The Focal Point

The Atlanta Astronomy Club
Established 1947
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Editor: Keith Burns

In This Issue:

February General Meeting

The meeting will take place on Friday February 15th. Location is on the Emory University Campus at White Hall Center. Meeting starts at 8PM. The premeeting refreshments and social hour are scheduled to take place from 7:30PM to 8PM. Featured speaker is Dave King of Auburn University. His talk will be on the Wetumpka Meteor impact crater located in Southern Alabama. For more information about him, please see the article following this.

Dr. David T. King, Jr

Dave earned a B.S. in Geology (with honors) from the University of Louisiana in 1972. He went on to earn a M.S. in Geology, Sedimentology and stratigraphy from the University of Houston in 1976. He earned a Ph.D. in Geology, Carbonate petrology and stratigraphy from the University of Missouri-Columbia in 1980.

Dr. King's current research interest is the effect of extraterrestrial impact upon Earth history and the stratigraphic record. His current research projects include: studies of Wetumpka impact crater in Alabama; Cretaceous-Tertiary impact-boundary stratigraphy in Belize, Italy, and Spain; and late Eocene impact-boundary stratigraphy in Italy. From 1980-1995, most of his work focused on facies analysis, sequence stratigraphy, sea-level dynamics, and clastic aquifer properties of Alabama's Upper Cretaceous stratigraphic section in the Gulf Coastal Plain, and he maintains an interest in this area. In addition to these projects, Dr. King has studied Jurassic Smackover Limeston of south Alabama hydrocarbon basins, Wausortaian (Early Mississippian) buildups and reefs in the North American mid-continent and globally, Late Cretaceous dinosaur biogeography, lunar regolith, chert petrology and metamorphism, and the petrology and diagenesis of limestone, chalk, and marl. He maintains a strong interest in the history of stratigraphy and is a former Commissioner of the North American Commission on Stratigraphic Nomenclature (1997-2000). In 1982 while doing field studies in Montgomery County, Alabama, he discovered the most complete eastern North American tyrannosaurid dinosaur. This specimen is now in the Red Mountain Museum, Birmingham, Alabama. Since 1980, Dr. King has supervised 13 geology graduate-student thesis projects.

Dr. King's recent research has been funded by a Dean's Research Initiative (Wetumpka impact crater), the National Geographic Society (clastic aquifers), Alabama Department of Economic and Community Affairs (Smackover Limestone), and Vulcan Materials Company (Wetumpka impact crater). In the past, his research has been funded by Chevron USA, ARCO, Inc., American Chemical Society, USDA/CSRS/Alabama Agricultural Experiment Station, USGS/Water Resources Research Institute, General Crude Oil Minerals, Inc., the National Science Foundation, and Auburn University Grants-in-Aid.

At the undergraduate level, Dr. King regularly teaches introductory-level Physical Geology and senior-level Stratigraphy. He is one of several faculty members at Auburn University who co-taught or team-taught graduate courses in sedimentary geology and stratigraphy, including Facies Analysis and Sequence Stratigraphy.

Dr. King has been honored as the outstanding science/math faculty member in the former School of Arts and Sciences (1985) and as an Auburn Alumni Association outstanding teacher (1989). He has published over 50 scientific papers and over 100 abstracts. Besides that, he has written non-technical material for general audiences about geology and educational materials for teaching and outreach.

On a more personal note, his wife will be accompanying him to

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Atlanta for this presentation. She, interestingly enough, has her Master's Degree in Astronomy. So, we will be in for a real treat. Do you have questions about what all of the research is about? Come in and hear for yourself. (We are talking about a field trip to Wetumpka to have a look-see for ourselves!) So, please make it a point to come and we will see you there.

Contributing to the Newsletter

I'm looking for articles, pictures, and drawings on anything astronomy related. All formats are acceptable. Pictures can be sent as either JPEGs, GIFs, or other formats. I can also scan in hard copy pictures. Articles can either be sent via snail mail addressed to Keith Burns 3740 Burnt Hickory Road Marietta, Georgia 30064 or email at **Keith_B@bellsouth.net**. You can submit articles anytime up and including the deadline date. The **deadline** for the **March issue** is **March 3rd and no later**.

