

The Focal Point

The Atlanta Astronomy Club
Established 1947
June 2009

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Editor: Tom Faber

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June General Meeting

by Keith Burns, AAC President

The next meeting of the Atlanta Astronomy Club will be held on Friday June 5th 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 speakers of the night.

The meeting starts with the monthly announcements power-point program that will run before the meeting starts and at the very beginning of the meeting. After that, we move on to our featured speakers of the night. Tom Faber and Keith Burns of the Atlanta Astronomy Club will be giving a talk titled, "Satellite Hunting." Tom is the real expert on Satellites. Keith is just a novice Satellite picture taker who has learned by making many mistakes. After the talk is finished, we will do our business meeting. If you have any announcements you want included in either the announcement power point or talk about at the meeting, please contact the president at president@atlantaastronomy.org. He is the one who creates the monthly announcement power point plus he can schedule you time at the meeting.

The Program

Satellite Hunting: You look up at the night sky night from time to time and see these points of light moving across the sky. Tom and I will talk about what they are. We will give you tools you can use to find out when and where to look up to see them. It's not as complicated as it sounds. If you have a desire to capture pictures of these man-made objects, I will give you tips and techniques to use to do that. There will be lots of pretty pictures for you to see to. Plus a few not so pretty ones just to prove a point. No telescope required! Warning, this can become addictive.

Continued on next page

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.

The Next AAC Board Meeting

by Keith Burns, AAC President

The next Board Meeting of the Atlanta Astronomy Club is scheduled for Sunday, June 7th from 4PM to 6PM. Meeting location is room 301N in the Mathematics and Science Building located across the street from White Hall on the Emory University Campus near Decatur. Contact Keith Burns for more information about the meeting agenda.

Speakers Biographies

Here is the Bios of our speakers in their own words. To spare the audience from having to read Keith's (photo below) Bio for the 4th time in a year, I hereby refer you to the November 2008 *Focal Point*. Tom Faber on the other hand, not many people know. So the Bio you want to read is Tom's (photo bottom). Take it away Tom...

I'm one of those rare people who have lived in and around the Atlanta area my whole life. I've been interested in astronomy and space exploration since I was a kid. I went to school at Georgia Tech getting a B.S. in Physics with the goal of continuing on in Astronomy, but at the time the job opportunities were between zero and nil, so after getting my Physics degree I continued on at Tech to get a degree in Electrical Engineering, which had many job opportunities at the time. After getting my EE degree I started working for Scientific-Atlanta designing telecommunications test instruments. After S-A I worked for a couple other companies and currently work for Zhone Technologies in Alpharetta. My interests in addition to astronomy and space include meteorology, geology, photography, camping, and hiking. I originally joined the old Astronomical Society of the Atlantic club in 1990 then joined the AAC in 1995 after the other club folded. I have served a couple of terms as a board member and I'm now starting my second year as *Focal Point* editor.



Photo by Kat Sarbell

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

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

August 7th, Speaker and Topic TBA.

September 11th, Speaker and Topic TBA.

May General Meeting Minutes

by Richard Jakiel, AAC Recording Secretary

Meeting photos by Tom Faber

The May general meeting and AAC election night started promptly at 8 PM. President Keith Burns presiding with about 30 AAC members in

attendance. After a few quick announcements, Keith introduced the speaker for the evening - Dr. Chip West (right) of the Atlanta Air Route Traffic Control Center. His talk entitled "Factors Affecting Visibility" (below) covered a broad range of interrelated meteorology and astronomy topics. One of the most interesting visuals was how air traffic is routed during the passage of a major storm front. It was reminiscent of ants flowing in and out of an anthill as a giant slowly moves his foot across the area. He also covered major cloud types, fronts, and the factors effecting the formation of fog and haze in the Northern Georgia. Lastly, Dr. West demonstrated some of the numerous graphical functions and maps associated with well-known government sponsored weather web sites.



