

# The Focal Point

Vol. 21 No. 7

The Atlanta Astronomy Club  
Established 1947  
December 2008

Editor: Tom Faber

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## December Christmas Banquet Meeting

by Keith Burns, AAC President

The December meeting of the Atlanta Astronomy Club will be held on **Saturday** December 13th. The program this month will be Dinner and a Movie (PowerPoint). The location is Bradley Observatory on the Agnes Scott College Campus.

### The Dinner

This is our annual Christmas banquet. Bradley Observatory will be open at 5:30PM. We ask that you arrive between 6:00 and 6:30PM. Food will be served starting at 6:30 and run until 8PM. This is a potluck type dinner. The club will provide Ham and Turkey. We ask that people bring a side dish that serves at least ten people. This may include your favorite family recipe, dessert, vegetable, or fruit dish. Please contact Sharon Carruthers for information on the food and what to bring (See Sharon's article on this page). I am looking for volunteers to come at 5:30PM and help set up tables and chairs. Any help you can provide will be greatly appreciated.

### The Program

After dinner, there will be a few announcements followed by the viewing of Part Two of my PowerPoint program "*The Wonders of The Giants.*" This will take place in the Bradley planetarium. The show will start between 8PM and 8:30PM and run for 48 minutes. Here's a little background on this month's Power Point program -



We depart the bonds of Earth and cruise the skies of Saturn and visit the wonders of its moons. This will take place with a series of pictures and accompanying music.

## Directions to Bradley and Parking

From I-20: Take Candler road exit north past Memorial Dr., past Kirk road (light) look for E. Dougherty St. (a one way street) on your left (at the Agnes Scott College sign). Turn left, and park directed below.  
From I-285 (east side of city): Take the Ponce de Leon exit.



Go west on Ponce de Leon toward Decatur. Stay on Ponce until Church Street. Turn left on Church Street. The second light will be Trinity. Take a left on Trinity, cross the railroad tracks (College Ave.), and you will be on Candler Road southbound. As you just pass the main part of campus, look for E. Dougherty St. on your right. Turn onto E. Dougherty and park as directed below.

From downtown: Take Ponce de Leon east until Church Street. Turn right on Church Street. The second light will be Trinity. Take a left on Trinity, cross the railroad tracks (College Ave.), and you will be on Candler Rd. southbound. As you just pass the main part of campus, look for E.

*Continued on next page*

## The December Banquet Potluck

Hi Folks,

Once again, it is time to plan for our Yummiest Meeting of the year – our Holiday Potluck! It will be on Saturday December 13th, 2008 at Bradley Observatory, Agnes Scott College. We will start serving at 6:30PM and run until 8PM, followed by the program in the Planetarium.

The AAC will provide turkey and ham, coffee & drinks. We ask for contributions of the sides and desserts. Family & ethnic favorites are especially welcome. PLEASE tell me what dish you plan to bring (Email me at [Treasurer@AtlantaAstronomy.org](mailto:Treasurer@AtlantaAstronomy.org) or you can call me at 770-941-4640) so I can keep track of what is being brought and what we still need. I will update the list on the AAC ListServ regularly. Suggested dishes are (but don't let my suggestions limit you...):

APPETIZERS: Chips & dip, Pretzels, Chex mix, Sausage Rolls, Cheese & Crackers, Deviled Eggs, Veggie Tray, etc.

SIDES: Buns & Rolls, Relish Tray.

VEGGIE SIDES: Potatoes, Sweet Potatoes, Green Bean Casserole, Corn, Peas, Carrots, Tossed Salad, Jelled salad, Coleslaw, etc.

DESSERTS: Cakes, Pies, Cookies, Puddings, etc.

Thank You,

Sharon Carruthers - Treasurer AAC

Dougherty St. on your right. Turn onto E. Dougherty and park as directed below.

