

# The Focal Point

The Atlanta Astronomy Club  
Established 1947  
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Editor: Kat Sarbell

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## July General Membership Meeting

by Nancy Cronin

The July meeting will take place Friday July 16th at White Hall on the Emory University Campus. Please join us for refreshments and socializing from 7:30 to 7:55 PM. The meeting will start promptly at 8:00 PM.

Our guest speaker this month is Dr. Douglas R. Gies, Professor in the Department of Physics and Astronomy at Georgia State University. His subject is a strange and fascinating binary star system called SS433.



This x-ray binary in Aquila is a microquasar, and as such it may teach us how quasars and other galactic nuclei are powered. In an orbital dance of 13 days, a hot swollen star is being consumed by its superdense partner. Spiraling glowing gases are pulled inward only to be blasted out in narrow jets at a quarter of the speed of light. Is this hot, swollen star's companion a superdense neutron star or a black hole? Please join us to hear the latest research on this exotic star system, The Unusual X-Ray Binary System SS433.

Background:

Dr. "Doug" Gies, started his career as an amateur astronomer at a young age in Toronto, Canada. He even convinced his parents to buy him a life membership in the Royal Astronomical Society of Canada. This turned out to be a great move, since he has enjoyed receiving nearly 30 years of their publications, including the excellent annual RASC Observer's Handbook.

He studied at the University of Toronto, graduating in 1985 with a Ph.D in Astronomy. He then spent 4 years as a Postdoctoral Fellow at the University of Texas McDonald Observatory, before moving to Georgia State University and Atlanta in 1988.

Besides his infectious enthusiasm for the stars, Doug is also a musician. In fact, he met his wife Rebecca playing with a group in Austin. He plays the violin; she plays cello. Rumor has it that he is even a member of an Atlanta band that plays Celtic and country-western music. Maybe this is something you musicians in the club can confirm at the after-meeting gathering.

If you would like more information on Dr. Gies' work on the SS433 system, be sure to check out this recent Sky and Telescope article [http://skyandtelescope.com/news/article\\_1143\\_1.asp](http://skyandtelescope.com/news/article_1143_1.asp).

Meeting Location Information:

Turn onto Dowman Drive from North Decatur Road at the five way intersection (across from Everybody's Pizza). White Hall is located on the right across from the new Science & Math building. Parking is available along Dowman Drive on both sides of the road. There is also a gated parking lot on the left behind the Admissions Building. After 6PM there is no fee to park there.

For more detailed directions on how to get to Emory University, visit [www.atlantaastronomy.org](http://www.atlantaastronomy.org).

## June 2004 AAC General Membership Meeting Minutes

Recorded by Brad Isley

Our meeting took place on Friday, June 18th, at Bradley Observatory at Agnes Scott college. There were 64 people in attendance. Nancy Cronin, program and board chair, led the meeting in Chuck Painter's absence. She called on all officers to share news and make announcements. Lenny Abbey made a motion to award lifetime memberships to Ken Posehdly and Tom Buchanan in recognition of Ken's service organizing the Peach State Star Gaze for 10 years and Tom's success in fighting light pollution in Georgia. This motion was unanimously approved by all members present. Mark Banks gave a talk about his volunteer work with sidewalk astronomy and would like to find someone to replace him after his 5 years of service. Keith Burns made a presentation on the new mentoring program. Then our featured speaker, Philip Sacco, presented his program entitled "The Changing Faces of Mythology." After the meeting, many members drove to Athens Pizza House.

## June 2004 AAC Board Meeting Minutes

Recorded by Brad Isley

Our board meeting was held Wednesday, June 2nd, at Fernbank Science Center. Alex Langoussis opened the meeting with a review of last year. We solicited nominations for chairman of the board. Nancy Cronin was elected chairman. The Charlie Elliot Chapter had several officers present. Chuck Painter addressed the group on our goals for the coming year: continue organizing the Peach State Star Gaze, look for new dark sky site for the club, fight light pollution, and make a smooth transition at the Woodruff Boy Scout camp since John Lentini will leaving his volunteer position there. We discussed the dues our club pays to the Astronomical League, and we decided to keep our relationship.