After the speaker's presentation, Keith discussed the major upcoming Dark Sky observing and GASP events for the summer session. These details can be found in a series of articles in this month's *Focal Point*. Rich Jakiel discussed the AAC's possible involvement with Dragon*Con 2009's Science and Space Track. More details will be forth coming in the upcoming months. After the main business portion of the meeting, the election of officers was conducted for 2009-10. Misty Heron filled the last open board space and the rest of the slate was approved by affirmation by the AAC membership. This motion passed uncontested 30 - 0. Contact information for the newly elected officers and BoD members can be found on p7 of the *Focal Point*.

After the business meeting was concluded, many members and friends gathered at Athens Pizza for food and socializing.

AAC Events and Information

by Keith Burns, AAC President

I wanted to welcome all our returning and new officers and board members. The 2009-2010 group includes, President: Keith Burns, VP Programs: Dave Lumpkin, VP Observing: Daniel Herron, Treasurer: Sharon Carruthers, Recording Secretary: Rich Jakiel, Corresponding Secretary: Tom Faber, Board: Don Hall, Marie Lott, and Misty Herron.

We are planning to have a board meeting in June to elect a new board chairman. The meeting time, date, and location will be announced as soon as the details are worked out. Updated information will be posted on the AAC board listserv and time permitting on the AAC website.

The general meeting dates for the remainder of 2009 are the following: June 5th, July 10th, Aug. 7th, Sept. 11th, Oct. 2nd, Nov. 6th and Dec. 5th.

The proposed general meeting dates for 2010 are the following. Jan 16th, Feb 12th, March 12th, April 16th, May 14th, June 11th, July 9th, Aug 6th, Sept 10th, Oct 8th, Nov 5th, and (Saturday) Dec 4th.

The 2009 Peach State Star Gaze is a weeklong star gaze sponsored by the Atlanta Astronomy Club that will be held on October 11th- 18th, 2009. It runs Sunday to Sunday. Updated information on the event including speakers and pricing will be posted on the PSSG website at <http://www.atlantaastronomy.org/PSSG/> in the next couple of months.

Our new speaker chairman (Dave) is working on speakers for the coming meetings. He is asking for input from members on speakers, so this is your chance to suggest someone you want to see come and speak on an astronomy related topic at one of our meetings. Dave's email is DaveLump@Bellsouth.net.

Daniel Herron is working on a new observing schedule for the remainder of 2009 and the 1st part of 2010. Soon he will post details of upcoming events to the newsletter, the website, and the AAC listserv.

Sharon Carruthers has asked for help again with the summer Boy Scout program up at Woodruff. 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 ask that our volunteers set up one or more scopes and give the scouts an opportunity to use & view to earn their Astronomy Badge. You can or use your own scope; we also have several other scopes in the warm-up shed that you can use - a 10" Discovery dob and I have 3 dobs that I will leave in the shed (I may take one if I need it for another event during the week.). Note the Club's 24" is at the DAV.

Our on field viewing with the scopes will be on Thursday night, after dark (from 9:30 - 10 p.m.).

We need volunteers to commit to go up on Thursdays, from June 4 - July 23. Please phone or e-mail us if you can commit to one or more evenings. June 4, 11, 18, and 25. July 2, 9, 16 and 23. You can reach Sharon via email at Treasurer@AtlantaAstronomy.org or phone at 770-941-4640 (h).

The GASP group is continuing to bring the stars to the campers at various State Parks in Georgia. The Schedule for 2009 is June 13th Tugaloo State Park, August 15th, Bucks Shoals State Park,

And, Nov 14th Red Top Mtn State Park. For more information, please contact Keith Burns at Keith_B@Bellsouth.net.

The Charlie Elliott Chapter of the AAC continues to hold meetings and observing events at the Charlie Elliott Wildlife Management Area. The meetings are held on Saturday afternoons with observing in the evening weather permitting. For more information, see the Elliott website at CEAstronomy.org. Note the Elliott website can be accessed from the main AAC website via a link located at the top of the main page. The Elliott Group also posts updates on events in their area on the AAC listserv.

CE Chapter April Meeting Minutes

by Ken Poshedly, Recording Secretary

(Minutes have been edited for space constraints.)