## Parking

Handicapped-accessible parking is available adjacent to the observatory. Other visitors are requested to use campus parking lots accessible via E. Dougherty St. and South McDonough St. There is on-street parking along E. Dougherty, or in the parking lot to your right past the black construction fence. Additional parking is available off of S. McDonough St. Follow Dougherty to the four-way stop, either turn left and take your first left into the parking lot, or turn right and park in the large parking deck on the left. The sidewalk to Bradley Observatory is found between the Woodruff Physical Activities Building and Gellerstedt Field, to the left (south) side of E. Dougherty.

## Upcoming Meetings

January 16th - Dr Jim Sowell, of Georgia Tech will present a talk about the electronic version of the E. E. Barnard Picture Atlas of the Milky Way. Georgia Tech hosts the actual atlas on their website.

February 6th - Dr Susanna L. Widicus-Weaver of Emory University will talk on, "Testing the limits of Astrochemistry."

March 14th - Speaker and Topic TBA.

April 3rd -100 Hours of Astronomy program to take place at Bradley Observatory. Joint AAC and Agnes Scott College special night and program.

## November General Meeting Minutes

by Richard Jakiel, AAC Recording Secretary

Meeting photos by Tom Faber

The November 14th General Meeting of the AAC started at ~ 8:10 PM, with president Keith Burns presiding (Top Photo). Keith quickly covered the main aspects of the business portion of the meeting, focusing mostly on upcoming events. One of the main topics of discussion was the upcoming Christmas Dinner/Meeting at Agnes Scott on Saturday, December 13th. More details on this will be posted in next month's *Focal Point* and in various AAC-related Yahoo Groups. Other business topics include GASP events and the future speaker schedule.

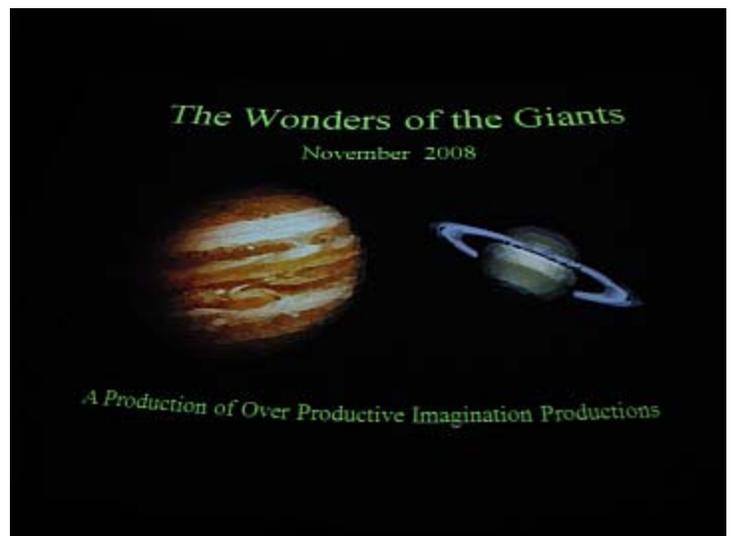
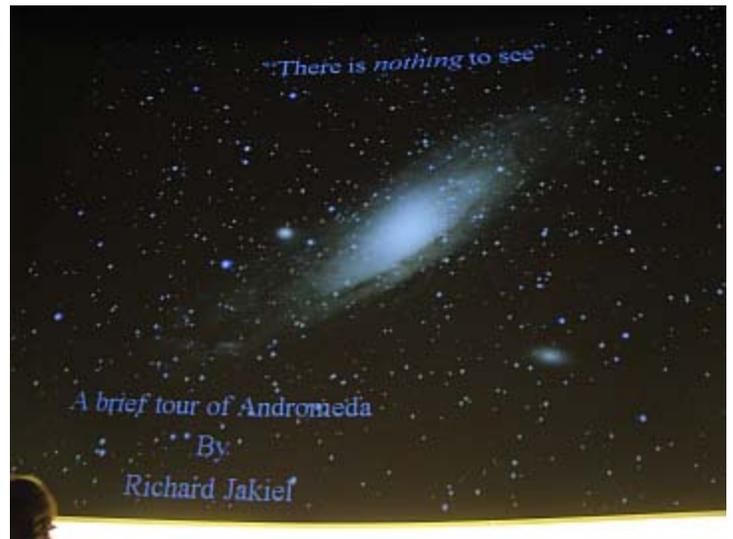
Observing Chair Dave Lumpkin discussed some the upcoming dark sky and new member events. On Saturday December 27th, there will be a joint DSO with the AAC and the CEWC Chapter. The CEWC meeting (and buffet!) will run from 3 to 6 PM, with observing on the main field afterward. There is no camping and facilities on this field, so make allowances.