Peter Macumber & Joanne Cirincione talked about the PSSG speakers. Sue and Allen French will not be presenting at the PSSG. However, Eric Honeycutt, Jim McNeill, Tony Armstrong, and Ron Buta will be attending the PSSG. Rich Jakiel may also present at the stargaze. Chris Hetledge might lead an imaging workshop.

We then reviewed the club budget and determined that we were in reasonable financial shape for the coming year. The board agreed to purchase a portable shed for telescope storage at Charlie Elliot. We discussed obtaining grant money for the club and the possibility of someone on the board taking a class on how to obtain grants. Chuck appointed Art Russell to form a committee to make a 5 year plan for club goals. Everyone is welcome to join this committee. Our next meeting will be in August. The location is TBA. Jim Holley presented his training plan to a warm reception. Nancy explained how she would run board meetings in the future. After the meeting, Chris Hetledge took a group photo of the new board, which was published in last month's Focal Point. We then drove to Everybody's Pizza restaurant.

*Right: Clouds in Mars' sky photographed by the Opportunity rover at Endurance Crater on Sol 153. Image JPL/NASA.*

## Charlie Elliot Chapter July Events

by Larry Owens

General meeting open to public.

Time: 5:00-6:00 PM, Saturday July 17th, 2004

Place: Charlie Elliott Visitor's Center classroom. Enter through the left side door nearest the back of the building.

"Astronomy Current Events" - Lecture. Enjoy a presentation of the latest current events in astronomy. Speaker: Debbie Jones.

Time: 6:00-6:30 PM, Saturday July 17th, 2004

Place: Charlie Elliott Visitor's Center classroom. Enter through the left side door nearest the back of the building.

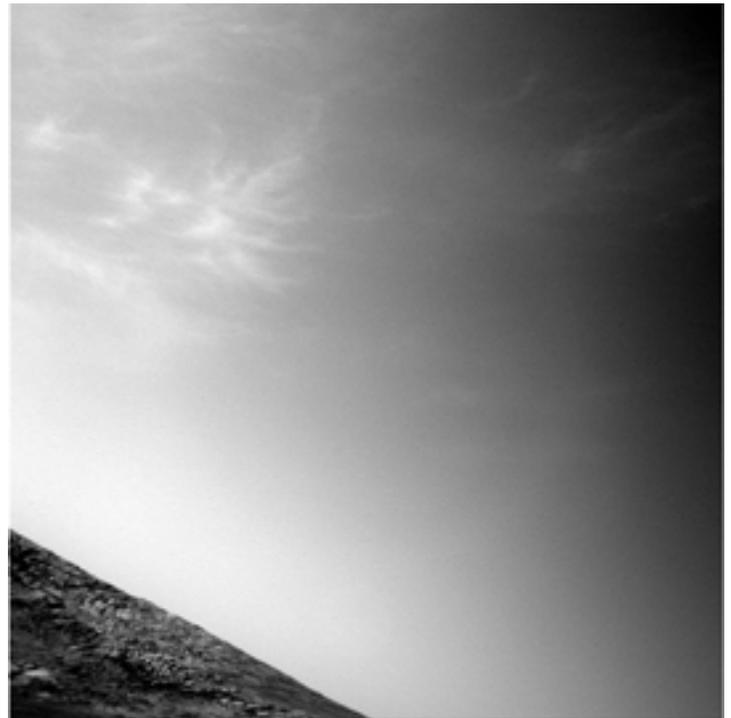
"The Outer Planets" - Lecture. Explore the outer planets with special guest speaker Dr. Richard Schumde, Jr. Here is a sampling of what Dr. Schumde will cover:

"The planet Uranus has continued to grow dimmer during the last few years. It is now 0.07 magnitudes (or 7 percent) dimmer than what it was in 1991. Older brightness measurements dating back to the 1930s suggests that this planet gets brighter and dimmer with its seasons. During the 1990s, Neptune became brighter but during the last 3 or 4 years, that planet's brightness has remained nearly constant. Pluto has undergone some strange brightness changes since the 1950s. Some upcoming events include the eclipses and transits of the moons of Uranus across that planet's disc along with a possible reappearance of cloud belts on Uranus during the next few years."

