

# The Focal Point

Vol. 22 No. 8

The Atlanta Astronomy Club  
Established 1947  
January 2010

Editor: Tom Faber

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## January General Meeting

by Keith Burns, AAC President

### The Program

The next general membership meeting of the Atlanta Astronomy Club will be held on Friday, January 22, at White Hall on the Emory University Campus in Room 207. The meeting starts at 8PM. Refreshments and snacks will be served starting around 7:30PM. Directions to White Hall are at the bottom of this article. The meeting starts out with the monthly announcements Power Point program that will run before the meeting starts and at the beginning of the meeting. After that, we move on to our featured speaker of the night - Dr. Richard Schmude.

### Our Speaker

Dr. Richard Schmude Jr. will present a talk about Mars and what is currently happening on the planet. Richard will talk about recent observations and measurements of the planet. He will also talk about features you should look for when observing Mars. Yes, you too can do some serious science! Dr. Richard Schmude's talks are always entertaining and educational. With Mars' opposition on the 29th, this is a very timely topic.

Dr. Schmude is a professor of physics and astronomy at Gordon College. He is the Remote Planets Section Coordinator, the Jupiter Coordinator,



and board member of ALPO, as well as Secretary of the Astronomical League. He is also an active member of the American Association of Variable Star Observers, and the Flint River and Atlanta Astronomy Clubs. Raised in Texas, he received his Ph.D. in Physical Chemistry from Texas A&M University in 1994. Since then, Dr. Schmude has been teaching astronomy, physics and chemistry at Gordon College in Barnesville, GA. His primary areas of study include the solar system, variable stars and planetary nebulae.



*Mars by Dan Llewellyn from Decatur, GA. Image made 12/22/09 at 08:56UT, size 11.8 arcsec, CM=155, Seeing 6 of 10, scope C-14 Zeiss 2X with 2 spacers.*

### Directions to White Hall and Parking

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](http://www.emory.edu)

### Upcoming AAC Meetings:

Our new program chairman is working on speakers for the year 2010. As soon as he has information, it will be passed on to you. Meeting dates are the following: Feb 26, March 26, April 23, May 21, and June 25.

## December Christmas Potluck/Meeting

Photos by Tom Faber

The AAC held its annual Christmas potluck dinner and meeting Saturday December 5th at the Emory Math and Science Building. The dinner was held in the atrium with the club providing the meat dishes and the attendees bringing lots of yummy side dishes and desserts. While we enjoyed dinner Jonn Serrie provided a wonderful musical backdrop for the evening. After the dinner and music we moved to the planetarium to hear a very interesting and informative talk about meteorites by our guest speaker Dave Ghesling titled "Caution: FALLING ROCKS." We all had a great time! Thanks to our hosts Dr. Richard Williamon and Alex Langoussis of the Department of Physics, and Emory University for providing the building for the event. Here are some photos of the evening's happenings.



*Jonn's equipment and the dinner tables are set up.*



*Anne Serrie had a large selection of CDs of Jonn's music for sale including his latest album "Thousand Star".*

## The Next AAC Board Meeting

by Keith Burns, AAC President

The next Board Meeting of the Atlanta Astronomy Club is scheduled for Sunday, January 31st from 4PM to 6PM at Emory University in the Math and Science building room N301. Contact Keith Burns or Board Chair Don Hall for more information about the meeting agenda.



