

# The Focal Point

The Atlanta Astronomy Club  
Established 1947  
July 2013

Vol. 26 No. 2

Editor: Tom Faber

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## July General Meeting & Elections

Please join us for the July meeting of the Atlanta Astronomy Club on Friday, July 19th at 8PM. Our July meeting talk will be about observations of the north polar cap of Mars. Our speaker will be Dr. Richard Schmude. We will also attempt to have the elections of club officers and Board members at the July meeting. For two months now we have not had elections because there have not been enough members present at the meeting. The club bylaws require at least 25 members to be present to hold the elections. **Members please try to be present at the July meeting so we can hold the elections.** Most of the officers plan to run for another term but if you are interested in running for an office or Board position please contact club President Richard Jakiel. Our July meeting will take place at the Atlanta Freethought Society (AFS) building in Smyrna. Refreshments will be provided starting around 7:30PM. Directions to the meeting at The Atlanta Freethought Building: Take I-285 to exit # 16. Go south (in towards Atlanta) about half a mile. Turn right on to North Church Lane. The first Building you see on the left is it (Looks like a small brick church). The street address is 4775 North Church Lane S.E., Smyrna 30080.

### The Program:

The July program is entitled "The North Polar Cap of Mars 2007-2012". This talk will include amateur images as well as spacecraft measurements. Comparisons will be made for the years 1990-2012. Also the 2014 apparition will be discussed with an emphasis on Mars related projects that people can participate in. Dr. Schmude always presents lively and informative talks!

### Our Speaker:

Our speaker will be Dr. Richard Schmude. He received his Ph.D. in Physical Chemistry from Texas A & M University in 1994. He teaches Science at Gordon State College. Dr. Schmude is



*Continued on page 2*

## The 2013 Peach State Star Gaze!

**Late News!! Our keynote speaker will be NASA astronaut Dr. Donald Pettit.** Dr. Pettit is a veteran of a Space Shuttle flight and two long duration stays on the International Space Station. More information will be upcoming on Dr. Pettit and other speakers and programs.

The next Peach State Star Gaze is coming soon! This will be the 20th anniversary Peach State and will again be held at the Deerlick Astronomy Village near Sharon, GA, and run from Sunday, September 29 to Sunday, October 6 (new moon is October 4). DAV has an 11-acre field that has room for RVs, campers, and tents. Limited power is available on the field. Full rest rooms with showers are available along with a 40' x 40' pavilion and gas BBQ grill. This year Micki's Kitchen returns to provide us with coffee, refreshments and meals (and brownies!). The Atlanta Astronomy Club's 24" telescope will be set up on the field and AAC's clubhouse will be open. We will have speakers, workshops, and vendors. Please visit us at [AtlantaAstronomy.org/pssg/](http://AtlantaAstronomy.org/pssg/) for details and registration.



*The Deerlick Astronomy Village, located about 100 miles east of Atlanta and 50 miles west of Augusta, has some of the darkest skies in the state.*



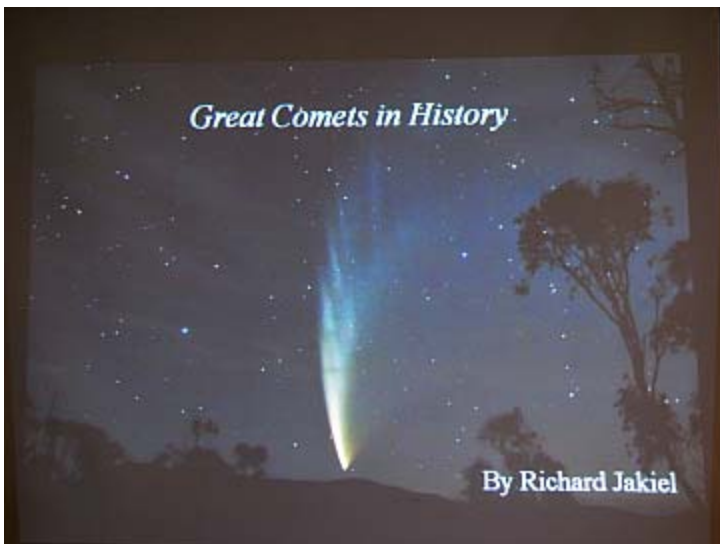
*The AAC field at the DAV during the 2010 PSSG - Photo by Tom Faber.*

## June AAC Meeting

Photos by Tom Faber unless noted.