-Richard Schumde, Jr.

Time: 6:30-7:30 PM, Saturday July 17th, 2004

Place: Charlie Elliott Visitor's Center classroom. Enter through the left side door nearest the back of the building.



## Charlie Elliott Chapter Meeting Minutes

By Clevis Jones, CEC Recording Secretary

NOTE: It came to my attention that CEC member Fred Taylor spent a hot and very humid Saturday the 19th, his own gas money, and much perspiration mowing the Charlie Elliott Wildlife Center (CEWC) observing field with his riding mower. It is such a pleasure to observe from a mowed field. On behalf of everyone, thank you, Fred! Your efforts are much appreciated.

The Chapter Director began the monthly meeting of the Charlie Elliott Chapter (CEC) of the Atlanta Astronomy Club (AAC) to order at 5:00 PM, Saturday, June 19, 2004.

### OPENING REMARKS:

Members of the CEC, members of the AAC, and visitors, totaling twenty-two individuals, attended the meeting. Chapter Director, Larry Owens, opened the meeting, with a welcome to the AAC Deep Space Observers (Jim Holly, AAC Observing Chair, had scheduled the AAC's June Deep Space Observing event to be at the CEWC field this night). Larry then gave us a summary of the June AAC Board of Directors (BOD) meeting and the AAC general meeting.

### BUSINESS:

Larry opened for discussion: "What to do about the platform for the 16" and the 6" telescopes?". Ken Moss suggested a sliding shed. Various other types were discussed. Larry and Jim Holly will visit Villa Rica to see the 20" set up and to pick up the Byers mount. Larry will then make some preliminary sketches of the proposed shed to present at the July CEC meeting. It was noted that the Byers mount needs an inverter with variable frequency. Jim Holly pointed out Villa Rica has plans for a drive corrector which may be useful to the CEC – Larry will take a look at those plans. It was suggested that the local power company might be willing to donate power for the telescope shed. Larry Owens will contact the local power company.

Alesia Rast, CEWC Liaison, expressed concern that an electrical transformer on a pole is too much temptation in an area of hunters. In addition, an estimate of the cost of power to the CEWC should be included in the CEC proposal to the CEWC.

Alesia also pointed out that use of the State Department of Natural Resources (DNR) managed wildlife facilities by hunters and fishermen has been in a decline the last several years. Therefore the DNR is looking for alternative passive (non hunting, fishing, or camping) ways to better utilize the Wildlife Management properties – so, the CEC/AAC use of the facilities is looked upon favorably. Thus, it is VERY IMPORTANT to SIGN IN at the MEETINGS and at the OBSERVING FIELD – to give the DNR the data they need.

### MEETING TIMES:

For the rest of the summer the CEC meetings will be at 5 PM to allow time after the meetings to setup telescopes on the observing field without having to drive onto the field in the dark, providing for better SAFETY, easier setup, and no light pollution from car lights. Meeting times for the winter months will be adjusted accordingly.



*Thirty five years ago this month Neil Armstrong and Buzz Aldrin (pictured above) became the first humans to land on the moon July 20, 1969. Reflected in Aldrin's helmet are Armstrong and the Lunar Module. Photo NASA.*

### PROGRAMS:

Next on the agenda was a short report by the CEC Observing Supervisor, Debbie Jones, on the Venus Transit Event that took place the morning of 8 June 2004. In addition she gave a report on what was up in the sky for viewing tonight with naked eye, binoculars, small to medium telescopes, and large aperture telescopes. Jim Holly had momentarily stepped out or he would have been asked for his input. Daniel Herron volunteered to show us his images of the Venus Transit he took from Ohio – to everyone's delight. Steve Kennedy then gave the Current Events report. Larry Owens gave the main program of the evening on Astrophotography.

### OBSERVING SESSION:

After the meeting there were about 10 to 15 telescopes set up on the observing field, most by AAC members attending the AAC's Deep Space Observing event. The CEC officers took some visitors who could not stay late to an alternate observing field to help the visitors concentrate on the viewing, and to lower any chance of car light pollution for the Deep Space Observers. By midnight, the Milky Way was easily visible.

