

The Focal Point

The Atlanta Astronomy Club
Established 1947
June 2004

Vol XVII No. 1

Editor: Kat Sarbell

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June General Membership Meeting

The June meeting will take place Friday June 18th at Bradley Observatory on the Agnes Scott College Campus. Please join us for refreshments and socializing from 7:30 to 7:55 PM. The meeting will start promptly at 8 PM.

New! Starting this month we will feature a Member Focus at each meeting. We have wonderful volunteers in the Atlanta Astronomy Club who are dedicated to our mission of promoting amateur astronomy. To help you put a face to a name and learn more about club involvement, we will feature a short segment on one of the club's many volunteer efforts. Please contact our Program Chairman, Nancy Cronin, about volunteer work you would like to see highlighted.

Our featured speaker this month is author Philip Sacco. His presentation titled "The Changing Faces of Mythology", will discuss the various categories of constellation mythology. This examination of the constellations will focus on cultural and historical perspectives. You will learn how to tell the oldest from the newer mythological stories, and how those stories were critical to astronomical understanding within cultures.

Background: Philip Sacco has been a member of the Atlanta Astronomy Club since 1995, during which he has served as Club President, Observing Vice President, and has routinely taken a leadership role in educating the public about astronomy. He was instrumental in working with the Department of Natural Resources to establish an observing site at the Charlie Elliott Wildlife Management Area, and in helping to establish the Charlie Elliott Chapter of the Atlanta Astronomy Club.

His interest in storytelling and his experience teaching the history and mythology of the heavens, helped to paved the way in writing his first non-fiction book, which was published last year. "Awaken The Warrior: A Practical Guide For A Troubled Time" calls upon a blend of Jungian archetypes, scripture and historical references to aid understanding. He is currently working on his next book, called "And Orpheus Sang the Blues...". It will include a retelling of the favorite mythological stories he is most often asked about.

His past presentations to the club include his talk on The Lovers Triangle in August of 2002, and more recently his participation in the imaging presentation last September where he discussed piggyback photography. Please join us for what is sure to be an interesting perspective on astronomical education as passed through the ages.



Directions to Bradley Observatory

From I-20: Take Candler road exit north past Memorial Dr., past Kirk road (light) look for E. Dougherty St. on your left (at the Agnes Scott College sign). Turn left, and park your car as 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 right and park as directed below.

From downtown: Take Ponce de Leon east until it hits 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. Dougherty St. on your right. Turn right and park as directed below.

Please keep in mind that E. Dougherty St. is a one-way street!

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.

Charlie Elliott Chapter Meeting Minutes

May 2004

Recorded by Clevis Jones

The Chapter Director called the monthly meeting of the Charlie Elliott Chapter (CEC) of the Atlanta Astronomy Club (AAC) to order at 7:00 PM, Saturday, May 22, 2004.

ATTENDING: Tom Buchanan (visiting AAC member), Mark House (Director), Jim Honeycutt, Debbie and Clevis Jones, Steve Kennedy, Bill McKibben, Angus Owens (Guest), Larry Owens (Rec. Secretary), Alesia Rast (CEWMA Liaison), Bill Snyder.

OLD BUSINESS: Mark House reported the chapter's participation with an Astronomy booth at the Charlie Elliott Wildlife Management Area's (CEWMA) JAKE'S DAY event on Saturday (May 22nd) was well attended. Alesia Rast, CEWMA Liaison, reported total attendance at the event was a little over 1,800 people. Mark House, Steve Kennedy, Debbie & Clevis Jones manned the booth. Views of the Sun were provided with a telescope with proper Sun filter. More than ten gallons of water, 250 cups, and a big bag of lollypops were consumed by

the people visiting the Astronomy booth. All who approached were asked various questions regarding the Sun, planets, solar system, and Milky Way Galaxy. The public asked the booth attendees questions regarding the possible 10th planet and Earth's magnetic field. Many were invited to attend the club's meeting that night. Mark thanked all the booth attendees for their help - all said they had a lot of fun.