*Jonn's begins his performance.*



*The line begins to form for the chow!*

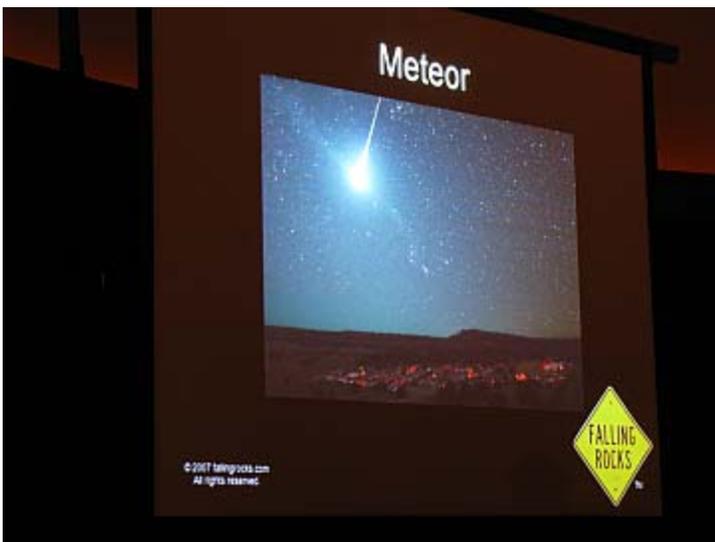


*Attendees enjoying the dinner and Jonn's music.*

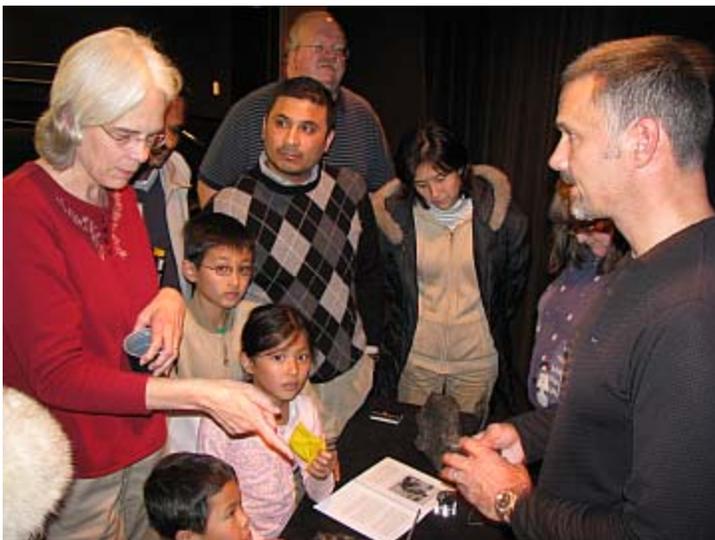
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*After dinner we moved to the planetarium for Dave's talk.*



*One of Dave's slides shows a brilliant meteor over a star party. Put a red filter on that light!!*



*After his talk Dave answered many questions about the meteorites he brought to show, including samples of lunar and Martian meteorites.*



*AAC President Keith Burns (left) and Dave Gheesling. Dave holds a large meteorite and Keith holds the back of a mailbox that was struck by a meteorite in 1984 at Claxton, GA.*

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## CE Chapter November Meeting Minutes

by Ken Poshedly, CE Recording Secretary

The meeting was held November 16 at the Charlie Elliott Wildlife Visitor Center and called to order at 4:15 p.m. by CE Chapter Director Theo Ramakers. The final meeting attendance was 23 members and guests; poor weather prohibited sky observing after the meeting.

Following welcoming remarks by Theo, our featured speaker, Carlos Flores, provided a PowerPoint presentation on "Steward Mirror Lab & Kitt Peak, Arizona" including a movie about the mirror lab. The PowerPoint presentation is available for downloading on the CE web site.

Afterwards and filling in for CE Observing Director Jon Wood was Steve Biegler whose "Observing 101" segment included his always striking renditions of planetary positions, meteor showers and cometary phenomena for the next several weeks. Steve's presentation can also be seen on the CE web site. Next was Theo's "Current Events in Astronomy & Space Exploration" presentation which is also available on the web site.

The meeting was adjourned at approximately 7:30 p.m. About 45-50 individuals including several Boy Scout troops from Lawrenceville and Newton County school astronomy and physics students attended the after-meeting observing session. Below and on the next page are some photos of the observing field activities and more are on the CE web site. Photos by Stephen Ramsden.



*Continued on next page*



## Next CE Chapter Meeting

Join us for our next meeting on January 16 at 3:00 p.m. For the meeting's feature presentation we will be watching a recorded presentation given by Professor William Shea, Galileo's Chair from the University of Padua, as he recently gave a lecture for the Royal Astronomical Society at Burlington House called "The New World of Galileo" to mark the International Year of Astronomy. This presentation gives some nice insight of who the real Galileo was, and sheds some details on the politics of those days.

The meeting will also include the "Observing 101" and "Current Events in Astronomy and Space Exploration" programs. There will be observing on the field afterwards, weather permitting. Everyone is welcome!

Future meeting dates are: Feb 13, Mar 13, Apr 17, May 15, Jun 12, Jul 10.

## Bradley Observatory Open House Series 2009-2010

The Galileo Project: Revealing Hidden Worlds

During the 2009-2010 academic year, the 400th anniversary of Galileo's first astronomical use of his telescope, Agnes Scott College is hosting "Project Galileo: Revealing Hidden Worlds". This year-long series of events will explore Galileo's complex life and innovative work, and it will help us engage the challenges we all face when pushing the boundaries of exploration in the quest for knowledge. Lectures focus on Galileo's contributions to astronomy and to changing the way we see the universe. Programs begin at 8PM and will be followed by a planetarium show and observing with the Beck telescope (weather permitting).