This month's edition of *There's Nothing to See* was conducted by your "humble" AAC recording secretary - Rich "Curly" Jakiel. This month's focus was on the constellation of Andromeda and a few of the more notable deep-sky objects (Middle Photo). Images, background and star-hopping information of the Blue Snowball (NGC 7662), the Ghost of Mirach (NGC 404), the Andromeda Galaxy and bright satellites (M32, M110) and the beautiful multiple star Gamma Andromedae (Almach) were provided in this short presentation.

The main presentation was Part One of Keith Burn's *The Wonders of the Giants*, the massive planet Jupiter (Bottom Photo). Hundreds of slides and images were set to music detailing the history of observation, exploration by spacecraft (Pioneer, Voyager and Galileo) and observation from Earth (amateur images, Keck and Hubble). Many of the high resolution images, in particular those of the spacecraft are rarely seen in more general books of the planets. Next month is Part 2 which will deal with the ringed giant, Saturn.

## The Next AAC Board Meeting

The next Board Meeting of the Atlanta Astronomy Club is scheduled for Sunday, January 18th. Time and place will be announced later.



## Charlie Elliott Chapter Meeting Minutes

by Theo Ramakers, CE Director

(Minutes have been edited for space constraints.)

The meeting was called to order by Chapter director Theo Ramakers at 4:05pm. 17 members and guests attended the meeting and 62 persons took advantage of the observation field since the last meeting. Following a welcome to all attendees, a request to change the April meeting date was discussed. The request was made to avoid a conflict with the annual star party of the Flint River Astronomy Club. The request to change our meeting date was approved to the weekend preceding the old date. We now need to check with CEWMA if they will allow the change.

Following a short introduction of Paul Tankersley by Theo, Paul started his presentation about Narrow Band Imaging in the City (Photo below). Paul's extensive presentation discussed this topic in much detail. He explained why he got interested in this, the evaluations he went through, the challenges one has to overcome when imaging from light polluted areas, the equipment he needed for this and finally the process when doing this the right way. You can review Paul's presentation on our website.

Jon Wood did his continuation of the Observing 101. In addition to reviewing the night sky for November, Jon reviewed the discussion he had with the management of Charlie Elliott about the hunting season and the fact that the observing field is not located in the Safety Zone. We are sharing the observing field with everyone. It was explained that the wildlife is very active around sunset and sunrise. This means to be very cautious around these times of the day during hunting season, and it would be better to come a little later than earlier. We have added the hunting season information on our website. Jon also discussed a new focusing tool he is using: the Bahtinov mask. This focus mask is based on the principle of moving diffraction spikes. His presentation included screen captures of in and out of focus objects and gave a great overview of the ease of operation.

The last item of the agenda was Theo's Current Events in Astronomy and Space Exploration. Theo discussed the advancement of some foreign countries in space exploration, notably China with the first manned space flight and India with the launch of their first mission to the moon, and gave an overview of recent and current outreach events. A review of recent images made by chapter members was followed by a status review and images of Odessey, Phoenix, and Cassini. An overview and movie about of the Indian mission Chandrayaan to the moon completed this month's Current Events. A link to this presentation can be found on the Events page of the website.

