie Elliott Future Meetings

The Meeting dates for the Charlie Elliott Chapter have now been set for 2009. All meetings are on Saturdays: May 16 (JAKES Day), June 20, July 18, Aug 22, Sept 19, Oct 17, Nov 14, Dec 19. Please note that the March, June, September and December Meetings are our Pot Luck Dinner Meetings. For meeting updates and other information please check the CE chapter website: <http://www.CEastronomy.org> Thanks and Clear Skies, Theo Ramakers.

(Editor's Note: Since there was no general meeting of the AAC in April there are no meeting minutes in this issue of the Focal Point. The following event took the place of our regular monthly meeting.)



AAC and Bradley Observatory Host "100 Hours of Astronomy" Event

by Kat Sarbell (Photos by Tom Faber)

On Friday April 3rd, in place of our usual monthly meeting, the Atlanta Astronomy Club and Bradley Observatory at Agnes Scott College held a joint open house and public observing session for the worldwide event "100 Hours of Astronomy." I went there after work with Tom Faber, and we brought my Astroscan. Our friend and AAC president Keith Burns met us there. When we arrived, there were several other club volunteers set up out in front of the observatory. (*photos below*) Tom Buchanan had already set up his refractor. Sharon Carruthers, the treasurer for the club, brought her 10-inch Dobsonian. Just about all the different "species" of telescopes were assembled out on the grass, like Newtonians and Schmidt-Cassegrains. Unfortunately I didn't get the names of every AAC volunteer there with a scope. Each person there was very helpful in showing the visitors different sights in the eyepieces.



It seemed like the whole neighborhood was there: Moms and Dads arrived with their kids. (*One of the visiting families is pictured to the left.*) Groups of students met for a fun night out. Even curious bar-hoppers from downtown Decatur wandered through. This of course created a very hectic night for observatory director Dr. Chris De Pree as he tried to make sure everything ran smoothly.

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Dr. Chris De Pree on the front steps of Bradley Observatory.

To be hospitable, the students volunteering at the observatory set out pots of coffee and overflowing plates of cookies that were quickly devoured by the guests. There was a planetarium show inside, and Dr. Amy Lovell demonstrated all the wonders of the night sky to the visitors. Guests also climbed the stairs to the top of the observatory to look through the 30" Beck telescope. Curious folks lining up at the eyepiece kept astronomy students and observatory assistants Allison Smith and Mary Hinkle very busy. In the auditorium, Dr. De Pree set up a projector so that visitors could sit down and watch streaming live video of "100 Hours of Astronomy" events at observatories around the world (*photo below*).



Agnes Scott astronomy students and observatory assistants Allison Smith (at telescope) and Mary Hinkle along with AAC president Keith Burns.



Visitors line up to look through the volunteers' telescopes on the moonlit plaza in front of Bradley Observatory.



Dr. Amy Lovell began the planetarium show with a video "fly-thru" of the stars of Orion.

CE Chapter's "100 Hours of Astronomy" Events

by Theo Ramakers, CE Chapter Director

The Chapter's 100 hours of Astronomy has come to an end. It was a long but very rewarding 4 days. We held 4 outreach events which were published on the 100HoA website as well as local media, and the people that visited us during the events were very excited about what they could observe. We would like to thank all participants, Dale Harrison, Debbie and Clevis Jones, Marie Lott, Jon Wood, Stephen Ramsden, Ken Poshedly, Alesia Rast, Kristen and Theo for their hard work and dedication in making this such a great success.

Following an article about the event in the Rockdale and Newton Citizen a week earlier, it started with the Covington Library event on April 2nd. Despite the clouds and misty rain, 5 interested people made the trip to the event. Since they could not look at Saturn through our scopes we showed them the movie Ring World and had a talk with the kids about the solar system. Since we did not expect a large turnout because of the weather, Theo took care of this event.

Friday evening was a closed event for students, family members, and friends of the George Walton Academy in Monroe. Our Dale Harrison was the coordinator. Jon Wood, Clevis and Debbie Jones, and Theo Ramakers set up their scopes up next to the base ball field and were happy when the lights on the field went out. While Debbie gave them a grand tour of the sky through the bins, Jon, Clevis and Theo let them see the details of the moon, including Rupus Recta, Saturn, some galaxies, nebulas and star clusters. We had about 30 individuals attend this star party and we overheard some of the students saying how much they were learning about astronomy and how it would help them in class!!