Larry Owens reported he contacted the supervisor at the CEWMA regarding what was required for the building of a shelter for the 16-inch telescope (donated by Chuck Kibling). Within the next couple of months, Larry will get the telescope from Mark House and evaluate its serviceability. If serviceable, or able to be made serviceable at reasonable expense, he will proceed with drawing up a detailed proposal and blueprints to present to the club and to the CEWMA management.

NEW BUSINESS: Election of new CE Chapter officers: Director: Larry Owens; Observing Supervisor: Debbie Jones; Recording Secretary: Clevis Jones. There was a discussion about defraying JAKE'S DAY and coffee expenses including a question as to from where are the funds to come. The matter will be looked into by the new officers and revisited.

PRESENTATIONS:

Current Events: Clevis Jones gave a slide and music program highlighting:

- A look at Jupiter as it has now crossed the north-south meridian by sunset and will be sinking into the west.

- An update on the two Mars Rovers - Spirit is heading for the Columbia Hills - Opportunity is investigating objects in the Endurance crater.

- Comets BRADFIELD, LINEAR, and NEAT, and grouping of the Moon, Saturn, and Mars this same evening.

- The June 8, 2004 Venus transit of the Sun - to the music of John Philip Sousa's 1882 TRANSIT OF VENUS MARCH, composed for the Venus transit of that year.

The Main Program: Bill Snyder presented a detailed slide presentation on "Astronomical Spectroscopy". Everyone received his/her own 'diffraction grating', compliments of Bill. Thank you, Bill! Bill took the time to answer many questions. It was a very interesting program! After the presentations, Tom Buchanan, showed several people his homemade spectrometer and photographic spectrographs - to the delight of all. Everyone had a good time.

CLOSING: The Director adjourned the meeting at 10 PM after the presentations. No observing was possible due to cloud cover.

Future Charlie Elliott Chapter Meetings

Saturday, June 19th from 5:00 to 7:30 PM: “*Current Events in Astronomy*” - Steve Kennedy; “*Film, Digital, and CCD Astrophotography*” - Larry Owens.

Saturday, July 17th from 5:00 to 7:30 PM: “*Current Events in Astronomy*” - TBD; “*The Outer Planets*” - Dr. Richard Schmude, Jr.

Saturday, August 21st from 5:00 to 7:30 PM: “*Current Events in Astronomy*” - TBD

Meetings are held at the Charlie Elliott Visitor Center Classroom. Enter through the left side door nearest the back of the building.

May 2004 AAC Meeting Minutes

Recorded by Julie Moore

The Atlanta Astronomy Club met for their general meeting on May 21, 2004 at 8:00 PM on the campus of Emory University. Approximately 50 members and visitors attended. The following slate of officers was presented: President: Dan Llewellyn and Chuck Painter; VP/ Programs Chair: Nancy Cronin; VP/ Observing Chair: Jim Holley; Corresponding Secretary: Kat Sarbell; Recording Secretary: Brad Isley; Treasurer: Kelly Melikian; Board: Chris Hetlage, Tom Faber, and Donovan Conrad.

Phil Bracken moved that all but president be elected by acclamation. The motion was seconded and passed. Each presidential candidate spoke for 2 minutes, followed by a question period. Chuck Painter was elected in a close vote.

Peter Macumber reported that the PSSG is scheduled for October 13-17. We were treated to a slide show by Chris Hetledge of images and people from 2003/4 AAC events.

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).

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>

Far-out Ideas

by Patrick L. Barry

Ever had a great idea for a new spacecraft propulsion system, or for a new kind of Mars rover? Have you ever wondered how such “dinner napkin sketches” evolve into real hardware flying real missions out in the cold blackness of space?

The road to reality for each idea is a unique story, but NASA has defined some common steps and stages that all fledgling space technologies must go through as they're nursed from infancy to ignition and liftoff.

Suppose, for example, that you've thought of a new way to shield astronauts from harmful radiation during long space missions. In the first stage, you would simply “flesh out” the idea: Write it down, check the physics, and do some quick experiments to test your assumptions.

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 fees 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. Also send information on upcoming observing events, meetings, and other events to the webmaster.

If the idea still looks good, the next step is to build a “proof of concept.” This is the “science fair project” stage, where you put together a nifty demonstration on a low budget—just to show that the idea can work.