Zombie Party APR 12-14

Charlie Cottingham and Phil Bracken are jointly organizing and overseeing the April Zombie party. Individuals must pre register through Whitewater Express. You can contact them by phone (locally 404-325-5295 or tollfree 1-800-676-7238). Individuals should simply provide them their Credit Card number & expiration date. The exact same prices as the September trial event last year will apply. For more information on entrance/camping, bunkhouse, meals, and activities fees, contact either Whitewater Express, Charlie, or Phil. Contact Charlie for more information at 404-321-4831 or via email at Cott4treks@aol.com. Phil can be contact via email at philb@mindspring.com.

Second Annual Atlanta Astronomy Expo

By Carol Abernathy

OK folks, we have one under our belt. Last year we held our first expo and all in all it was deemed a success. However, with all new ventures, there are some things that could be done in a different manner and we learn by experience (hopefully). We are looking forward to seeing all your smiling faces getting exposure to the community about what astronomy and our club is all about. So, we are taking our learned knowledge and putting it into action.

You can expect great speakers – our keynotes are Chris Butler, Astronomy Artist Extraordinaire and Sten Odenwald, author of "Ask the Astronomer" and others. Michael Covington will be presenting his "twins" to us (for those who may not know, these are his two upcoming published books). There will be vendors and opportunities to make astronomy related purchases (with club discounts in many cases). Again this year it will be held at Agnes Scott, but in a different locale that will give us more space. And, we have more details to come on this, including a special event for the club members!

FROM THE PREZ….

By Sharon Carruthers

Well, from the look of the weather we have been having recently, A LOT of people must have got new telescopes for Christmas. Maybe it is time we asked Congress to shift the week — move Saturday and Sunday to Tuesday and Wednesday so we can get some good weekend skies!

Still, some of our members managed to complete their AL viewing lists and received their awards at our last general meeting. If you weren't there, you missed the most entertaining acceptance speech in AAC history by Art Zorka, who learned NOT to trust the guidance of his fellow members. And we also gave out a first-time award. Congratulations to Rich Jakiel, who now has his first AL Certificate (Messier). Rich, I hope this starts you on a long and rewarding career as an amateur observer. Also, congratulations to Phil Sacco for receiving the Master Observer Certificate for completing ten programs. He is the second AAC member to receive this – Dr Bill Warren was the first.

The AAC will be at Bradley Observatory, Agnes Scott at 6:00 p.m. on Wed Feb 20, for a sidewalk astronomy event that will focus on the Saturn occultation. Dr Lovell will be attempting to broadcast the occultation to the Planetarium through the CCD on the Beck telescope. Everyone is welcome to come out and bring their scopes.

Our first (annual?) spring Zombie party will be at Whitewater Express from Friday April 12 – Sunday April 14. Attendees will have to **reserve and pay** for their night(s) accomodation **in advance through Whitewater**. The Club will collect a $5/person fee (to pay for refreshments) on site. It is a great 3 day party of eating, socializing and some serious all-night observing – so come out, watch the sun come up and become an official ZOMBIE! Note that Whitewater Express is located in Tennessee about three miles east of Ducktown. Ducktown is located north of Blue Ridge, Georgia.

GASP/Georgia Astronomy in State Parks

By Joanne Cirincione

Welcome to our 3rd year of GASP! It's a brand new camping season and we hope to see more of our membership and non-members this year. For those who are not familiar with us, we go to state parks around Georgia and do sidewalk astronomy for the campers and the public at the campgrounds, or an area without lights. We start with a slide presentation at sunset then let them telescope hop. We camp over night and have a great

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Pictured above are Peter, Sharon, & David Macumber, Joanne Cirincione, Keith Burns, Chuck Painter, Tracy & Kim Wilson.

time touring the park before we leave. ***We have had tremendous turnouts and really can us more people and equipment to help us out***. Parks we have visited are Tallulah Gorge, Amicalola Falls, Unicoi, FDR, Cloudland Canyon and West Point Lake Campgrounds. We will be trying to get state parks we haven't visited yet included in our programs this year, such as Skidaway State Park in Savannah & Florence Marina in Omaha, Ga. We've confirmed a few so far: **Tallulah Gorge State Park** for 3/2 & 6/15 and **FDR State Park** for Labor Day Weekend. We tentatively have scheduled **Skidaway Island State Park** in Savannah for Memorial Day Weekend. We still have many open dates and will be working on getting them filled.

We will have a full spring/summer/fall so please keep watching for announcements and updates in the Focal Point, our website and on our GASPA listserve. To get on the GASP listserve just go to our website at AtlantaAstronomy.org and go to mailing lists and follow the links.