Saturday marked two events. A solar event in the Newton Shopping Center in Covington (photos left column) and a Star Party at Charlie Elliott Wildlife Center (photos below). The Solar event did attract around 75 individuals who took a look at the Sun. While Stephen Ramsden, Marie Lott, Debbie and Clevis Jones gave further explanations of what they were seeing, Theo was working to bring the people to come over. Despite the fact that the sky was 75% overcast at the beginning of the event, almost 30 interested people showed up at Charlie Elliott Wildlife Center at night. Clevis, Stephen, Theo and a new friend Jim brought their scopes out, and Ken provided additional explanations. It was a real challenge with the fast moving clouds to give everyone a chance to look at our Moon, Saturn with its moons Titan, Enceladus and Dione, and not to forget the Orion nebula and the galaxy pair M81 and M82. However, the good thing about the clouds was that it gave us the chance to have some great discussions with the visitors!!

Over all, this was a very successful 100 Hours of Astronomy!! Click here www.ceastronomy.org/gallery/mail.php?g2_itemId=6300 for some pictures of the events and we believe that we will get some new members from those that attended as well!!

Thanks again to all who made this happen.



Photos by Theo Ramakers

Georgia Regional Astronomers Meeting

by Larry Wallace

The annual meeting will be held at North Georgia State College in Dahlonega on Saturday November 7, 2009. The program will run roughly from 9 am to 6 pm, with presentations and poster sessions focused on three tracks:

- * Research (primarily universities & graduate students)
- * Education (astronomy or general science)
- * Amateur contributions (personal science or professional collaborations)

This is a great opportunity for anyone in the greater Atlanta astronomy community to showcase or present work they have done which highlights or strengthens the contribution of amateurs in the field we all love. Potential subjects could be as varied as supernova and comet discoveries and studies, variable star measurements, period novae, occultation observations, photometry using low-cost modern CCD cameras, spectroscopy, corrections of errors of astronomical catalogs, remote control and observations, etc. This early notice is particularly geared towards anyone who currently is, or recently has been, active in this way, and may want to consider putting together a poster session or even giving a brief (5-10min) talk.

Astronomy has progressed a very long way since Galileo's first use of the telescope 400 years ago. As a highlight, there will be a public talk on Saturday night about the James Webb Space Telescope. The presenter will be Jonathan Gardner of NASA's Goddard Space Flight Center. Mr. Gardner is Chief of the Operational Cosmology Laboratory, and Deputy Chief Project Scientist for the Webb telescope.

There will be a demonstration and/or full program by Konica-Minolta using their all-digital projector in the college planetarium. The technology is really stunning if you haven't seen it before. The moon will be waning gibbous, and rises about 3 hours after sunset if you want to slip some observing in on Friday or Saturday night (weather permitting), and the school observatory will be open. Further details will be posted as available in the *Focal Point* and on the AstroAtlanta yahoo group, or you may call Dr. Joe Jones at (706) 974-3136.

Hubble Mission Launch Set for May 11

(Editor's Note: The launch of the Space Shuttle Atlantis on the final Hubble servicing mission has been set for May 11th, pending the flight readiness review on April 30th. The following summary of the flights objectives is from the Hubble Space Telescope web site: <http://hubblesite.org>)

Hubble precisely measured the age of the universe. It found evidence of dark energy. It brought you images of distant galaxies in the young universe. And now, with the state-of-the-art instruments delivered by Servicing Mission 4 (SM4), the Hubble Space Telescope will look onto the universe with new eyes, surpassing even its previous vision.

Hubble was designed to be repaired and upgraded by astronauts, and these servicing missions have occurred several times since Hubble's launch in 1990. NASA has selected a crew for the upcoming servicing, and the astronauts are currently training.

In late September, Hubble experienced a malfunction in one of the systems that commands the science instruments, and stores and transmits their data to Earth. The malfunction was corrected by switching to a backup system that was built into the telescope to compensate for this kind of problem.

Because this is a critical system, NASA was unwilling to leave the telescope without another backup in case of future problems. Fortunately, the system was designed to be removed and replaced, and NASA had a spare system waiting on Earth. Engineers have prepared the replacement system, which will now be installed during the servicing mission.

Veteran astronaut Scott D. Altman will command the final space shuttle mission to Hubble. Navy Reserve Capt. Gregory C. Johnson will serve as pilot. Mission specialists include veteran spacewalkers John M. Grunsfeld and Michael J. Massimino, and first-time space fliers Andrew J. Feustel, Michael T. Good and K. Megan McArthur. Grunsfeld, Massimino and Altman have visited Hubble on previous servicing missions.

SM4, scheduled for May 2009, has an ambitious program of activities and three main objectives. The following list of objectives states the mission's current priorities. These will be adjusted once engineers finish their investigation into the malfunctioning of the data storage and transmission system.

The first objective is to extend Hubble's operational life by at least five years. Over a series of five spacewalks, astronauts will replace all six gyroscopes, install new batteries, and exchange a degraded Fine Guidance Sensor with a new one. They will also install replacement thermal insulation on critical component bays of the telescope, and attach a mechanism that will aid in Hubble's final de-orbiting.