After the meeting it was out to the observing field, where several additional observers joined and some students and parents from George Walton High took the opportunity to see some nice sky objects.



Photo by Theo Ramakers

## Charlie Elliott Future Meetings

The next meeting is on Dec. 27. For meeting updates and other information please check the CEastronomy website: <http://www.CEastronomy.org>

The Meeting dates for the Charlie Elliott Chapter have now been set for 2009. All meetings are on Saturdays: Jan 24, Feb 21, Mar 28, Apr 25, 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. The Events Calendar on the ceastronomy.org website has been updated to reflect these meeting dates.

Thanks and Clear Skies, Theo Ramakers.

## 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 millenia. 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.

### Fall 2008

December 12 - Chris De Pree (Agnes Scott College) - "Tycho Brahe and Uraniborg"

### Spring 2009

February 13 - Megan Drinkwater (Agnes Scott College) - "Greeks, Romans, and the Stars"

March 20 - W. A. Calder Spring Equinox Concert & Open House

April 10 - "100 Hours of Astronomy" Celebration

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

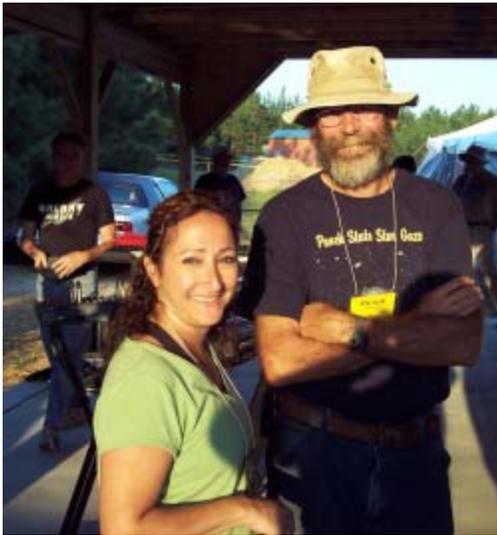


## The 2008 Peach State Star Gaze Photo Gallery - Part 2

Photos by Tom Faber unless noted

For the second year the Peach State Star Gaze was held at the Deerlick Astronomy Village near Sharon GA. This year's Peach State ran a whole week from September 28 to October 5th. A fascinating line-up of talks began on Wednesday. Speakers included Bill Keel, Don Parker, Charlie Warren, and Ron Buta. Several vendors set up shop on the field to display and sell their wares. On Friday evening we enjoyed cake and ice cream - celebrating the 15th anniversary of the PSSG, and then had a great musical show under the stars by Jonn Serrie. Saturday afternoon brought the door prize drawings with many of the people present winning a wide range of prizes. Congratulations to the PSSG Chairman Peter Macumber, Co-chair Joanne Cirincione, Sharon Carruthers, the PSSG staff, and volunteers for organizing another great Peach State Star Gaze! Many thanks to the PSSG staff that also included Keith Burns, Tom Faber, Kat Sarbell, John and Holly Ritger, Tom and Lynn Crowley, Frank Marchese, and Mark Banks for running a great star party! Part 2 of the *Focal Point's* photo gallery of the 2008 Peach State Star Gaze begins on the next page.

## Speakers & Vendors



PSSG Chairman Peter Macumber and Co-chair Joanne Cirincione at the Friday evening cake & ice cream party. Photo by an unknown person using Joanne's camera.

Charlie Warren presents a talk entitled "Eight Wonders of the Universe."  
Photo by Frank Marchese.



Jim Fly's Catseye and Catsperch products were on display.



Procyon Systems had many products for sale (above) and also set up a tent observatory dome (left) with a telescope inside.



Dr. Bill Keel presented two talks on two days - One about the Galaxy Zoo project and the discovery of "Hanny's Voorwerp," and the other talk about pre-Hubble space based astronomy missions.



Dr. Ron Buta (right) also presented two talks on two days: "Rendezvous with Birr Castle" and "Astronomy and the Coal Age of Alabama."