This is a great way to get to know other club members. Experiencing these wonderful state parks will be worth your while.

Amatuer Telescope Makers Group

Interested in building your own telescope? Want to enhance your current scope with some features or fix problems with it? Do you want to grind your own mirror or learn how it is done? This is the group for you. The ATM group meets every couple of weeks at Skip Cook's house. He has generously offer this location for this purpose. Contact him via phone (404-325-4987) or email (scz9@cdc.gov) for more information and directions. Tracy Wilson runs the group and has much expertise to offer. You can contact him via email (tracy@c2optical.com). Announcements of meetings will be posted on the AAC listserv. You can also find out about upcoming meetings from Skip.

They are using Skip's house currently but are interested in moving the group to another location. If you have a place where they can meet and work on those projects, please contact Skip.

I have recently seen the scopes that the regular ATMers have built, and I was impressed with the quality of their scopes. It's amazing what hard work, determination, shared knowledge, and a little money can do to make these wonderful instruments.

Hevelius Crater

By Tracy Wilson

Observing the Lunar impact crater (Johannes) Hevelius. Hevelius is a prominent crater on the west side of the Moon and is best observed 2 days before Full Moon. The sketch has a colongitude of 70.5W. http://www.c2optical.com/hevelius.jpg

The crater has many features and is striking to look. It is crossed hatched with rille and has several craters within its ancient walls. Of particular interest is the Rima Hevelius running far south from a starting point within the crater and crossing the crater wall itself. All of these features and more are easily seen though smaller instruments and I urge the Lunar observer to do so.

Johannes Hevelius(1611 - 1687) Was probably born in Poland and is listed in Rukl (plate 28) as a Polish Astronomer and Selenographer. According to several web pages he was the

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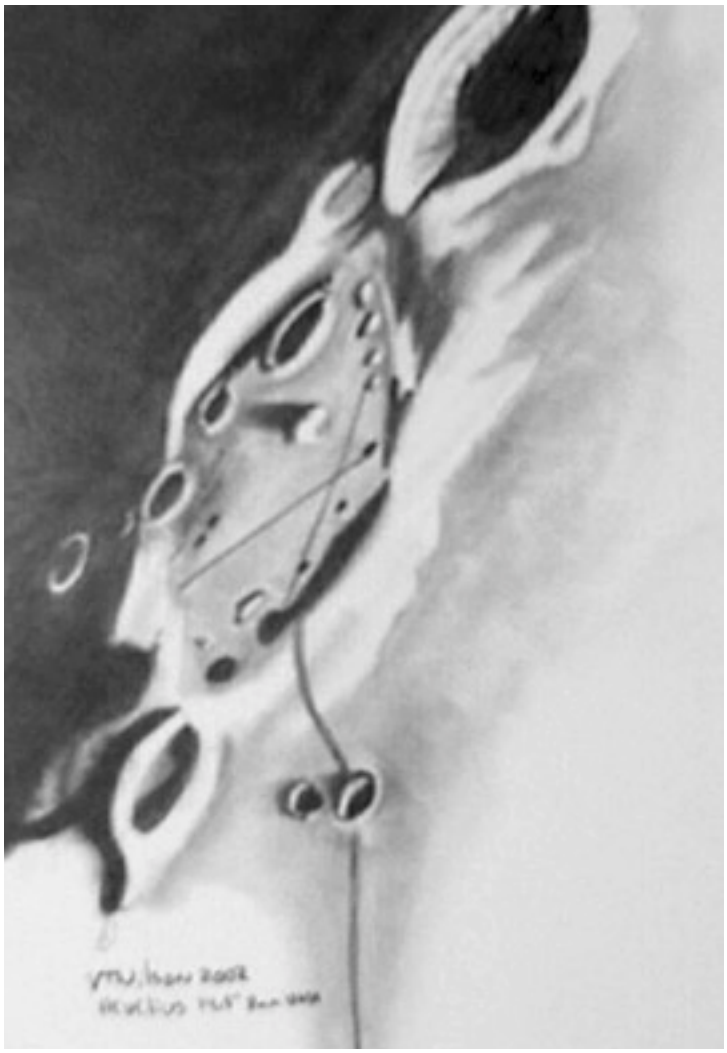
founder of Modern Selenography.

His maps still being used to this day. He also built a Large Observatory, was a telescope maker, drew a star atlas with over 1500 precise positions of stars complete with 7 new constellations. Much more can be found on the web on this incredible fellows life. It is fitting that such a beautiful crater bears his name.