The second objective is to enhance Hubble's scientific power. Astronauts will install two new instruments, the Wide Field Camera 3 (WFC3) and the Cosmic Origins Spectrograph (COS). WFC3, which sees in visible, infrared and ultraviolet light, will improve Hubble's sensitivity 10-30 times because of improvements in technology and design that have occurred since the last instruments were installed.

COS, Hubble's new spectrograph, will improve Hubble's sensitivity at least 10 times. Spectrographs are instruments that break light into its component colors, revealing information about the object emitting the light. COS sees ultraviolet light, which is particularly important because most of the ultraviolet light from space is absorbed by the Earth's atmosphere, making ground-based telescope observations impossible.

The third objective is to repair Hubble's out-of-commission instruments, the Space Telescope Imaging Spectrograph (STIS) and the Advanced Camera for Surveys (ACS). STIS stopped working in 2004 and ACS failed in 2007.

ACS is Hubble's most prominent camera. Its wide field of view and ability to see in wavelengths from ultraviolet to visible light allows it to conduct broad surveys of the universe, study the nature and distribution of

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Space shuttle Atlantis on Launch Pad 39A (left) is accompanied by space shuttle Endeavour after Endeavour's rollout to Launch Pad 39B. This is expected to be the final time two shuttles will be on launch pads at the same time. Endeavour will stand by at pad B in the unlikely event that a rescue mission is necessary during Atlantis' upcoming mission to upgrade NASA's Hubble Space Telescope. Photo credit: NASA/Dimitri Gerondidakis

galaxies, and examine some of the universe's earliest activity. ACS was responsible for the Hubble Ultra Deep Field Image, NASA's deepest view of the cosmos.

STIS is a spectrograph. It separates light into its component colors, allowing scientists to examine the object's temperature, chemical composition, density and motion. STIS can see in ultraviolet, visible and near-infrared and has been used to examine black holes, quasars and planets.

If these objectives can be successfully carried out during the servicing mission, then Hubble will be at the apex of its scientific capability, with six working, complementary science instruments. These upgrades will keep Hubble functioning at the pinnacle of astronomy well into the next decade.

Georgia Astronomy in State Parks

The following GASP events are currently scheduled:

June 13 - Tugaloo State Park.

August 15 - Buck Shoals State Park.

November 14 - Red Top Mountain State Park.

For more information about these events, contact Keith Burns at 770-427-1475 or Keith_B@bellsouth.net.



The GASP volunteers at FDR State Park on Labor Day weekend 2004 - From left to right: Joanne Cirincione, Keith Burns, Harold and Claudia Champ with Ginger, Peter Macumber, Sharon Carruthers, Tom Faber, Kat Sarbell, and Holly and John Ritger. Photo by Holly Ritger.

Atlanta Astronomy Club Website

While this newsletter is the official information source for the Atlanta Astronomy Club, it is only up to date the day it is printed. So if you want more up to date information, go to our club's website. The website contains pictures, directions, membership applications, events updates (when available) and other information. <http://www.atlantaastronomy.org>

The **Atlanta Astronomy Club, Inc.**, the South's largest and oldest astronomical society, meets at **8:00 P.M.** on the Friday closest to full moon of each month at Emory University's White Hall or occasionally at other locations or times. Membership fees are **\$30 (\$35)** for a family or single person membership. College Students membership fee is **\$15 (\$20)**. These fees are for a one year membership (\$5 per year extra charge to receive the *Focal Point* mailed).

Magazine subscriptions to *Sky & Telescope* or *Astronomy* can be purchased through the club for a reduced rate. The fees are **\$33** for Sky & Telescope and **\$34** for Astronomy. Renewal forms will be sent to you by the magazines. Send the renewal form along with your check to the Atlanta Astronomy Club treasurer.

The Club address: Atlanta Astronomy Club, Inc., P.O. Box 76155, Atlanta, GA 30358-1155.

AAC Web Page: <http://www.AtlantaAstronomy.Org>. Send suggestions, comments, or ideas about the website to webmaster@AtlantaAstronomy.org. Also send information on upcoming observing events, meetings, and other events to the webmaster.

AAC Officers and Contacts

President: Keith Burns 770-427-1475 Keith_B@bellsouth.net

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focalpoint@atlantaastronomy.org

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Recording Secretary: Rich Jakiel Secretary@atlantaastronomy.org

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Board: William Brannet - Contact Info TBA

Board: Marie Lott 770-496-5774 mtlott@comcast.net

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Elliott Coordinator: Alesia Rast Alesia_Rast@mail.dnr.state.ga.us

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Georgia Astronomy in State Parks: Keith Burns 770-427-1475
Keith_B@bellsouth.net

Light Trespass: Open - Contact Keith Burns if you would like to volunteer.