Don Parker (below) gave a fun talk on "Amateur Contributions to Planetary Astronomy."



Astro Gizmos had a large selection of products for sale. Photo by Frank Marchese.



Jonn Serrie (below) gave a great music and light show under the stars in the pavilion Friday evening.



Dan Llewellyn (right) gives a talk on imaging. Photo by Frank Marchese.





## Come on down! You're the next winner...

On Saturday afternoon, the PSSG staff drew names from the guest list for door prizes. Many vendors and volunteers were very generous in contributing items for door prizes. A mind-boggling array of gifts was available, including simple items like red flashlights, T-shirts, caps, 12 volt hairdryers, and astronomy handbooks, to astrophotography prints, a laser pointer, eyepieces, and telescopes. These lucky people are just a few of the many happy winners of the great door prizes given away at the Peach State Star Gaze!

All photos on this page by Frank Marchese. *Continued on next page*





Packing up Sunday morning. The End of the PSSG 2008.

## Moon, Venus, & Jupiter

by Tom Faber

I took this photo (and several others) during an unexpected break in the clouds at 6:07PM on Nov. 30th. Camera - Cannon PowerShot SX100IS; Exposure 3.2s, f/4.0, ISO 100, optical zoom factor about 5X. The moon shows the "old moon in the new moon's arms."



## New Horizons - The PI's Perspective

by Alan Stern - Credit NASA/JHU-APL

Nine Mementos Headed to the Ninth Planet - October 23, 2008

(PI's note: For this installment of the PI Perspective, I wanted to share with you my remarks from a ceremony on October 17, during which we "inducted" the New Horizons model into the Smithsonian National Air and Space Museum's Udvar-Hazy Center, and celebrated the mission's accomplishments since launch. It was also the first time we revealed publicly the full set of commemorative items on New Horizons. - Alan Stern)

Thank you. It's wonderful to be here tonight. And it's amazing to think that New Horizons itself is more than a billion miles off and happily speeding another million more miles toward the frontier every day.



I don't know how many of you know this, but New Horizons is now farther from Earth than all but two operating spacecraft - NASA's Voyagers 1 and 2, which pioneered the deep outer solar system, but left planet Pluto and the Kuiper Belt unexplored. And you might not know this either - the U.S. did not launch a mission to reconnoiter a new planet from Voyager's launch in 1977 until we launched in 2006. And when we crossed the orbit of Saturn this summer, it had been 27 years since the last spacecraft to venture that far (Voyager 2) passed Saturn. Well, our little spacecraft is putting NASA and the U.S. back in the pioneering exploration business in the 21st century.

This day has been a long time coming - we're now 1,002 days into our flight, we've been a project team now for almost eight years, and it has been over 19 years since a few of us first discussed doing a Pluto mission with NASA.

I recall, just as we were getting the first Pluto mission studies done, a 1990 article about an early Pluto mission concept called Pluto 350, which was planned - as we are - for arrival in 2015. And I also recall my comment in that article about my little 2-year-old daughter, Sarah, and how far off 2015 would be, and how old she would be - 28 that year, and how I could hardly imagine such a far off future! Well, it's not so far off now - Sarah turned 21 today, Oct. 17, 2008. By that measure, 2015 seems almost right around the corner!

You know, thousands of Americans helped design, build, test and launch New Horizons. Many of you here tonight are among them. Thank you all, from the bottom of my proud heart, and thank you on behalf of the New Horizons science team, the planetary science community of this country, and for all the Americans and citizens of the world who you inspired with the audacity to build a spaceship to open new frontiers, to turn heads, and - just think about this - to fly among the stars and literally outlive the Earth itself.