For your radiation-shielding idea, for example, you might show how a Geiger counter inside a miniature mock-up doesn’t start clicking when some radioactive cobalt-60 is held nearby. The shielding really works!

Once that hurdle is cleared, development shifts into a higher gear. In this stage, explains Dr. Christopher Stevens of JPL, the challenge isn’t just making it work, but making it work in space.

”Some conditions of space flight cannot be adequately simulated here on Earth,” Stevens says. Cobalt-60 doesn’t truly mimic the diverse mixture of radiation in space, for example, and the true microgravity of orbit is needed to test some technologies, such as the delicate unfolding of a vast, gossamer solar sail. Other technologies, such as artificial intelligence control systems, must be flight tested just because they’re so radically new that mission commanders won’t trust them based solely on lab tests.

Stevens is the manager of NASA’s New Millennium Program (NMP), which does this sort of testing: Sending things to space and seeing if they work. In recent years the NMP has tested ion engines and autonomous navigation on the Deep Space 1 spacecraft, a new “hyperspectral” imager on the Earth Observing 1 satellite, and dozens of other “high risk” technologies.

Thanks to the NMP, lots of dinner napkin sketches have become real, and they’re heading for space. You can learn more at the NMP website, nmp.nasa.gov/.

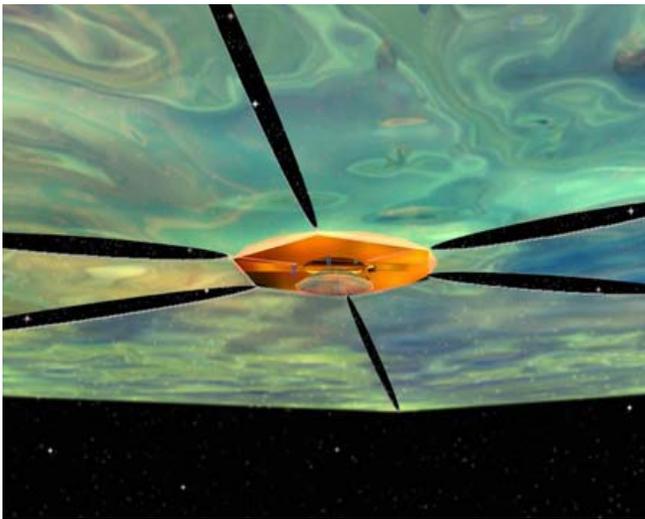


Image caption: This is just one idea of how a solar sail could be used to power an interstellar probe. A solar sail is one possible type of new technology that NASA’s New Millennium Program would test in space before it would be risked on a scientific mission.

This article was provided by the Jet Propulsion Laboratory, California Institute of Technology, under a contract with the National Aeronautics and Space Administration.

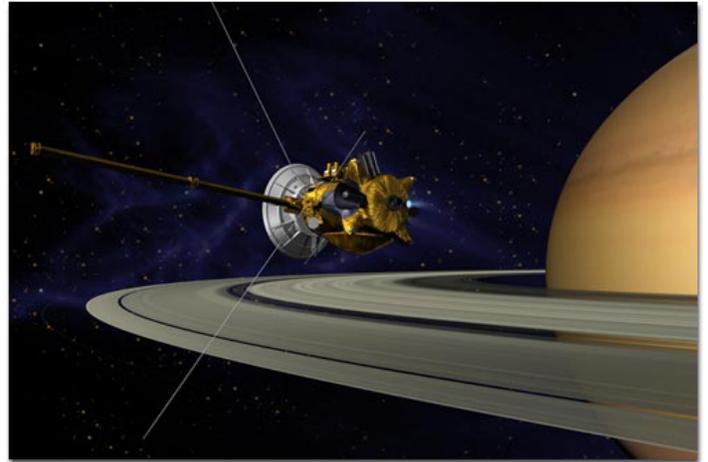
GASP (Georgia Astronomy in State Parks)

September 4 – FDR State Park

October 2 – Florence Marina State Park

November 20 – Unicoi State Park

If you have any questions about any of our events please let me know. Joanne - Starrynights@AtlantaAstronomy.org. Our events are also posted on the Website.