### MEETING DATES AND PROGRAMS:

July Meeting: Saturday, 17 July at 5:00 PM.

- Current Events: Debbie Jones.

- Main Program: "The Other Planets" by Dr. Richard Schude.

August Meeting: Saturday, 21 August at 5:00 PM

- Current Events: TBD

- Main Program: "Mythology" by Philip Sacco (tentative)

## Two Club Members Awarded Life Memberships

by Lenny Abbey

At the June 18 meeting the club voted to award honorary life memberships to two of our members: Tom Buchanan and Ken Poshedly. Throughout its fifty-seven year existence, the club has given honorary life memberships to a select few who have made outstanding and important contributions. Less than ten such memberships have been awarded.

Tom Buchanan's outstanding performance in the fight against light pollution has made him famous throughout the country. In spite of the fact that he is opposed by tight budgets, lethargic governmental bodies and giant corporations funded by seemingly bottomless coffers, Tom has enjoyed a remarkable degree of success. In Cherokee, Fulton and Fannin Counties, he has successfully lobbied for laws prohibiting upward-pointing lights on billboards. He has done the same for the cities of Atlanta, Alpharetta and Roswell. If he lives long enough, we may eventually be able to see the Milky Way again!

Ken Poshedly organized and managed the Peach State Star Gaze for ten years. This popular star party was so well conceived that it became the fastest-growing star party in the country. His hard work has spread our reputation around the world.

When the first PSSG was held, the club had just emerged from two years of near bankruptcy. (Only donations from several anonymous members kept us going.) The PSSG was Ken's personal project, and he generously donated every penny of the profits to the club. The result is that today we are wealthy. We have nearly \$25,000 in the bank! There is no doubt in my mind that except for Ken's hard work and generosity, the club would have collapsed.

These two hard-working members are examples of the kind of selflessness that characterizes our club. They richly deserve the honor that they have received.

## Member Focus: Sidewalk Astronomy

by Mark Banks

I have been the sidewalk astronomy coordinator for approximately the last 5 years. This position involves taking requests from the public and arranging for club members in the area to stage a stargazing event. This usually involves a lot of phone calls, e-mails, and scouting out the location for the event. This also involves dealing with public ignorance of science and astronomy.



The fun part of this involves the excitement of the kids as well as the adults. The never ending Q&A from all visitors. Explaining the difference in astronomy and astrology without insulting people. Defending the budget of NASA and telling people about all the good that has come from the space program. Explaining why knowledge of astronomy and the related sciences and technology is important.

There are also some hazards you have to deal with. Lawn sprinklers set to come on after everyone is there. Flash photos, kids running and falling, cars without headlights, vicious insects, belligerent cops, no restrooms, religious zealots, and school/park employees with a bad attitude. Also you occasionally will be locked out of a building or locked in a parking lot.

Overall, it's lots of fun and very rewarding to be able to open a new door for the next generation. Encouraging them to study astronomy and the related sciences and technology. This is something that they must know for their own futures.

(If you are interested in further volunteer opportunities with sidewalk astronomy, contact Mark at 404-257-2766 or [jmarkbanks@earthlink.net](mailto:jmarkbanks@earthlink.net).)

## "A Secret Place of Creation"

by Dave Riddle

Where do the stars come from? For thousand of years, the inability to provide a detailed explanation to this simple, child-like question has vexed philosophers, stumped teachers, exasperated parents of inquisitive children and sent more than one theologian searching for an answer. If our present-day theories prove to be correct, we have finally discovered the basic answer to this age-old question. But, how did we arrive at this point? The whole story can't be told in such a limited amount of space that I'm allowed here, so I will briefly relate one of the more fascinating episodes of the journey to our present understanding of the matter. It is my sincere wish that you will find the story of interest.

The story has its beginnings in the year 1766 with William Herschel and the start of his grand survey of the Northern hemisphere night sky. In my opinion, William Herschel is the greatest of all amateur astronomers. Not only did he make his own instruments (that far exceeded any in existence at the time) but he used them extensively and developed (frequently wrong) theories to explain what he was seeing. Of course, we shouldn't judge Herschel too harshly as he depended solely upon his keen eyesight and had to make many assumptions about what his telescope was revealing to him. In a classic underestimation, he thought he might discover a few "new" nebulae with his 18.7" reflector. He eventually discovered over 2,500 "novae" (an outdated term used to signify an original discovery of a nebula).