Now it is my privilege to announce something special about New Horizons - something we said we would save for a special occasion. Today we're announcing the nine mementos that are flying with New Horizons to Pluto and the Kuiper Belt frontier. Why nine mementos? I bet you can guess. Here's the list: 1. A portion of Pluto discoverer Clyde Tombaugh's ashes and an inscription, 2. The "Send Your Name to Pluto" CD-ROM with more than 434,000 names of people who wanted to participate in this great journey of exploration, 3. A CD-ROM with project personnel pictures, 4. A Florida state quarter, for the state New Horizons was launched from, 5. A Maryland state quarter, for the state New Horizons was built in, 6. A cutout piece of the historic SpaceShip One and an inscription, 7. U.S. Flag 1, 8. U.S. Flag 2, 9. The 1991 U.S. stamp proclaiming, "Pluto: Not Yet Explored." Finally, I'll close by saying that when we've completed the first reconnaissance of Pluto in summer 2015, we plan to petition the U.S. Postal Service to issue a new stamp for Pluto, maybe something like this:

*Continued on next page*



I knew you would like that! Thank you and good night.

## Georgia Astronomy in State Parks

The following GASP event are currently scheduled:

**March 21** - Unicoi 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 third Friday of each month at Emory University's White Hall or occasionally at other locations or times. Membership is open to all. 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](mailto: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:** Position Open - [programs@atlantaastronomy.org](mailto:programs@atlantaastronomy.org)

**Observing Chair:** Dave Lumpkin [observing@atlantaastronomy.org](mailto:observing@atlantaastronomy.org)

**Corresponding Secretary:** Tom Faber 770-642-4865  
[focalpoint@atlantaastronomy.org](mailto:focalpoint@atlantaastronomy.org)

**Treasurer:** Sharon Carruthers [Treasurer@AtlantaAstronomy.org](mailto:Treasurer@AtlantaAstronomy.org)

**Recording Secretary:** Rich Jakiel  
[secretary@atlantaastronomy.org](mailto:secretary@atlantaastronomy.org)

**Board Chair:** Don Hall - [donrhall@bellsouth.net](mailto:donrhall@bellsouth.net)

**Board:** Mark Banks - Contact Info TBA

**Board:** William Brannet - Contact Info TBA

**Board:** Position Open - Contact Keith Burns if you would like to volunteer.

**Board:** Larry Wallace - 770-888-3259 [Larry@Wallace-Eng.com](mailto:Larry@Wallace-Eng.com)

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

**Elliott Ch. Director:** Theo Ramakers 770-464-3777  
[ramakers@bellsouth.net](mailto:ramakers@bellsouth.net)

**Elliott Observing Supervisor:** Jonathan Wood 404-374-8750  
[observing@ceastronomy.org](mailto:observing@ceastronomy.org)

**Elliott Recording Secretary:** Ken Poshedly 678-516-1366  
[poshedly@bellsouth.net](mailto:poshedly@bellsouth.net)

**Elliott Coordinator:** Alesia Rast [Alesia\\_Rast@mail.dnr.state.ga.us](mailto:Alesia_Rast@mail.dnr.state.ga.us)

**Elliott Webmaster:** Larry Owens 678-234-5399  
[webmaster@CEastronomy.org](mailto:webmaster@CEastronomy.org)

**The Telescope Workshop:** Dan Llewellyn 404-735-9661 or 404-633-7562 [zoser@mindspring.com](mailto:zoser@mindspring.com)

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

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

**PSSG Chairman:** Peter Macumber [pmacumber@nightsky.org](mailto:pmacumber@nightsky.org)

**Co-Chair:** Joanne Cirincione [starrynights@AtlantaAstronomy.org](mailto:starrynights@AtlantaAstronomy.org)

**Sidewalk Astronomy:** Brad Isley  
[sidewalkastronomy@atlantaastronomy.com](mailto:sidewalkastronomy@atlantaastronomy.com)

**Woodruff Observ. Coordinator:** Sharon Carruthers  
[Treasurer@AtlantaAstronomy.org](mailto:Treasurer@AtlantaAstronomy.org)