The June meeting of the Atlanta Astronomy Club was held on Friday, June 21 starting at 8PM at the Atlanta Freethought Society building. There were 22 members and several guests present. Our speaker for the evening was AAC President Richard Jakiel (photo below). Rich presented a talk about some of the great comets in history (photo bottom). After Rich's talk club officers presented reports on the club's activities and upcoming events. Peter Macumber gave an update on the next Peach State Star Gaze (the 20th anniversary PSSG) to be held September 29 to October 6. Peter announced that the keynote speaker will be NASA astronaut Dr. Donald Pettit. Ken Poshedly (photo right) gave an update on the upcoming Astronomical League convention.

For the second month in a row we had to postpone the club elections since there were only 22 members present. The club's bylaws require at least 25 members be present for elections, so the elections were deferred until the July meeting. Members please try to attend the July meeting so we can hold elections.



*Continued from page 1*

the assistant Mars coordinator and the Coordinator of the remote planets and Jupiter section of the Association of Lunar and Planetary Observers. He made his first Mars drawing in 1984.

### Upcoming AAC Meetings

Our meetings will usually be held on the 3rd Friday of the month. Future meeting dates are Aug 17 (Saturday), Sept 20th, Oct 18th, Nov 15th, Dec 14 for the December meeting and Holiday potluck dinner. Locations TBA.

### Future Programs:

Future programs:

In order to keep our programs interesting and relevant for everyone from beginners to old pro's I need your help. Finding topics of interest to our members and speaker to do the programs is always a challenge. I am including a list of ideas I have and would like your input of additional program ideas. If you would like to do a program or know someone who would be a good speaker please let me know.

You can contact me at: [programs@atlantaastronomy.org](mailto:programs@atlantaastronomy.org) Thanks, Mark Banks

1. The Drake equation updated with the latest information on exoplanets.
2. Exobiology: Life as we know it and what else may be out there.
3. Near earth objects: Comets, Asteroids and all that other stuff out there.
4. The electromagnetic spectrum: How we use it to explore what's out there.
5. Star life cycles: Use the H.R. Diagram to explore the life & death of stars.
6. Spectroscopic analysis: How we use it to explore the universe.
7. Radio Astronomy: What we can learn from the radio part of the spectrum.
8. Science fiction Vs. Fact: What fiction has become true and what the future holds.
9. Atmospheres: What we can learn by observing weather on other planets.
10. Earth observations: How NASA, ESA, JAXA & others observe Earth.
11. Solar observing: What we know about our home star & would like to know.
12. A biographical program on any famous Astronomer / Scientist.

# Charlie Elliott Chapter Outreach

By Theo Ramakers, Outreach Coordinator

<http://ceastronomy.org/tramakers>

June is the month where we typically have no school events, but the scouts become active. So Charlie Elliott Astronomy did events on 4 days in June, three of them being full day events, helping scouts to earn their Astronomy Belt Loops. An overview sheet prepared for the events gives each scout the opportunity to review what we discussed when they are back home in preparation for the test. In addition, they learned how telescopes work and built one on a stick. They all setup an equatorial mount in teams of 2 after being explained to how and why it needs to be this way. A one evening event for Pack 724 in Conyers in the beginning of the month was followed by a one day event for the scouts of the SW Atlanta district and a two day event for the scouts of Fayette County, which was a repeat of what we did two years ago. Great to have the support of members who have the time to share their knowledge with the scouts. Thanks Marie, Steve, Frank and Theo. One additional event for the Lutheran Church in Buckhead had to be cancelled because of the weather. But we will find another day to do this. :-). Thanks Annette and Pierre for setting this up. These events conclude the 45 events Charlie Elliott Astronomy did for schools and civic organizations in the first half of 2013!! A great effort for all who have participated. Thanks for being part of this and we hope that the second half of 2013 will be as successful as the first.