As Herschel gained experience with observing the night sky, he noted the nebulae came in many different forms -- some were "resolvable" with his telescope, meaning that he could see the object was composed of stars that, in a lesser telescope, would appear as a nebulous patch. There is no doubt that Herschel was profoundly influenced by Galileo Galilei's idea that all nebulae were composed of stars and, given a large enough telescope, they would all eventually be resolved. The evening of November 13, 1790 yielded a discovery that would cause Herschel to abandon this idea. While sweeping the constellation of Taurus, he encountered the planetary nebula now known as NGC 1514. This planetary nebula has a particularly bright central star and Herschel correctly guessed the star and the surrounding nebulosity were associated.

*Continued on the next page.*

He creatively invented a "shining fluid" to explain the phenomenon and Galileo's nebula theory was properly thrown into the trash bin due to this observation made on that cold evening in November. The term "planetary nebula" was introduced by Herschel and he sought an explanation for their origins. Being familiar with Isaac Newton's theories of gravity, he would explain these peculiar nebulae as "contracting" bodies in the process of forming stars in their centers. In his mind, Herschel saw an evolutionary scheme to the forms of the nebulae. He proposed that matter would eventually condense by gravitation -- from the enormous diffuse clouds (examples being NGC 7000 (the "North America" nebula) and "Barnard's Loop" -- both of which he imperfectly glimpsed in his telescope) to "nebulous stars" to the unusual forms of the planetary nebulae. Time has proven this theory to be dead wrong -- the central stars of the planetaries are now known to be stars that have shed their mass instead of being in the process of accumulating it. The problem of the planetary nebula would trouble William Herschel for the rest of his days. But, the idea that stars could form from nebulae would be an idea that outlived the great old astronomer. The mystery of the nebulae would haunt astronomers until the spectroscope was developed into an astronomical instrument in the 1860s.

We will now meet William Huggins, a wealthy British amateur and his assistant- wife Margaret Lindsay Murray. Huggins had built a splendid private observatory in South London and, casting about for a useful purpose, he started to investigate the heavens with the aid of spectroscope. I can do no better than to recite the words of Huggins as he recounts the events of a summer evening in 1864:

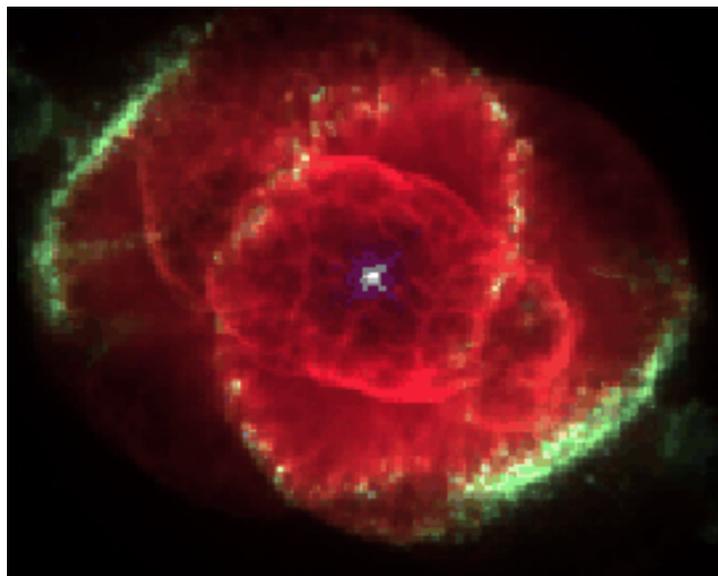
"On the evening of August 29, 1864, I directed the telescope to a planetary nebula in Draco. The reader may be able to picture to himself the feeling of excited suspense, mingled with a degree of awe, with which, after a few moments of hesitation, I put my eye to the spectroscope. Was I not about to look into a secret place of creation?"