For more info here is a great web page http://www.uranos.eu.org/biogr/hewele.html



What's That Satellite Do?

by Thomas Faber

This article came about due to a conversation I had with Sharon Carruthers at the Barber Observatory in Villa Rica. She mentioned that it would be helpful to have a short description of what various satellites do and where more information could be found. I thought that that was a good idea, and said that I would write an article. This article covers most of the satellites that are astronomy and space science related that are still operational. It also talks about some that are no longer functioning plus some of the other science satellites. A short description of the purpose of each satellite is given, along with a web site where more information can be found. Lunar,planetary, and interplanetary probes are not discussed but may be covered in a future article.

HST - Hubble Space Telescope

HST is the first of NASA's four "Great Observatories". It was launched by the Space Shuttle in April 1990 and has instruments that cover the spectrum from the near infrared, through the visible, to the near ultraviolet. It has been visited by the Space Shuttle three times since it was launched to install new science instuments and replace other equipment. Another servicing and instrument upgrade mission is scehduled for early 2002.

http://hubble.stsci.edu/

CGRO - Compton Gamma Ray Observatory

Compton was the second great observatory. It was launched by the Space Shuttle in April 1991 and had four instruments for detecting radiation in the gamma ray portion of the electromagnetic spectrum. CGRO was deorbited in June 2000.

http://cossc.gsfc.nasa.gov/cossc/

CXO - Chandra X-Ray Observatory

The third great observatory is the Chandra X-Ray Observatory. It was launched in July 1999 by the Space Shuttle and has instruments to study the universe in X-rays, along with the European Space Agency's XMM Newton discussed later.

http://chandra.harvard.edu/index.html

SIRTF - Space Infra-Red Telescope Facility

Space Infra-Red Telescope Facility is the last of the four great observatories. It will study the universe in the infrared wavelengths when launched in July of 2002. It will follow up on the sky survey and observations made by the IRAS in the mid 1980s. A naming contest was held to pick a name for SIRTF which will be announced sometime in 2002.

http://sirtf.caltech.edu/

ACE - Advanced Compostion Explorer

The primary purpose of ACE is to determine and compare the isotopic and elemental composition of nuclei in the solar wind, interplanetary medium, the local interstellar medium, and galactic matter. ACE was launched in August 1997 and is in a halo orbit around the earth-sun L1 point.

http://www.srl.caltech.edu/ACE/

BeppoSAX

This is a Dutch-Italian X-ray astronomy satellite that was launched in 1996. It was designed to study a wide range of X-ray energies from 0.1 to 300 keV and is used to monitor the X-ray afterglow of Gamma Ray Bursts.

Continued on the next page.

http://www.asdc.asi.it/bepposax/

Cluster II

Cluster is a European mission comprised of four identical spacecraft launched into large, elliptical polar orbits. The four spacecraft look at how particles from the Sun interact with the Earth's magnetosphere. Cluster observes the magnetic and electrical interactions between the Earth and the Sun, by making direct measurements of the fields and particles trapped in the Earth's magnetic field. The Cluster mission was originally to begin in June 1996, but all four satellites were lost in the failure of the first Ariane 5 rocket. The European Space Agency built four more spacecraft and they were launched by two Russian Soyuz rockets in July and August 2000.

http://sci.esa.int/cluster/

EUVE - Extreme Ultraviolet Explorer

The purpose of the EUVE was to map the sky and then study sources visible in the extreme ultraviolet, a little studied (at the time of launch) region of the electromagnetic spectrum just lower in energy than soft X-rays. EUVE was launched in June 1992 and was recently shut down.

http://ssl.berkeley.edu/euve/

FAST - Fast Auroral Snapshot Explorer FAST is a satellite designed to study Earth's aurora. This spacecraft has helped scientists answer fundamental questions about the causes and makeup of the aurora. FAST's primary objective is to study the microphysics of space plasma and the accelerated particles that cause the aurora. FAST was launched in August 1996.

http://sunland.gsfc.nasa.gov/smex/fast/

FUSE - Far Ultraviolet Spectroscopic Explorer

FUSE makes spectroscopic measurements of galactic and extra-galactic sources in the far ultraviolet. It covers the UV portion of the electromagnetic spectrum between what Hubble can observe (near UV) and the extreme UV observed by EUVE. FUSE was launched in June 1999. FUSE experienced a problem on December 10, 2001 that has resulted in science operations being suspended while troubleshooting of the problem takes place.