The April 18 meeting was called to order at 5:10 p.m. at the Charlie Elliott Wildlife Visitor Center by CE Chapter Director Theo Ramakers. The final attendance was 19 members and guests. Following welcoming remarks by Theo, the feature presentation movie "Eyes on the Skies, 400 Years of Telescopic Discoveries" was screened.

After a break was Jon Wood's "Observing 101" segment which included:

- * Computer software renditions from Stellarium.com of the April 26 elongation of the planet Mercury.
- * Announcement that the Space Shuttle Atlantis was scheduled for nighttime lift-off on May 12.
- * A calendar of upcoming meteor showers including the Lyrids on April 22.
- * A computer rendition of the Moon-Mercury-Pleiades assembly on 4/26.
- * An image of what seems to be a new white spot on Jupiter.
- * A computer rendition of Venus's progress in the morning sky.
- * Charts and images of currently visible comets including Comet Cardinal, Comet C/2006 W3 Christensen, and Comet C/2009 F6 Yi-Swain.
- * A reminder and review of current observing resources on the chapter website to assist members in finding nighttime targets.

Following was Theo's "Current Events" segment which included:

- * A recap of the various outreach efforts by the CE chapter.
- * How things went with the recent Globe at Night event held worldwide.
- * Images from the CE chapter's "100 Hours of Astronomy" activities.
- * A movie of the transit of six moons across the globe of Saturn made by the Hubble Space Telescope.

The meeting was adjourned at approximately 7:30 p.m. Several members and guests set up scopes on the observing field hoping for breaks in the clouds, but apparently with no successful observing.



Jon Wood (right) and Carlos Flores in a discussion about imaging while Ken Poshedly enjoys his coffee. Photo by Theo Ramakers.

Charlie Elliott Future Meetings

The Meeting dates for the Charlie Elliott Chapter have now been set for 2009. All meetings are on Saturdays: June 20, July 18, Aug 22, Sept 19, Oct 17, Nov 14, Dec 19. Please note that the 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.



Left: Sidewalk observing early in the evening.

Because of the drizzly and overcast weather, Keith and Daniel already had tables and their telescopes set up inside in the atrium of the Museum. The NWGAA were sitting nearby, also with a variety of different telescopes for Museum visitors to look at - and through! We pointed our scopes to different displays visible inside, such as a model of Sputnik or a painting of an Apollo lunar landing. We also got to pass out a lot of brochures about the club. Who knows, we may have inspired a few more families to join astronomy clubs.

Astronomy Day at Tellus Museum

by Kat Sarbell - Photos by Tom Faber

The staff of Tellus Northwest Georgia Science Museum invited members of the AAC and Northwest Georgia Astronomical Association (NWGAA) to visit on Astronomy Day, which was on Saturday May 2nd. Some of the club officers drove to Cartersville for the event: AAC president Keith Burns and Daniel Herron, now serving as the club's Observing Chair, were the first to arrive. Recording Secretary Rich Jakiel and Pixie Bruner also attended. Club Newsletter editor Tom Faber and myself got there in the early afternoon.



Kat Sarbell adjusts her Astroscan inside the museum.



AAC volunteers from left to right: Kat Sarbell, Keith Burns, Rich Jakiel, Pixie Bruner, and Daniel Herron.



Keith lets some young visitors look through his Astroscan.



Members of the NWGAA chat with families visiting the museum.

To thank us for volunteering, we got to visit the Museum for free. Volunteers took turns watching the tables and telescopes so that others could check out the exhibits. Tellus Museum has a lot to explore, including areas devoted to space travel and other modes of transportation, natural history, and gems, minerals, and fossils.

Late in the afternoon we began disassembling the telescopes and folding up the tables. We AAC folks went to a nearby Cracker Barrel for dinner. Daniel, Keith, Tom, and I stayed behind for sidewalk astronomy that night!

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A display of life-sized dinosaur bone castings appears to be running!



A display of models of past & present rockets at the museum.



A life-size model of the Wright Brothers' first aircraft - the Wright Flyer.



At 9:21 PM that night, we got to see an Iridium flare with a magnitude of approximately -4.