This dramatic account, written in 1897, fails to mention that Huggins at first thought his spectroscope was broken when he initially saw a single bright line through his instrument! His "secret place of creation" could easily be interpreted as recalling the long dead Herschel's ideas of stellar evolution. At a stroke, the mystery of nebulae was solved. Huggins would later publish a sketch of the three spectral lines he observed although he could only identify one of the lines with certainty. The other two would not be identified until the year 1928 and, in the meanwhile, astronomers had been forced to "invent" a new element named "nebulium" to explain the presence of the mystery lines. Had Herschel lived to hear of the discovery, he certainly would have been astonished and, perhaps, a little amused. After all, he had to invent a "shining fluid" to explain the existence of the planetary nebulae and the next generation of astronomers seemed to be following his lead by inventing a new element.

The planetary nebula Huggins observed on that summer eve in 1864 is NGC 6543 in Draco -- the celebrated "Cat's Eye" nebula. Well placed at this time of year, NGC 6543 is one of the brightest planetary nebula in the heavens and a pair of binoculars should show it as a star-like object under reasonably dark skies. Users of small telescopes will have no trouble in spotting a tiny disk

displaying an greenish color. Since color perception at low light levels is very subjective, you may see the disk as green, blue-green or blue! Owners of large telescopes may wish to inspect the planetary for hints of red across the disk. Good descriptive notes for this little gem of a planetary are difficult to come by, particularly large aperture, high power views. Take a look and take your time to see what this nebula will show you. You may be a little unsettled to see the "Cat's Eye" gazing back at you.

This August will mark the 140th anniversary of the Huggins observation. Will any be there to "observe" the occasion?



*The famed Cat's Eye Nebula, NGC6543. HST Photo STScI/NASA.*

## Woodruff Boy Scout Training

by John Lentini

Woodruff rent is due! Our club assists with summer camp astronomy at the Woodruff and Bert Adams Scout camps as part of the "rent" we pay to the scouts for the use of the Calder Observatory at Woodruff. This year, the Woodruff staff is offering the Astronomy Merit Badge, and unlike previous years, the Nature Director is committed to providing a real observing experience to the boys. (In years past, the nature Director was not supportive of the program, and had the boys leave the field at 10 pm. That will not happen this year.) The staff requests the presence of one or two AAC astronomers, with or without telescopes, on THURSDAY evenings. If you are interested in volunteering, contact John Lentini at 770-984-0175 or johnlentini@yahoo.com.

The following are the remaining dates for Woodruff: July 15, July 22, and July 29.