**February 12** - Brother Guy Consolmagno, Vatican Observatory

**March 19** - Spring Equinox Concert and Open House

**April 9** - Tina Pippin, professor of religion, Agnes Scott College: "Galileo and the Church"

**May 7** - Jeffrey Young, Georgia State University Honors Program: "Galileo and the Birth of the Modern"

For more info see: <http://www.agnesscott.edu/academics/bradleyobservatory/open-house-series.aspx>

## Meteorite Association of Georgia

by Dave Gheesling

Our next meeting will be Sunday, January 10, at FEI Group's corporate offices in Marietta starting at 1:00 pm. The address is 811 Livingston Court; Marietta 30067. I am thrilled to also announce that my good friend and veteran meteorite hunter Jack Schrader, from Sierra Vista, Arizona, will be the featured speaker for this meeting!



Schrader (photo left), responsible for 10 cold meteorite finds -- among the scores of kilograms of meteoric material he's recovered all over the planet -- made the recovery of a lifetime this summer near Tucson, Arizona. He became the first American meteorite hunter to triangulate and personally make a cold recovery of the first specimen from a witnessed meteorite fall -- in this case the Whetstone Mountains meteorite. Only one European hunter has

ever accomplished this before, but it took him months to do it and Schrader's recovery happened 44 hours and 58 minutes after the fireball. Just a phenomenal accomplishment, and the story behind it is one you most definitely will not want to miss.

Further, the Whetstone Mountains meteorite is probably the best documented witnessed fall in America's history, and the monograph detailing the account of the fall and recovery mission will be released the week after next. See <http://www.fallingrocks.com/Collections/WhetstoneMountains.htm> for some more information, but there's no use

stealing Jack's thunder beyond that link for now. For more info: [www.meteoriteassociationofgeorgia.org](http://www.meteoriteassociationofgeorgia.org)

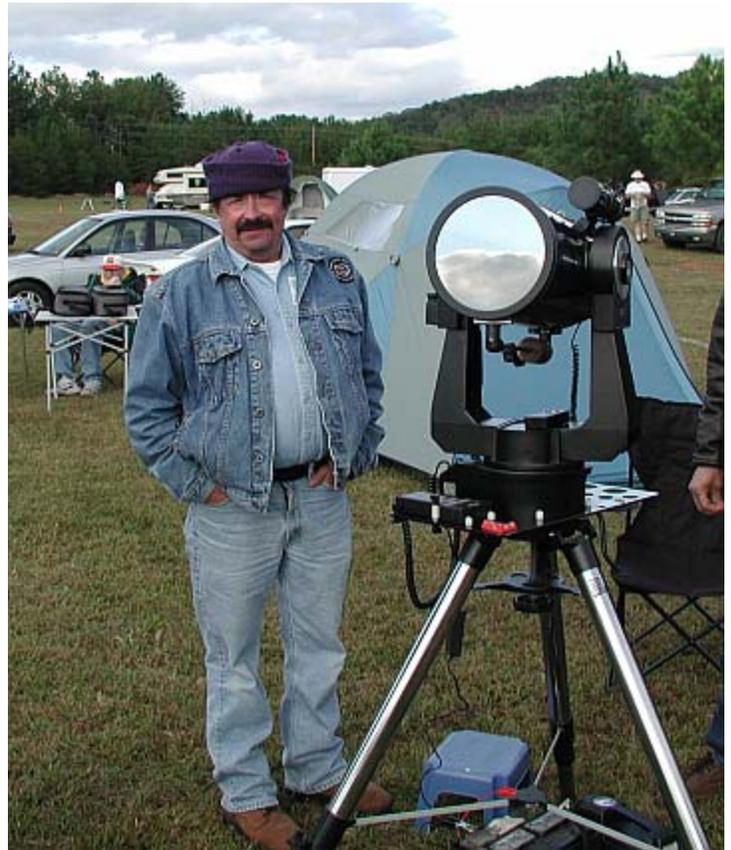


*A security camera caught the Whetstone fireball in the upper right of this image.*