We were worried about clouds and rain ruining visibility that night. Luckily Mother Nature granted us clear skies for about two hours. Many people from the NWGAA returned to set up scopes on a pavilion in front of the Museum entrance. Both Keith and I had our Astroscans on either side of the walkway, and Daniel brought his 10-inch Dobsonian. It was a giant sidewalk observing event with the excitement of a star party. Parents and kids walked around everywhere to look through scopes and ask lots of questions. The Museum's observatory with its 20-inch telescope was open too. We kept our scopes out as long as we could, until clouds rolled back in and we could barely see the glow of the moon.



Volunteers and visitors stargazing on the pavilion.

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The 20" telescope inside the museum's observatory.

We appreciate the invitation from staff and volunteers at Tellus, and how gracious and helpful they were during our visit. It was fun educating the public and doing sidewalk astronomy at such an impressive museum! We're looking forward to working with Tellus for more sidewalk astronomy events. For more information about the Tellus Museum, visit www.tellusmuseum.org.



The path to the observatory.



CE Chapter May Meeting Minutes

by Theo Ramakers, in the absence of the secretary.

May 16th was JAKES Day, Charlie Elliott's outdoor festival. Several of the CE chapter members set up at the conference room in the Visitor Center (photo above) in anticipation of the participants of the Museum Scavenger Hunt. On the big screen, we showed the live broadcast of the STS-125 mission to repair the Hubble Telescope with the 3rd EVA in progress. Jon Wood had set up his scope and connected it to his laptop. Images by CE chapter members, which were used at the Covington library exhibition, were displayed on the wall and used in the one-on-one discussions with visitors to explain the solar system and the individual planets, while posters and other material of the Night Sky Network (NSN) was appreciated by all visitors. A table with books, maps, pictures completed the setup.

Since it was cloudy outside, Stephen Ramsden could not show the Sun through his solar scopes, so we used the material from the NSN to explain the Sun, its relative size and distance to the planets as well as discussions about the individual planets. With Jon Wood's scope set up and controlled by his PC running Stellarium, the kids also loved "flying" through the solar system using Celestia. The material provided by NSN was great in our explanations and was appreciated by all. At the end of the event, 110 visitors had learned a lot about our solar system and astronomy in general. Thanks to Debbie and Clevis Jones, Stephen Ramsden, Jon Wood, and Theo Ramakers who made this event a great success.

At 5 p.m., our meeting began and after a welcome from CE chapter director Theo Ramakers to the 8 attendees, the floor was given over to Debbie Jones, who chaired the elections for the chapter's officers. The previous year's officers were running again for another term and Debbie did not receive any additional nominations, nor were any made from the floor. All previous year's officers were unanimously reelected to their respective positions. The officers were thanked for their efforts over the past 12 months and the program continued with the screening of "400 years of the Telescope", a Journey of Science, Technology and Thought - the NSN version of the PBS Documentary, created by Kris Koenig and Dan Koehler. Following the screening, Theo did a short presentation of the "Current Events" in astronomy and space exploration, which included updates on our outreach program, updates from the NSN and the Hubble repair mission as well as some short movies of the eclipse of two Galilean moons by Anthony Wesley. Jon Wood presented his Observing 101 talk for May. We began with a quick look at Mercury, Superior Conjunction on May 18, moving from evening to morning sky.

Then we looked at various free web site offerings for night sky charts, local rise, transit and set times for the months of May and June, lunar calendars for May and June, and a quick meteor shower update. Next, Jupiter, with the May 17 double shadow transit and the upcoming conjunction with Neptune on May 27, followed by a re-cap of the recent

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Globe at Night Sky Quality Survey. We saw 4 finder charts for several comets and ended with a quick look at Canes Venatici and Jon's most recent attempts at imaging the spiral galaxies M63 and M64. Jon's images are improving and his auto guiding seems to be working better now than over his last several outings. This concluded the meeting.