http://fuse.pha.jhu.edu/

Geotail Spacecraft

The Geotail mission is a collaborative project undertaken by the United States and Japan. The mission of the Geotail spacecraft is to study the dynamics and physics of the Earth's magnetotail over a wide range of distances, from about 8 to 200 earth radii. Geotail is part of the International Solar-Terrestrial Physics program, along with the Wind, SOHO, Polar, and Cluster projects. Geotail was launched in July 1992.

http://www-istp.gsfc.nasa.gov/istp/geotail/

GOES - Geosatationary Operational Evironmental Satellites The GOES are the satellites that provide the "weather satellite" images seen on the nightly news, the Weather Channel, and various web sites. In addition to images they also provide atmospheric sounding data that supports weather forecasting, storm tracking, and meteorlogical research. A number of them have been launched over the last two decades, and it is planned to have at least two operational at all times (GOES-East and GOES-West).

http://www.oso.noaa.gov/goes/

Below is my favorite site for satellite images. You can get nice non-colorized visible images, plus infrared and water vapor images:

http://www.rap.ucar.edu/weather/satellite/

HALCA

HALCA is a Japanese spacecraft that is the space based portion of the VLBI (Very Long Baseline Interferometry) Space Observatory Programme. The spacecraft was launched from Japan in Febraury 1997 and the first fringes between the satellite and ground radio telescopes were produced in May of that year.

http://www.vsop.isas.ac.jp/

IMAGE - Imager for Magnetopause-to-Aurora Global Exploration IMAGE studies and images the earth's magnetosphere and how it interacts with the solar wind. To image the magnetosphere IMAGE carries neutral atom imagers, far ultraviolet and extreme ultraviolet imagers, and a radio plasma imager. The IMAGE spacecraft was launched in March 2000.

http://pluto.space.swri.edu/IMAGE/

MAP - Microwave Anisotropy Probe

The mission of the Microwave Anisotropy Probe is to map the variations, or anisotropy, of the cosmic backround radiation. MAP carries on work done by the Cosmic Background Explorer (COBE) in the late 80s and early 90s. MAP was launched in June 2001 and after a lunar gravity assist it entered a halo orbit around the earth-sun L2 point on October 1, 2001. MAP is the first satellite to be stationed at the L2 point.

http://map.gsfc.nasa.gov/

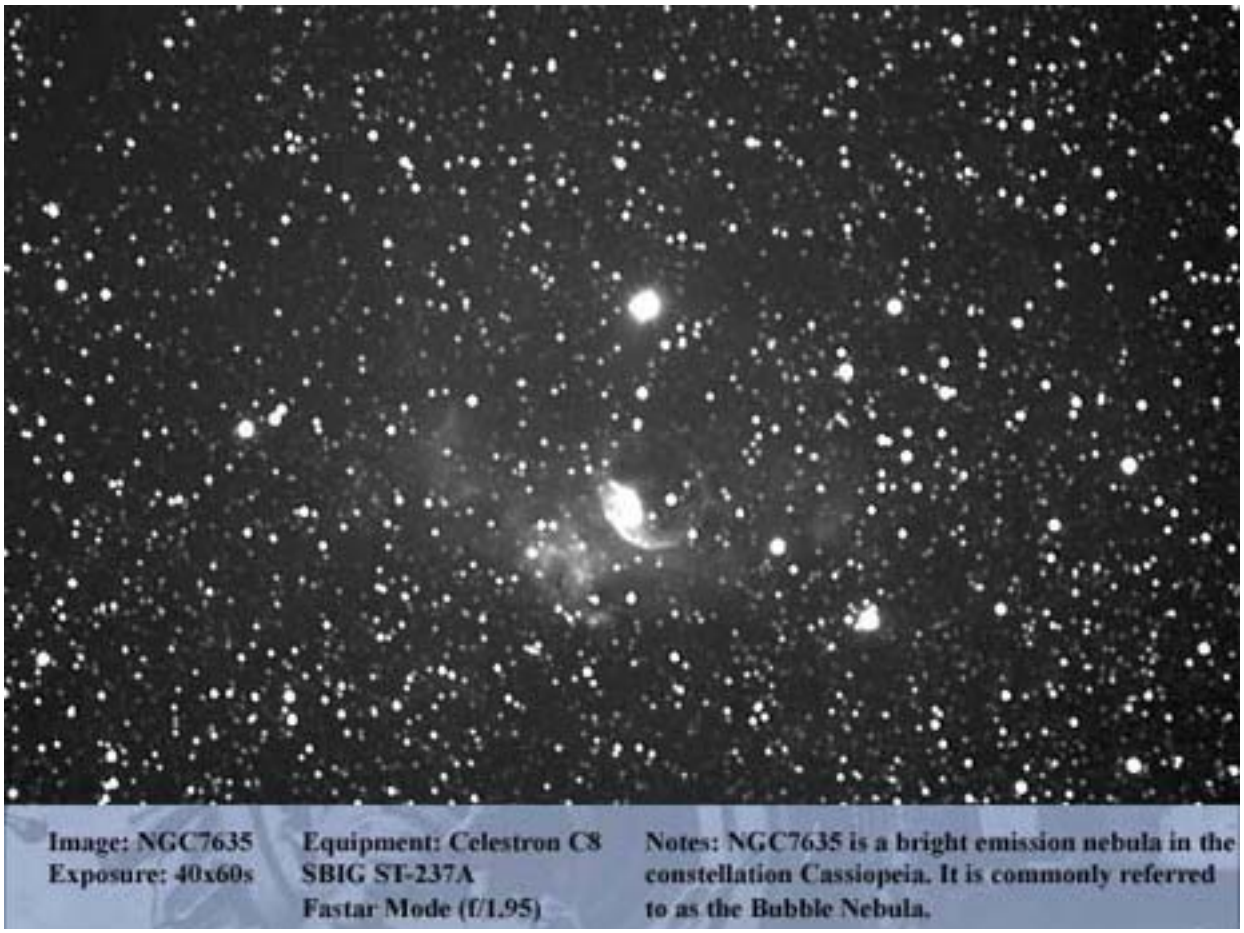
POES - Polar Operational Evironmental Satellites