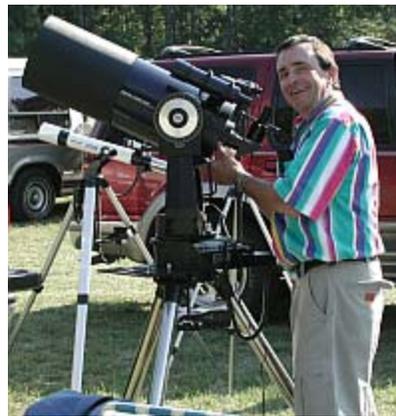
## Remembering Roger Dowiat

Just before Christmas we received the sad news of the passing of club member Roger Dowiat on December 23rd. Roger had been a member of the AAC for many years, attended several Peach State Star Gazes, and hosted a number of Dark Sky observing sessions on his property near Mentone, Alabama, - most recently this past July. Here is his obituary and some photos of Roger at some AAC events. He will be missed...

Roger Stanley Dowiat, age 67, passed away unexpectedly Wednesday after spending a wonderful day with family and friends. Roger grew up in Mentone, attending Moon Lake Elementary and Valley Head High School - there he met a cute younger student, Judy Kay Young, the sister of his best buddy. He liked squirrel and deer hunting with a favorite uncle, Emerson. He liked reading the signs of nature and signs of the sky at night. He and Judy's brother enlisted in the Navy together when Roger was just 17 years old. He saw Italy and Greece in his tour of the Mediterranean, saying years later he couldn't believe his foolish young self had seen the world in three years but never taken a single photo. His ship was sent to the Cuban Missile Crisis, with Roger getting a first-hand sight of the war ships loaded with Russian missiles, dangerously close to America. Returning home from service, he married Judy and had two children. Roger became a career machinist, working in the Fort Payne area until retirement from the Sara Lee Bakery in 2002. Roger was a life-long learner. His lunch breaks at blue-collar jobs would be spent hunched over a correspondence course learning Hebrew, a textbook on geology, or the latest issue of "Sky and Telescope" magazine. Roger loved retirement because it allowed him the proper amount of time for all his many hobbies - a life-long fascination with trains, collecting fossils (petrified dinosaur eggs, prehistoric shark teeth, and trilobites, which were treasures gathered mostly through activity in the Fort Payne Gem and Mineral Club) and staying up all night with his telescope and a classical radio station to study the heavens. In retirement he had time to join the Atlanta Astronomy Club and host "star parties" in Mentone on the old family land. Like-minded amateur astronomers would arrive from all over the region with tents and telescopes and compare knowledge of Jupiter, Mars, and the Milky Way. And while a quick exit from this world would have been his preference, he would have chosen to be taken out by a renegade meteor. Wife Judy's first and enduring impression of Roger was his pretty brown eyes, with a sparkle of mischief that lasted across the years. On Christmas morning, Judy was able to open the last gift and sweet card from Roger, hidden by him until Christmas. Son Stan loved spending time out on the land with his father, where they would work cutting trails, sharing theories on science and current events - Dad was curious about every subject. Daughter Sharon loved going to bookstores with her dad, both excited by the brand new ideas and revelations hidden inside, waiting to be found. She treasures memories from a trip together to the Grand Canyon and Monument Valley, years afterward still trying to comprehend the magnitude, time and scale of creating such a place. He was one of a kind, and is going to be deeply missed. Roger is survived by his wife of 45 years Judy Young Dowiat, mother Eugenia Dowiat, sister Gwen Erikson, son Stan Dowiat, daughter Sharon Dowiat and son-in-law Chris Russell, grandchildren Jade and Kirby Dowiat, step grand-children Jackson and Nathan Russell, and grand-nephew Bleu Stone. In lieu of flowers, friends can make donations to the Moon Lake Community Library in Mentone... or simply spend a few moments in a thoughtful gaze at the nighttime sky.



*Photo above: Roger at a Peach State Star Gaze at Whitewater. Photo by Frank Marchese.*



*Photo left: Roger at the 2001 Peach State Star Gaze at Indian Springs State Park. Photo by Frank Marchese.*

*Photo below: Roger at July 2009 DSO on his property in Mentone, Alabama. Photo by Kat Sarbell.*



## WISE Eye Spies First Glimpse of the Starry Sky

NASA News Release - January 06, 2010

NASA's Wide-field Infrared Survey Explorer, or WISE, has captured its first look at the starry sky that it will soon begin surveying in infrared light.