Later, several members met on the observing field, ever optimistic for a few holes in the cloud cover, but alas, it was not meant to be, though we were able to give member Eric Bozeman some guidance with the proper setup of his new equatorial scope. We also did entertain a local Girl Scout troop, who just happened to be staying at the Charlie Elliot lodge, and Jon was able to describe what we might have seen had the weather cooperated. They enjoyed the explanation and am sure they will be back for more. All in all, a great day.

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

Program Chair: Dave Lumpkin programs@atlantaastronomy.org

Observing Chair: Daniel Herron observing@atlantaastronomy.org

Corresponding Secretary: Tom Faber 770-642-4865 focalpoint@atlantaastronomy.org

Treasurer: Sharon Carruthers Treasurer@AtlantaAstronomy.org

Recording Secretary: Rich Jakiel Secretary@atlantaastronomy.org

Board Chair: Don Hall - donrhall@bellsouth.net

Board: Misty Herron - Contact Info TBA

Board:

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

ALCOR: Art Zorka 404-633-8822 (H) 404-824-7106 (C) star.myth@juno.com

Elliott Ch. Director: Theo Ramakers 770-464-3777 director@ceastronomy.org

Elliott Observing Supervisor: Jonathan Wood 404-374-8750 observing@ceastronomy.org

Elliott Recording Secretary: Ken Poshedly 678-516-1366 poshedly@bellsouth.net

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

Elliott Webmaster: Larry Owens 678-234-5399 webmaster@CEastronomy.org

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 Dowman 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

- June 5th, Friday: **AAC Meeting at White Hall, 8PM, Emory Uni.** Venus at Greatest Elongation W.
June 6th, Saturday: Moon occults Antares.
June 7th, Sunday: Full Moon.
June 13th, Saturday: **GASP at Tugaloo State Park - See pg 7 for details.**
June 14th, Sunday: Earliest Sunrise (~6:25AM at Atlanta).
June 15th, Monday: Moon Last Quarter.
June 19th, Friday: **July Focal Point Deadline.**
June 20th, Saturday: **DSO at location TBA. CEC Meeting - See pg 3 for details.** Moon near M45, Venus near Mars. Mercury near Aldebaran.
June 21st, Sunday: Solstice at 1:46AM.
June 22nd, Monday: New Moon.
June 27th, Saturday: Latest Sunset (~8:52 PM at Atlanta).
June 29th, Monday: Moon First Quarter.
July 7th, Tuesday: Full Moon.
July 10th, Friday: **AAC Meeting at White Hall, 8PM, Emory University.**
July 13th, Monday: Mercury at Superior Conjunction. Jupiter 0.6deg S of Neptune.
July 15th, Wednesday: Moon Last Quarter.
July 17th, Friday: **August Focal Point Deadline.**
July 18th, Saturday: **DSO at location TBA. CEC Meeting - See pg 3 for details.**
July 21st, Tuesday: New Moon.
July 27th, Monday: Delta Aquarid Meteors.
July 28th, Tuesday: Moon First Quarter.
August 5th, Wednesday: Full Moon.
August 7th, Friday: **AAC Meeting at White Hall, 8PM, Emory University.**
August 15th, Saturday: **GASP at Buck's Shoals State Park - See pg 7 for details.**

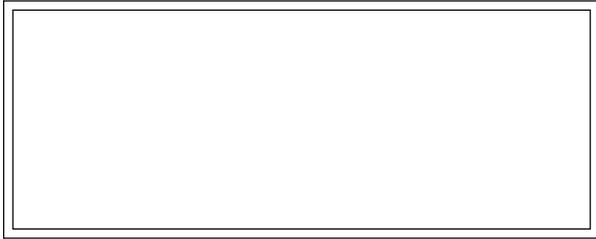
Atlanta Astronomy Club Listserv

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 July is Friday, June 19th at 4:00 PM. Submissions will not be accepted after the deadline.**

FIRST CLASS



Newsletter of The Atlanta Astronomy Club, Inc.

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

Tom Faber
2206 Tretridge Parkway
Alpharetta, GA 30022

Atlanta Astronomy Club
P.O. Box 76155
Atlanta, GA 30358-1155

www.atlantaastronomy.org