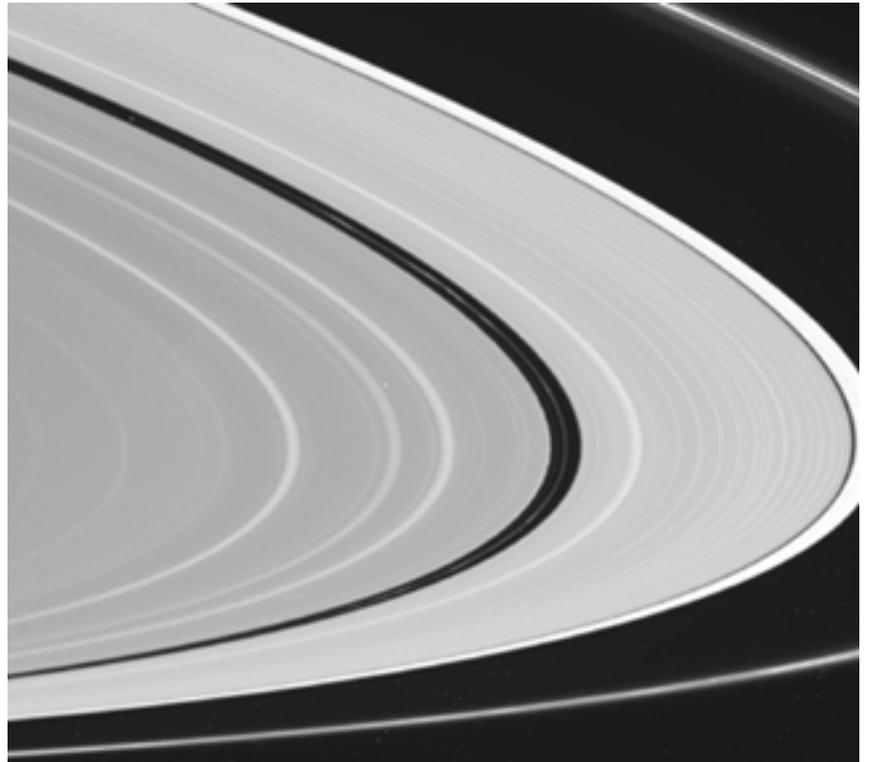
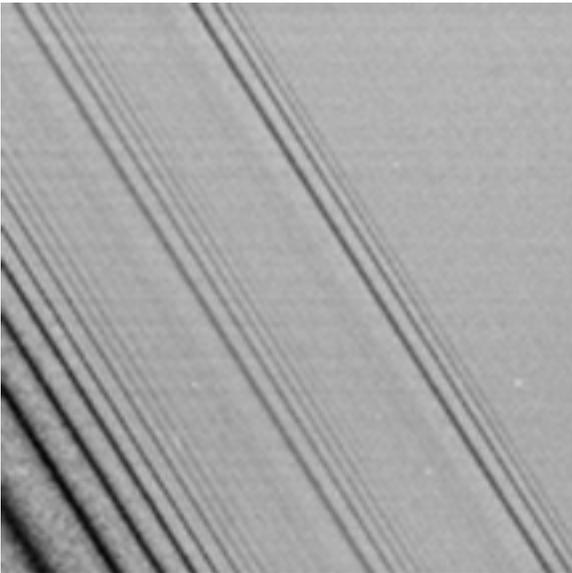
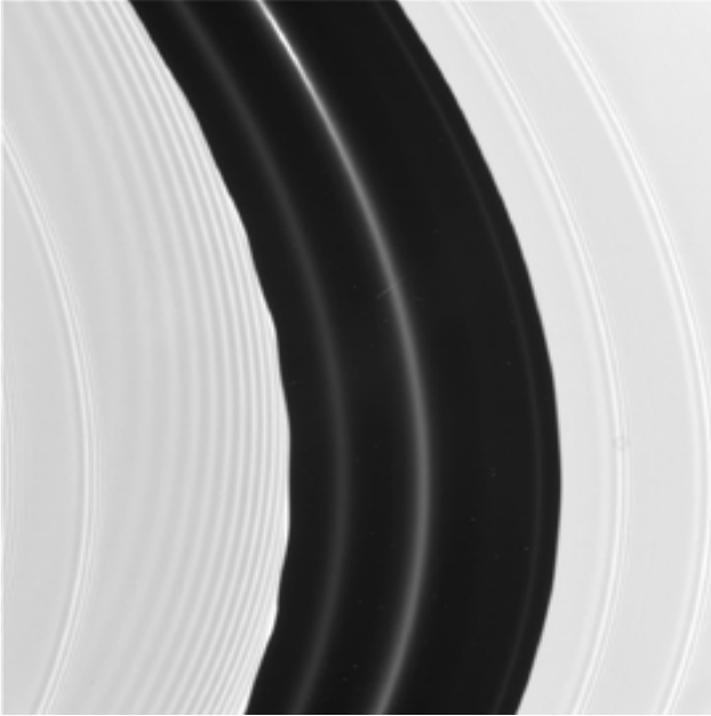
## GASP (Georgia Astronomy in State Parks) Schedule

September 4 – FDR State Park; October 2 – Florence Marina State Park; November 20 – Unicoi State Park

If you have any questions about these events, contact Joanne at [Starrynights@AtlantaAstronomy.org](mailto:Starrynights@AtlantaAstronomy.org). More information is also posted on the AAC Website.

## Saturn Discoveries Gallery

Enjoy the some of the latest images sent by the Cassini spacecraft of Saturn's rings and its moons. *Right: Pheobe was imaged on June 11th during the Cassini mission's only close encounter with that moon. This image is about 1000 times better than the Voyager probe's best image. Below: A closeup of the Encke gap in the A ring. Note the faint delicate ring in the center of the gap.*



*Above: Density waves in the A ring. Right: An outer portion of the A ring with the Encke Gap and the thin ribbon-like F ring.*

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. Membership is open to all. Membership fee's are **\$30** for a family or single person membership. College Students membership fee is **\$15**. These fees are for a one year membership.