Launched on Dec. 14, WISE will scan the entire sky for millions of hidden objects, including asteroids, "failed" stars and powerful galaxies. WISE data will serve as navigation charts for other missions, such as NASA's Hubble and Spitzer Space Telescopes, pointing them to the most interesting targets the mission finds.

A new WISE infrared image was taken shortly after the space telescope's cover was removed, exposing the instrument's detectors to starlight for the first time. The picture shows about 3,000 stars in the Carina constellation and can be viewed online at [http://www.nasa.gov/mission\\_pages/WISE/multimedia/wise20100106.html](http://www.nasa.gov/mission_pages/WISE/multimedia/wise20100106.html).



The image covers a patch of sky about three times larger than the full moon, and was presented today at the 215th meeting of the American Astronomical Society in Washington. The patch was selected because it does not contain any unusually bright objects, which could damage instrument detectors if observed for too long. The picture was taken while the spacecraft was staring at a fixed patch of sky and is being used to calibrate the spacecraft's pointing system.

When the WISE survey begins, the spacecraft will scan the sky continuously as it circles the globe, while an internal scan mirror counteracts its motion. This allows WISE to take "freeze-frame" snapshots every 11 seconds, resulting in millions of images of the entire sky.

"Right now, we are busy matching the rate of the scan mirror to the rate of the spacecraft, so we will capture sharp pictures as our telescope sweeps across the sky," said William Irace, the mission's project manager at NASA's Jet Propulsion Laboratory in Pasadena, Calif.

To sense the infrared glow of stars and galaxies, the WISE spacecraft cannot give off any detectable infrared light of its own. This is accomplished by chilling the telescope and detectors to ultra-cold temperatures. The coldest of WISE's detectors will operate at less than 8 Kelvin, or minus 445 degrees Fahrenheit.

The first sky survey will be complete in six months, followed by a second scan of one-half of the sky lasting three months. The mission ends when the frozen hydrogen that keeps the instrument cold evaporates away, an event expected to occur in October 2010.

Preliminary survey images are expected to be released six months later, in April 2011, with the final atlas and catalog coming 11 months later, in March 2012. Selected images will be released to the public beginning in February 2010.

JPL manages WISE for NASA's Science Mission Directorate in Washington. The mission was competitively selected under NASA's Explorers Program, managed by NASA's Goddard Space Flight Center in Greenbelt, Md. The science instrument was built by the Space Dynamics Laboratory in Logan, Utah, and the spacecraft was built by Ball Aerospace & Technologies Corp. in Boulder, Colo. Science operations and data processing take place at the Infrared Processing and Analysis Center at the California Institute of Technology in Pasadena. More information is online at <http://www.nasa.gov/wise> and <http://wise.astro.ucla.edu>.

*This infrared snapshot of a region in the constellation Carina near the Milky Way was taken shortly after NASA's Wide-field Infrared Survey Explorer (WISE) ejected its cover. The "first-light" picture shows thousands of stars and covers an area three times the size of the moon. WISE will take more than a million similar pictures covering the whole sky.*

*The image was captured as the spacecraft stared in a fixed direction, in order to help calibrate its pointing system. The mission's survey will be done while the satellite continuously scans the sky, and an internal scan mirror counteracts the motion to create freeze-frame images. The team is working*

*now to match the motions of the spacecraft and the scan mirror precisely.*

*This eight-second exposure shows infrared light from three of WISE's four wavelength bands: Blue, green and red correspond to 3.4, 4.6, and 12 microns, respectively. Image credit: NASA/JPL-Caltech/UCLA*

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## Jonathan Wood

Just before I was about to publish this issue of the *Focal Point* there was more sad news about another club member. AAC member and Charlie Elliott Chapter Observing Supervisor Jonathan Wood passed away on January 5th. Our thoughts are with his family and friends. More about Jonathan will appear in a future issue of the *Focal Point*.

## The Astronomical League

As a member of the **Atlanta Astronomy Club** you are automatically also a member of the **Astronomical League**, a nation wide affiliation of astronomy clubs. Membership in the AL provides a number of benefits for you. They include:

- \* You will receive *The Reflector*, the AL's quarterly newsletter.
- \* You can use the Book Service, through which you can buy astronomy-related books at a 10% discount.
- \* You can participate in the Astronomical League's Observing Clubs. The Observing Clubs offer encouragement and certificates of accomplishment for demonstrating observing skills with a variety of instruments and objects. These include the Messier Club, Binocular Messier Club, the Herschel 400 Club, the Deep Sky Binocular Club, and many others.