An artist’s rendition of Cassini firing its engine to enter orbit around Saturn. Image JPL/NASA.

Cassini Arrives at Saturn

By Tom Faber

After a seven year journey from Earth, the Cassini-Huygens Spacecraft finally arrives at Saturn on July 1st to begin a four year tour of Saturn, its moons, and its rings. In January of 2005, it will deploy the European Space Agency’s Huygens probe to descend through the atmosphere of the moon Titan and possibly land on its surface.



An artist’s rendition of the Huygens probe descending through the atmosphere of Titan. Image JPL/NASA.

PSSG'04

By Peter Macumber

Are you planning to attend the PSSG in October? 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. A late Breakfast/Brunch. Your feedback will help the committee decide! Visit AtlantaAstronomy.Org and vote in the poll.



Meet your new officers and board members! From left to right: Tom Faber (Board), Chuck Painter (President), Kat Sarbell (Corresponding Secretary), Mike Boni (Board), Nancy Cronin (Program Chair/Board Chair), Mark Banks (Board), Kelly Melikian (Treasurer), Chris Hetlage (Board), Jim "Curley Joe" Holley (Observing Chair), Brigitte Fessele (Board), and Brad Isley (Recording Secretary). Donovan Conrad (Board) not pictured.

Telescope Workshop

The new Telescope Workshop group will meet at the Bradford Map Store on Saturday, June 12th, at 11AM. The Bradford Map Store is located on 300 Hammond Drive in Sandy Springs. For additional information contact Dan Llewellyn at 678-579-9661 or at zoser@mindspring.com. You can also contact Sharon Carruthers at 770-941-4640 or at scarruthers@atlantaastronomy.org.

Scout Training

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 dates for Woodruff:

June 10 Gary Jordan

June 17 Gary Jordan

June 24 Gary Jordan

July 1 Gary Jordan

July 8 Gary Jordan

July 15

July 22

July 29

The following are dates for Bert Adams:

June 10 Ken Gabrielson

June 17 Ken Gabrielson

June 24

Abbeville Telescope Company

Gordon Studstill, a member from Abbeville Ga. has opened a telescope store. Abbeville Telescope Co. is open for business as a Tele Vue dealer with some stock on hand and the full line of Tele Vue telescopes, eyepieces and mounts available.

I have also made an agreement with Coronado Technologies to become a dealer for their line of solar telescopes. Also talking with Scott Losmandy about his line of mounts.

I plan to attend as many events as I can in the southeast part of the country to demonstrate the products I carry. The advantages of being located in a small rural town like Abbeville are the dark skies away from any large cities. I can offer my customers the opportunity to "test drive" a new scope before purchase. I look forward to building my business and hope the AAC will support me when they can.

Thanks, Gordon Studstill Abbeville Telescope Co. 351 West College St. Abbeville, Ga. 31001 phone 229-467-2878 email gphoto1@alltel.net

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. To add a subscription, send a message to: AstroAtlanta-subscribe@yahoogroups.com. This list is owned by Lenny Abbey.

Mentoring Program Here!

Membership in the AL (Astronomical League) gives you access to all the wonderful observing programs they offer to help you learn certain aspects of the sky. Every club member of the AAC is also a member of the Astronomical League. Anyone who is a regular reader of this small tidbit about the AL has noticed how little it has changed in months. Finally I have something new to report this month.

Myself and Philip Sacco want to start a new program called the mentor program. Now it's nothing complicated. Basically we want to connect those who have completed certain AL observing programs with those who want to do one of those programs. Simple get-togethers with the mentor and students. There's no regularly scheduled events for they will be scheduled as needed by the mentor and students. All will bring their telescopes with and work on the programs together. This gives you a chance to get started on a program. This also gets you unstuck if you are working on one and need some questions answered.

I am volunteering to lead the Mentoring programs for the Messier Club, Lunar Club, and the Double Star Clubs. I live on the northwest/west side of town. If you have any questions about the Mentoring program, please contact me. Phone evenings (770-427-1475) or email (Keith_B@Bellsouth.net).