PSSG Chairman: Peter Macumber pmacumber@nightsky.org

PSSG Co-Chair: Joanne Cirincione
starrynights@AtlantaAstronomy.org

Sidewalk Astronomy: Brad Isley
sidewalkastronomy@atlantaastronomy.com

Woodruff Observ. Coordinator: Sharon Carruthers
Treasurer@AtlantaAstronomy.org

Webmaster Atlanta Astronomy: Peter Macumber 770-941-4640
pmacumber@nightsky.org

Directions to White Hall at Emory

Our meetings are generally held in White Hall. To get to White Hall, turn onto Downman Drive from North Decatur Rd at the five way intersection (across from Everybody's Pizza). White Hall is located across from the new Science & Math building. The best places to park are the Peavine and the Fishburne Parking Decks. The Fishburne deck is located on Fishburne Drive which is accessible from N. Decatur Rd. Turn onto Dowman and then right on Fishburne. You can also access Fishburne Drive from Clifton Road just north of N. Decatur. The Peavine parking deck is accessible from N. Decatur Rd. Turn onto Oxford Rd, go to the back entrance of Emory and turn onto Eagle Row. Take that to the Peavine deck. You can also access the Peavine deck from Clifton Rd. Turn onto Asbury Circle. It's the intersection next to the railroad tracks on Clifton. For maps to the decks see <http://map.emory.edu>. For more detailed directions to Emory University, visit www.atlantaastronomy.org or go to the Emory web site.

Calendar by Tom Faber (Times EDT unless noted)

Upcoming AAC Events are listed in BOLD

May 1st, Friday: Moon First Quarter.

May 2nd, Saturday: **Astronomy Day Events at Tellus Museum and Fernbank Science Center.**

May 2nd, Saturday: Venus at Greatest Brilliance.

May 6th, Wednesday: Eta Aquarids Meteors.

May 8th, Friday: **AAC Meeting/Elections at White Hall, 8PM, Emory University, Bradley Open House - See pg 2 for details.**

May 9th, Saturday: Full Moon.

May 15th, Friday: **June Focal Point Deadline.**

May 16th, Saturday: **CEC Meeting - See pg 4 for details.**

May 17th, Sunday: Moon Last Quarter.

May 18th, Monday: Mercury Inferior Conjunction.

May 21st, Thursday: Venus near Mars.

May 23rd, Saturday: **Dark Sky Observing Event at Location TBA.**

May 24th, Sunday: New Moon.

May 25th, Monday: Jupiter near Neptune.

May 30th, Saturday: Moon First Quarter.

June 5th, Friday: **AAC Meeting at White Hall, 8PM, Emory Uni.** Venus at Greatest Elongation W.

June 7th, Sunday: Full Moon.

June 13th, Saturday: **GASP at Tugalo State Park - See pg 7 for details.**

June 14th, Sunday: Earliest Sunrise (~6:25AM at Atlanta).

June 15th, Monday: Moon Last Quarter.

June 20th, Saturday: **CEC Meeting - See pg 4 for details.** Moon near M45, Venus near Mars.

June 22nd, Monday: New Moon.

June 27th, Saturday: Latest Sunset (~8:52 PM at Atlanta).

June 29th, Monday: Moon First Quarter.

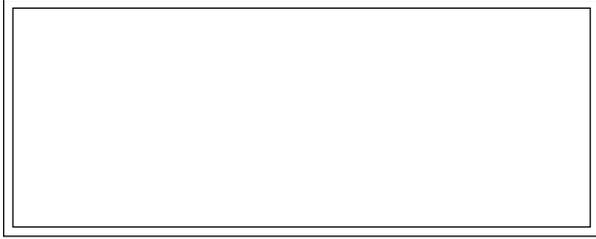
Atlanta Astronomy Club Listserv

Subscribe to the Atlanta Astronomy Club Mailing List: The name of the list is: AstroAtlanta. The address for messages is: AstroAtlanta@yahoogroups.com . To add a subscription, send a message to: AstroAtlanta-subscribe@yahoogroups.com . This list is owned by Lenny Abbey.

Focal Point Deadline and Submission Information

Please send articles, pictures, and drawings in electronic format on anything astronomy, space, or sky related to Tom Faber at focalpoint@atlantaastronomy.org. Please send images separate from articles, not embedded in them. Articles are preferred as plain text files but Word documents are okay. You can submit articles anytime up to the deadline. **The deadline for June is Friday, May 15th at 4:00 PM. Submissions will not be accepted after the deadline.**

FIRST CLASS



Newsletter of The Atlanta Astronomy Club, Inc.

FROM:

Tom Faber

2206 Tretridge Parkway

Alpharetta, GA 30022

We're here to help! Here's how to reach us:



Atlanta Astronomy Club

P.O. Box 76155

Atlanta, GA 30358-1155

www.atlantaastronomy.org