In addition to the GOES weather satellites, there are weather satellites in fairly low sun-synchronous near polar orbits. These are also refered to as the NOAA weather satellites. Currently operational in orbit are a morning and afternoon satellite, which provide global coverage four times daily. The POES instruments includes the Advanced Very High Resolution Radiometer and the Tiros Operational Vertical Sounder. Different versions of these satellites have been launched since the 1960s.

http://www.oso.noaa.gov/poes/index.htm

What's That Satellite Do? part two in March issue.

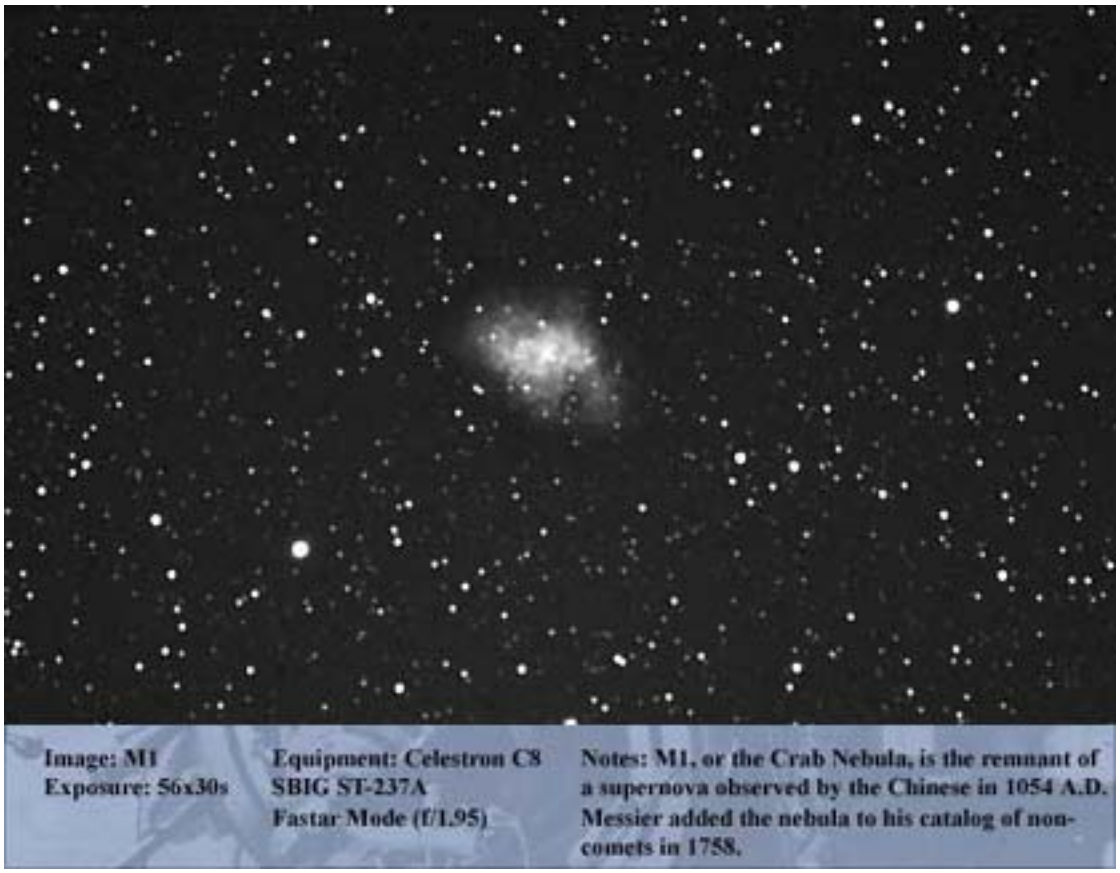
Above image taken by Bob Holzer. Galaxy is M-33 in the constellation of Triangulum. This image is one of several first light images taken with a Takahashi FSQ-106n f5 530mm APO Refractor w/ Robo-Focus. Camera used is a Starlight Xpress HX916 Camera w/ True Tech Custom Filter Wheel. Location is Charlie Elliott Wildlife Management Area on the astronomy observing field.