Phil Sacco is volunteering to run the mentoring programs for the Lunar Club, Double Star Club and the Planetary Club. He lives on the east side of town. Phil will also handle any inquiries into the other Astronomical League programs. Contact him via phone at 404-296-6332 or email at (ppsacco@comcast.net).



Who says great observing can't be done in the city? Lunar observing can be enjoyed on any clear night when the moon is visible. Here some club members take advantage of an empty parking lot. Mentor Keith Burns (far left) assists (from left to right) Tom Faber, Nancy Cronin, and Kat Sarbell with recording observations for the Astronomical League Lunar Program. Photo taken by Chris Hetlage.

All of the leagues observing programs are available at the AL website. You can either download a copy of the list for a program or purchase the helpful workbooks available. There are 22 programs now. The better known ones include Messier Binocular, Messier, Lunar, Double Star, Urban, Sampler, Sunspotter, Planetary, Meteor Shower, and Herschel. Check out the website at www.astroleague.org

Dying Star Sculpts Rungs of Gas and Dust

Astronomers may not have observed the fabled "Stairway to Heaven," but they have photographed something almost as intriguing: ladder-like structures surrounding a dying star.

A new image, taken with NASA's Hubble Space Telescope, reveals startling new details of one of the most unusual nebulae known in our Milky Way. Cataloged as HD 44179, this nebula is more commonly called the "Red Rectangle" because of its unique shape and color as seen with ground-based telescopes.

Hubble has revealed a wealth of new features in the Red Rectangle that cannot be seen with ground-based telescopes looking through the Earth's turbulent atmosphere. Details of the Hubble study were published in the April 2004 issue of *The Astronomical Journal*.

Hubble's sharp pictures show that the Red Rectangle is not really rectangular, but has an overall X-shaped structure, which the astronomers involved in the study interpret as arising from outflows of gas and dust from the star in the center. The outflows are ejected from the star in two opposing directions, producing a shape like two ice-cream cones touching at their tips. Also remarkable are straight features that appear like rungs on a ladder, making the Red Rectangle look similar to a spider web, a shape unlike that of any other known nebula in the sky. These rungs may have arisen in episodes of mass ejection from the star occurring every few hundred years. They could represent a series of nested, expanding structures similar in shape to wine glasses, seen exactly edge-on so that their rims appear as straight lines from our vantage point.

The star in the center of the Red Rectangle is one that began its life as a star similar to our Sun. It is now nearing the end of its lifetime, and is in the process of ejecting its outer layers to produce the visible nebula. The shedding of the outer layers began about 14,000 years ago. In a few thousand years, the star will have become smaller and hotter, and will begin to release a flood of ultraviolet light into the surrounding nebula; at that time, gas in the nebula will begin to fluoresce, producing what astronomers call a planetary nebula.

At the present time, however, the star is still so cool that atoms in the surrounding gas do not glow, and the surrounding dust particles can only be seen because they are reflecting the starlight from the central star. In addition, there are molecules mixed

Continued on the next page.

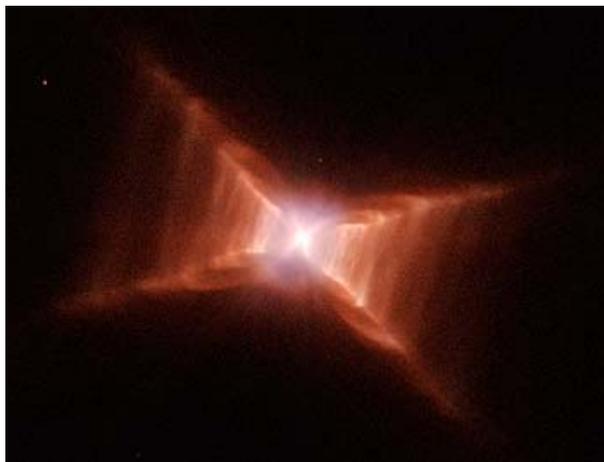
in with the dust, which emit light in the red portion of the spectrum. Astronomers are not yet certain which types of molecules are producing the red color that is so striking in the Red Rectangle, but suspect that they are hydrocarbons that form in the cool outflow from the central star.