To learn more about the Astronomical League and its benefits for you, visit <http://www.astroleague.org>

## Georgia Astronomy in State Parks

The following GASP events are currently scheduled:

**March 20** - Unicoi State Park.

For more information about these events, contact Keith Burns at 770-427-1475 or [Keith\\_B@bellsouth.net](mailto: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](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](mailto:Keith_B@bellsouth.net)  
**Program Chair:** Rich Jakiel [Programs@atlantaastronomy.org](mailto:Programs@atlantaastronomy.org)  
**Observing Chair:** Daniel Herron [observing@atlantaastronomy.org](mailto:observing@atlantaastronomy.org)  
**Corresponding Secretary:** Tom Faber  
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**Recording Secretary:** Julie Moore [Secretary@atlantaastronomy.org](mailto:Secretary@atlantaastronomy.org)  
**Board Chair:** Don Hall - [donrhall@bellsouth.net](mailto:donrhall@bellsouth.net)  
**Board:** Misty Herron - Contact Info TBA  
**Board:** Theo Ramakers 770-464-3777 [director@ceastronomy.org](mailto:director@ceastronomy.org)  
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**Elliott Coordinator:** Alesia Rast [Alesia\\_Rast@mail.dnr.state.ga.us](mailto: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](mailto:Keith_B@bellsouth.net)  
**Light Trespass:** Open - Contact Keith Burns if you would like to volunteer.  
**PSSG Chairman:** Peter Macumber [pmacumber@nightsky.org](mailto:pmacumber@nightsky.org)  
**PSSG Co-Chair:** Joanne Cirincione  
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**Webmaster Atlanta Astronomy:** Peter Macumber 770-941-4640  
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## 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](http://www.atlantaastronomy.org) or go to the Emory web site.

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

## AAC Events are listed in BOLD

- January 2nd, Saturday: Earth at Perihelion.
- January 3rd, Sunday: Quadrantid Meteors.
- January 4th, Monday: Latest Sunrise in Atlanta: ~7:42 AM.
- January 7th, Thursday: Moon Last Quarter.
- January 11th, Monday: Venus at Superior Conjunction.
- January 13th, Wednesday: Moon near Mercury.
- January 15th, Friday: New Moon.
- January 16th, Saturday: **DSO at DAV. Charlie Elliott Chapter Meeting.**
- January 21st, Thursday: **Sidewalk Astronomy at Montgomery Elementary School, 6PM.**
- January 22nd, Friday: **AAC Meeting at White Hall, 8PM, Emory University.**
- January 23rd, Saturday: Moon First Quarter.
- January 26th, Tuesday: Mercury at Greatest Elongation West.
- January 29th, Friday: **February Focal Point Deadline.** Mars at Opposition.
- January 30th, Saturday: Full Moon.
- January 31st, Sunday: **AAC BoD Meeting** - See pg 2 for details.
- February 5th, Friday: Moon Last Quarter.
- February 6th, Saturday: **Open House at Villa Rica, 4PM.** - Contact Daniel Herron for details.
- February 13th, Saturday: **Charlie Elliott Chapter Meeting.** New Moon.
- February 14th, Sunday: Moon near Venus & Jupiter.
- February 21st, Sunday: Moon First Quarter.
- February 26th, Friday: **AAC Meeting at White Hall, 8PM, Emory University.**
- February 28th, Sunday: Full Moon.
- March 5th, Friday: **March Focal Point Deadline.**
- March 7th, Sunday: Moon Last Quarter.
- March 11-13th: **Zombie Star Party & Messier Marathon at DAV - Contact Daniel Herron.**

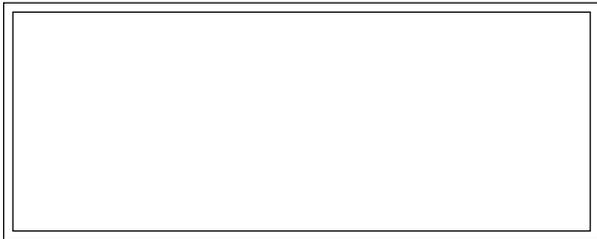
## Atlanta Astronomy Club Listserv

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 Lemmy 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](mailto:focalpoint@atlantaastronomy.org). Please send images separate from articles, not embedded in them. Articles are preferred as plain text files but Word documents or PDFs are okay. You can submit articles anytime up to the deadline. **The deadline for February is Friday, January 29th 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](http://www.atlantaastronomy.org)