**Webmaster Atlanta Astronomy:** Peter Macumber 770-941-4640  
[pmacumber@nightsky.org](mailto:pmacumber@nightsky.org)

## Directions to White Hall at Emory

Our meetings are generally held in a classroom in White Hall. To get to White Hall, turn onto Dowman Drive from North Decatur Road at the five way intersection (across from Everybody's Pizza). White Hall is located across from the new Science & Math building. Parking is available along Dowman Drive on both sides of the road. **The parking lot on the left behind the Admissions Building is closed.** Additional parking is available in two parking decks near White Hall. For maps to the decks see <http://map.emory.edu>. For more detailed directions to Emory University, visit [www.atlantaastronomy.org](http://www.atlantaastronomy.org) or go to the Emory web site.

## Calendar by Tom Faber (Times EST unless noted)

December 1st, Monday: Moon, Venus, & Jupiter form triangle.  
December 5th, Friday: Moon First Quarter. Mars-Sun Conjunction.  
December 7th, Sunday: Earliest Sunset (~5:27 PM at Atlanta).  
December 12th, Friday: Full Moon. Bradley Observatory Open House, 8PM. See pg 3 for details.  
December 13th, Saturday: **AAC Christmas Potluck Dinner and Program at Bradley Observatory, Agnes Scott College - Time TBA.**  
December 14th, Sunday: Geminid Meteors.  
December 19th, Friday: **Focal Point Deadline.** Moon Last Quarter.  
December 21st, Sunday: Solstice at 7:04AM.  
December 22nd, Monday: Ursid Meteors.  
December 27th, Saturday: **DSO at Charlie Elliott - contact Dave Lumpkin for details. CEC Meeting - See pg 3 for details.** New Moon.  
December 28th, Sunday: Thin Crescent Moon below Mercury.  
December 29th, Monday: Moon near Mercury and Jupiter.  
December 30th, Tuesday: Mercury 1.3° from Jupiter.  
December 31st, Wednesday: Moon near Venus.  
January 1st, Thursday: Moon above Venus.  
January 2nd, Friday: Quadrantid Meteors.  
January 4th, Sunday: Latest Sunrise (~7:42 AM EST at Atlanta). Moon First Quarter. Mercury Greatest Elongation East.  
January 10th, Saturday: Full Moon.  
January 14th, Wednesday: Venus at Greatest Elongation East.  
January 16th, Friday: **AAC Meeting at White Hall, 8PM, Emory University.**  
January 17th, Saturday: Moon Last Quarter.  
January 18th, Sunday: **AAC Board Meeting - Time & Place TBA.**  
January 20th, Tuesday: Mercury Inferior Conjunction.  
January 22nd, Thursday: Venus 1.5° from Uranus.

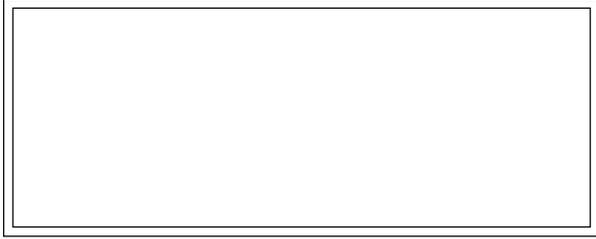
## Atlanta Astronomy Club Listserv

Subscribe to the Atlanta Astronomy Club Mailing List: The name of the list is: AstroAtlanta. The address for messages is: [AstroAtlanta@yahoogroups.com](mailto:AstroAtlanta@yahoogroups.com) . To add a subscription, send a message to: [AstroAtlanta-subscribe@yahoogroups.com](mailto: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 related to Tom Faber at [focalpoint@atlantaastro.org](mailto:focalpoint@atlantaastro.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 and including the deadline date. **The January deadline is Friday, December 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:

FROM: Tom Faber  
2206 Tretridge Parkway  
Alpharetta, GA 30022

Atlanta Astronomy Club

P.O. Box 76155

Atlanta, GA 30358-1155

[www.atlantaastro.org](http://www.atlantaastro.org)