Another remarkable feature of the Red Rectangle, visible only with the superb resolution of the Hubble telescope, is the dark band passing across the central star. This dark band is the shadow of a dense disk of dust that surrounds the star. In fact, the star itself cannot be seen directly, due to the thickness of the dust disk. All we can see is light that streams out perpendicularly to the disk, and then scatters off of dust particles toward our direction. Astronomers found that the star in the center is actually a close pair of stars that orbit each other with a period of about 10 1/2 months. Interactions between these stars have probably caused the ejection of the thick dust disk that obscures our view of the binary. The disk has funneled subsequent outflows in the directions perpendicular to the disk, forming the bizarre bi-conical structure we see as the Red Rectangle. The reasons for the periodic ejections of more gas and dust, which are producing the “rungs” revealed in the Hubble image, remain unknown.

The Red Rectangle was first discovered during a rocket flight in the early 1970s, in which astronomers were searching for strong sources of infrared radiation. This infrared source lies about 2,300 light-years from Earth in the direction of the constellation Monoceros. Stars surrounded by clouds of dust are often strong infrared sources because the dust is heated by the starlight and radiates long-wavelength light. Studies of HD 44179 with ground-based telescopes revealed a rectangular shape in the dust surrounding the star in the center, leading to the name Red Rectangle which was coined in 1973 by astronomers Martin Cohen and Mike Merrill.

This image was made from observations taken on March 17-18, 1999 with Hubble’s Wide Field Planetary Camera 2.

Credit: NASA; ESA; Hans Van Winckel (Catholic University of Leuven, Belgium); and Martin Cohen (University of California, Berkeley)



AAC Contacts

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Elliott Recording Secretary: Clevis Jones
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Mentor Program: Keith Burns 7-427-1475 Keith_B@bellsouth.net

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Co-Chairman: Joanne Cirincione starrynights@AtlantaAstronomy.org

Sidewalk Astronomy / Board: Mark Banks 4-257-2766
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Woodruff Observ. Coordinator: John Lentini 7-984-0175
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Webmaster Atlanta Astronomy: Peter Macumber 7-941-4640
pmacumber@nightsky.org

Acknowledgements

I wish to thank everyone who helped me with creating and publishing my first Focal Point: Keith “Kozmic Kow” Burns, Nancy Cronin, Tom Faber, Peter MacCumber, Chris Hetlage, Chuck Painter, and everyone else who provided me with help and information.

Calendar

June 12th: The Telescope Workshop Meeting. Bradford Map Store, 300 Hammond Drive, Sandy Springs. Starts at 11AM.

June 18th: General Membership Meeting. Bradley Observatory at Agnes Scott College. Starts at 8PM. Speaker: Philip Sacco, "The Changing Faces of Mythology."

June 19th: Charlie Elliott Chapter Meeting. Visitor Center. Starts at 5PM. Speakers: Steve Kennedy and Larry Owens.

June 19th: Deep Sky Observing. Contact Jim Holley for info.

June 19th: GPTV Georgia Outdoors GASP Program. Channel 8, starts at 6PM. Repeats June 20th at 12:30PM.

July 1st: Focal Point submission deadline. 4PM.

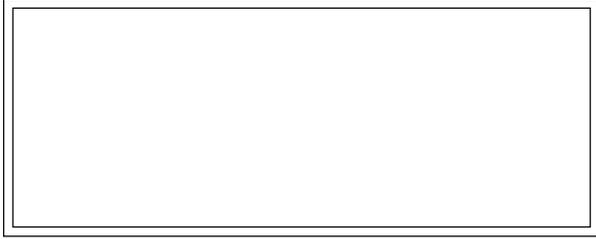
July 16th: General Membership Meeting. White Hall at Emory University. Starts at 8PM. Speaker TBA.

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

July 17th: Deep Sky Observing. Contact Jim Holley for info.

July 30th: 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@atlantiaastronomy.org. You can submit articles anytime up and including the deadline date. **The deadline for July is 4:00 PM July 1st. Submissions will no longer be accepted after the deadline.**