Above image taken By David Barmore.

General Meeting January 18, 2002

Number in attendance: 73 - **Sharon Carruthers, President** – Sharon opened the meeting by thanking **Julie Moore** for taking care of the refreshments and asking for reports from the Officers and Committee Heads. **Peter Macumber – Treasurer** – There are still 2002 Astronomy calendars available for $10. Some folks are having problems with downloading the on-line version of the Focal Point. To fix, just download the updated version of Acrobat Reader 4.0 or 5.0. **Rich Jakiel - Villa Rica Observatory Coordinator** - Public Open House, Saturday 1/19 (rained out). We will now have Public Open Houses every other month. Next one is March 23rd. **Keith Burns - Corresponding Secretary** - February 2nd deadline for February's Focal Point. Astronomy related articles are needed. **Joanne Cirincione - Georgia Astronomy in State Parks (GASP) Coordinator** - We will be at Tallulah Gorge State Park March 2. Other events confirmed: FDR State Park, Labor Day weekend. *Tentative*: Skidaway State Park, Savannah, GA for Memorial Day weekend. We are trying to work in new parks along with are regular parks. Keep watching the GASP or Events link on the web site. **Ken "Kenpo" Poshedly – Peach State Star Gaze (PSSG) Coordinator** – This year's PSSG will be held at American White Water Express October 3-6. Guest Speakers will be Wil Tirion and David Levy. **Art Russell -** Announced the upcoming speaker for February. Dr. David King of Auburn University's Geology Department. He will be talking about the Wetumpka meteor crater located near Montgomery, AL. The site of the meteor crater is a short day trip and worth taking. For more information please visit http://www.auburn.edu/~kingdat**. Tom Crowley - Atlanta Astronomy Expo (AAE) Coordinator** - Announced the 2nd Annual AAE - May 3-5. Friday, 5/3 will be for professional Astronomers only. Saturday, May 4 will be open to the public. There will be vendors and speakers. Sunday, 5/5 will be hands on for telescopes. More information will follow. **Phil Sacco, CEWC Coordinator** –There will be a public open house February 16. **Sharon Carruthers, President** - Announced a Zombie party for April 12 & 13 at White Water Express, the site of this year's PSSG. **Keith Burns, ALCOR Rep -** Keith gave out some Astronomical League awards: Art Zorka - Honorary Messier Club Award; Chuck Painter - APG Galaxy Award; Rich Jakiel - Honorary Messier Award; Phil Sacco - Master Award. Congratulations to all! **Sharon** closed the business part of the meeting by giving away some prizes. The trick, you had to answer her tricky questions! She also made an announcement for a tentative observing event, the Moon/Saturn Occultation, for Wednesday, February 20. Keep an eye on the Events link on the AAC Website for more information on this and any other event. (AtlantaAstronomy.org). **Alex Langoussis, in Carol Abernathy, Program Chair's absence,** introduced our guest speaker for the evening, April Whitt, from Fernbank spoke on Astronomy & Sri Lanka.