Magazine subscriptions to Sky & Tel or Astronomy can be purchased through the club for a reduced rate. The fees are **\$33** for Sky & Tel and **\$29** for Astronomy. Renewal forms will be sent to you by the magazines. Send the renewal form along with you check to the Atlanta Astronomy Club treasurer.

**Club address is:**

Atlanta Astronomy Club  
PMB 305  
3595 Canton Road A9  
Marietta, Georgia 30066

Atlanta Astronomy Club Hot Line: Timely information on the night sky and astronomy in the Atlanta area. Call **770-621-2661**.

Internet Home 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.

## Atlanta Astronomy Club Listserve

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.

## PSSG'04 Design the T-Shirt Contest

By Peter Macumber

Put your artistic talents to the test. Submit your design for this years PSSG. There are a couple of simple rules and design elements that must be incorporated.

Your design must be submitted to the PSSG Committee on or before August 20th. The PSSG Committee will present selected designs to the membership meeting in September. The PSSG Committee reserves the right to accept or reject any design. The decision of the PSSG Committee is final.

Keep in mind the following items when designing. Limit colors to four. Include the PSSG Peach. Include "Atlanta Astronomy Club" in the design. Design must be suitable for screen printing on T-Shirt. Preference is for a light colored shirt. Design on shirt will be approximately 11x17 inches.

For more info please visit [website at http://atlantaastronomy.org/PSSG2004](http://atlantaastronomy.org/PSSG2004).

## PSSG 2004 Meal Plan Survey

By Peter Macumber

We are considering changing the meal plan, for those who wish to purchase meals. If you are interested in the meal plan for the PSSG, answer the question in the current survey to choose whether or not you would prefer: a Breakfast and Lunch, or a Late Breakfast/Brunch. Your feedback will help the committee decide! Visit [www.AtlantaAstronomy.Org](http://www.AtlantaAstronomy.Org) and vote in the poll.

## AAC Contacts

**President:** Chuck Painter 4-386-3899  
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**Elliott Recording Secretary:** Clevis Jones  
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[johnlentini@yahoo.com](mailto:johnlentini@yahoo.com)

**Webmaster Atlanta Astronomy:** Peter Macumber 7-941-4640  
[pmacumber@nightsky.org](mailto:pmacumber@nightsky.org)

## 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>

**Calendar**

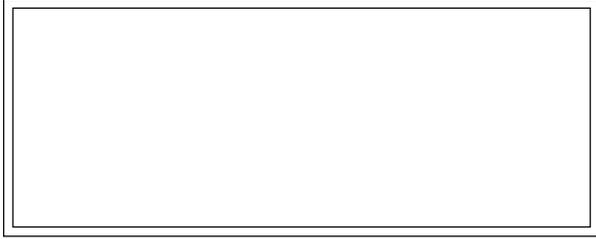
**July 16th: General Membership Meeting.** White Hall at Emory University. Starts at 8PM. Speaker Dr. Douglas R. Gies.

**July 17th: Charlie Elliott Chapter Meeting.** Visitor Center. Starts at 5PM. Speaker: Dr. Richard Schmude, Jr., "The Outer Planets."

**July 17th: Deep Sky Observing.** Oconee Wildlife Management Area. Contact Jim Holley for info.

**July 29th: Focal Point submission deadline.** 4PM.

**FIRST CLASS**



*The Focal Point*

Newsletter of The Atlanta Astronomy Club, Inc.

FROM:

Kat Sarbell

2025 Peachtree Road, Apt.#408

Atlanta, GA 30309

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

Atlanta Astronomy Club

PMB 305

3595 Canton Road A9

Marietta, GA 30066

**Newsletter Deadline and Info**

Please send articles, pictures, and drawings in electronic format on anything astronomy related to Kat Sarbell at focalpoint@atlantaastronomy.org. **You can submit articles anytime up and including the deadline date. The deadline for August is Thursday, July 29th at 4:00 PM ... Submissions will no longer be accepted after the deadline.**