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Visit NightSky.Org/aac on the web. In a private sub-web, the past year of Focal Points can be found. Check it out. If it works for you, send Peter Macumber an e-mail at pmacumber@nightsky.org . The Focal-Point web can be entered by using the Username of **AAC** and a password of **Aries**. These names are case sensitive! Type **AAC** and **Aries** exactly as you see it here.

Notes on the Focal Point

Here is the policy for copyrighted material. The policy is that material sent to me is for use in our newsletter only. If anyone wants to use the material elsewhere, please contact the author of the article or photographer who has taken the picture. With rare exceptions, most people will grant you permission.

AAC Member of Astronomical League

For more info on the Astronomical League, visit their website at **http://www.astroleague.org**. The AAC astronomical league contact is Keith Burns.You can reach him via email at Keith_B@Bellsouth.net or 7-427-1475.

As part of the benefits of being a member of the AL, you can do one of the many observing programs available. Upon successful completion of the requirements the AL awards you a pin and certificate for your troubles. Hope you also gain knowledge along the way and an interest in some aspect of astronomy.

Atlanta Area Astronomers Listserv

While the Focal Point is a good source for information among other things, it cannot be undated after it is printed. If you have email access with a computer, then you can subscribe to the Atlanta Astronomers Listserv. This is a great source for up to the minute info on observing events. You can also post questions about astronomy. You can talk to fellow astronomers about the hobby or other things related to it.

Subscribe to the Atlanta Area Astronomers Mailing List**:** The name of the new list is: AstroAtlanta. The address for messages is: AstroAtlanta@yahoogroups.com . To add a subscription, send a message to: AstroAtlanta-subscribe@yahoogroups.com . To cancel your membership, send a message to AstroAtlanta-unsubscribe@yahoogroups.com . Messages for the list-owner (me) go to: AstroAtlanta-owner@yahoogroups.com or to LAbbey@mindspring.com . The "home page" for the list, from which you can change your account defaults is: http://www.yahoogroups.com/group/AstroAtlanta. This list is owned by Lenny Abbey.

Hotline and Website

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

The website has proven itself in attracting new members and keeping members informed of club events. This can only happen if we are given the information to post on the website. If you have any suggestions, comments or ideas please send them along to the webmaster@AtlantaAstronomy.org.

Internet Home Page: **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. Membership is open to all. Membership fee's are **$25** for a family or single person membership. College Students membership fee is **$10**. 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 **$30** 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.

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Marietta, Georgia 3006

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ATLANTA ASTRONOMY CLUB EST. 1947

The Focal Point

Newsletter of The Atlanta Astronomy Club, Inc.

FROM:
Keith Burns
3740 Burnt Hickory Road
Marietta, Georgia 30064

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

Atlanta Astronomy Club
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3595 Canton Road A9
Marietta, GA 30066

FIRST CLASS

Calendar

February 9th- Deep Sky Observing to be held at the William A.Calder Observatory located at Woodruff BSC. Woodruff located near Blue Ridge, GA. Starts at Dusk.

February 15th- General Membership Meeting. Emory University at White Hall. Speaker is Dave King of Auburn University. Topic: The Wetumpka Meteor Impact Crater of Alabama. Starts at 8PM.

February 16th- Open House and Orientation at CEWMA. Starts a 4PM. Location: Visitors Center.

February 17th- Board Meeting at Four Seasons Restraunt. Starts at 3PM.

March 2nd- GASP goes to Tallulah Gorge State Park. Located south of Clayton. GA. Talk, sidewalk astronomy, and camping.

March15th- General Membership Meeting. More information TBA.

March 16th- Deep Sky Observing to be held at the William A. Calder Observatory located at Woodruff BCS. Woodruff located near Blue Ridge, GA. Starts at Dusk.

March 23rd- Open House and Orientation at our Villa Rica Observatory AKA Walter F. Barber Jr. Starts at 4:30PM. Training to.

April 12-14th- Spring Zombie Party at Whitewater Express Camp located east of Ducktown, Tn.

April 20th- Open House and Orientation at the CEWMA site. Orientation at Visitors Center.

April 20th- GASP sidewalk astronomy at Providence Canyon/ Florence Marina. Located near Florence, Georgia which is south of Columbus.