# Saturn by Dan Llewellyn

Taken at Deerlick Astronomy Village on April 30, 2013. C-14, Zeiss barlow, Point Grey Flea 3 Color Camera (Sony ICX 618 chip), stack of approx 1,600 frames.



## ALCon 2013 Schedule

by Ken Poshedly

Here is the slightly revised schedule of presentations at the upcoming ALCon 2013 at

the Fernbank Science Center. I've built morning and afternoon bathroom breaks into the schedule.

Wednesday, July 24

- 8:30 a.m. – Official opening of ALCon 2013; check-in station opens for arrivals and begins distribution of registration materials at the FernbankScienceCenter.
- 9 a.m. – Brief welcoming remarks by representatives of the Astronomical League, the Atlanta Astronomy Club, the Assn of Lunar & Planetary Observers and the Fernbank Science Center.
- 9:15 a.m. – Mike Reynolds, ALPO Eclipse Section coordinator – “The Chelyabinsk Meteorite Fall”.
- 9:45 a.m. – Howard Eskildsen, Florida astronomer and astrophotographer – “Concentric Lunar Craters – Part 1”.
- 10:15 – 10:30 a.m. – Break.
- 10:30 a.m. – Howard Eskildsen, Florida astronomer and astrophotographer – “Concentric Lunar Craters – Part 2”.
- 11 a.m. – John Westfall, ALPO Galilean Satellites Eclipses program coordinator – “Three Jupiter Years of the ALPO Galilean Satellite Eclipse Timing Program”.
- 11:30 a.m. – Mike Reynolds, ALPO Eclipse Section coordinator – “Eclipses 2012 and Beyond”.
- Noon – 1:15 p.m. – Prepaid boxed lunches at the FernbankScienceCenter; NAMETAG REQUIRED.
- 1:15 p.m. – Tom Crowley, Georgia astronomer – “The Interstellar Medium (ISM). What It Is, How It’s Replenished, Measured and So Much More”.
- 1:45 p.m. – Dan Llewellyn, Atlanta Astronomy Club member and astrophotographer – “High Resolution Planetary Imaging with a Color Camera (OSC). You think mono & filters is the only way to go for hi-res planetary? Think Again!”
- 2:15 p.m. – Don Parker, ALPO member and noted astrophotographer – “There’s a Great Future in Nostalgia, Part 1”.
- 2:45 – 3 p.m. – Break.
- 3 p.m. – Don Parker, ALPO member and noted astrophotographer – “There’s a Great Future in Nostalgia, Part 2”.
- 3:30 p.m. – Ted Blank, Intl. Occultation Timing Assn – “Occultation Timing and IOTA’s Pro-Am Efforts”.

- 4 p.m. – Rich Jakiel, Atlanta Astronomy Club member and astrophotographer – “High Resolution Lunar Imaging”.
- 4:30 p.m. – Meet and chat with the speakers, then depart; the Fernbank Science Center closes for the evening at 5 p.m. – NO admittance after this time.

Thursday, July 25:

- 8:30 a.m. – Check-in station opens for arrivals and continues distribution of registration materials at the FernbankScienceCenter.
- 9 a.m. – Richard Schmude, ALPO Remote Planets Section coordinator – “The Remote Planets Uranus and Neptune”.
- 9:30 a.m. – Julius Benton, ALPO Saturn Section coordinator – “The Planet Saturn: ALPO Observations and Programs”.
- 10 a.m. – Matthew Will, ALPO membership secretary & treasurer – “Is the ALPO Still Relevant?”
- 10:30 – 10:45 a.m. – Break.
- 10:45 a.m. – Richard Schmude, assistant ALPO Mars Section coordinator (photometry and polarimetry) – “The Polar Caps of Mars; 2007 – 2012”.
- 11:15 a.m. – Steve Ramsden, Georgia solar astronomer – “Community Outreach Activities for Local Astronomy Clubs”
- 11:45 a.m. – Noon – Meet and chat with the speakers.
- Noon – 1:15 p.m. – Prepaid boxed lunches at the FernbankScienceCenter; NAMETAG REQUIRED.
- 1:15 p.m. – Julius Benton, ALPO Saturn Section coordinator – “The Planet Venus: ALPO Observations and Programs”
- 1:45 p.m. – Dan Llewellyn, Atlanta Astronomy Club member and astrophotographer – “Best Capture and Processing Techniques for Color and Mono Cameras. Getting every ounce of resolution out of your data.”
- 2:15 p.m. – Pixie Bruner, Atlanta Astronomy Club member – “Queen Seondeok of Korea and the Cheomseongdae Observatory”
- 2:45 – 3 p.m. – Break.
- 3 p.m. – Aaron Reid, member, Western Colorado Astronomy Club – “Telescope Mechanical Maintenance and Lens Cleaning”
- 3:30 p.m. – Pixie Bruner, Atlanta Astronomy Club member – “A Brief Survey of “Women’s Historical Contributions to Astronomy”
- 4 p.m. – Steve Ramsden, Georgia solar astronomer – OUTDOOR WORKSHOP – “How to Correctly Tune and Use Your Own H-Alpha Solar Scope”
- 4:30 p.m. – Meet and chat with the speakers, then depart; the Fernbank Science Center closes for the evening at 5 p.m. – NO admittance after this time.
- 6 p.m. – Depart via carpool or private transportation from the Emory Conference Center Hotel for free optional side trip to the DeerlickAstronomyVillage near Washington, Georgia. See directions and map in this booklet. No shuttle service provided. Return time by personal preference.
- 9 – 10:30 p.m. (weather-permitting) – Free public observing at the Ralph Buice Observatory at the FernbankScienceCenter.

Friday, July 26

- 8:30 a.m. – Check-in station opens for arrivals and continues distribution of registration materials at the FernbankScienceCenter.
- 9 a.m. – Noon – (Planetarium theater) Astronomical League business meeting and presentation of the AL’s “Youth in Astronomy Award”.
- 9 a.m. – Noon – (Special meeting room) Assn of Lunar & Planetary Observers board meeting.
- Noon to 1:15 – Prepaid boxed lunches at the Fernbank Science Center; NAMETAG REQUIRED.
- 1:15 p.m. – Dr. Hal McAlister, Regents’ Professor, Georgia State University, director, Center for High Angular Resolution Astronomy, Georgia

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# The Astronomical League is coming to Atlanta!



## ALCON 2013 ATLANTA

## Summer Skies, Southern Hospitality July 24-27, 2013 • Atlanta, Georgia

**Location:** Fernbank Science Center

**Host Organizations:** Atlanta Astronomy Club, Astronomical League

**Partnering Organization:** Association of Lunar and Planetary Observers (ALPO) • This year, ALPO presentations will be mainstreamed with League talks



### Accommodations...

Emory Conference Center Hotel

- Shuttle service between hotel and presentations at Fernbank Science Center and Agnes Scott College Bradley Observatory for those without transportation
- Be sure to ask for the Astronomical League rate. 1-800-933-6679, [emoryconferencecenter.com/index.cfm](http://emoryconferencecenter.com/index.cfm)
- Saturday night's Awards Banquet



### Primary Venue: Fernbank Science Center

- Talks held in 70 foot planetarium
- Evening shows with Zeiss Mark V projector coupled with various special effects projector
- 0.9 meter Cassegrain reflector in the Ralph Buice Memorial Observatory
- Vendor displays



### Atlanta Attractions

- World of Coca-Cola
- Georgia Aquarium
- Zoo Atlanta
- Inside CNN
- Atlanta Botanical Garden
- Olympic Games venues



### Conference Speakers...

**Chris Hetlage**, Deerlick Astronomy Village, a distinctive dark sky community.

**Tim Puckett**, Supernovae Research



### Saturday night's Awards Banquet Keynote Speaker:

**Charles Wood**, Sky and Telescope Lunar 100 creator

### Star BQ, Friday, July 26, Agnes Scott College Bradley Observatory:

Bradley Observatory Tour; 30-inch Beck Cassegrain; Planetarium Presentation

### Other ALCon 2013 Excursions

- Atlanta Astronomy Club's Villa Rica Observatory; Full size roll-off roof observatory with 20-inch Newtonian reflector
- Atlanta Astronomy Club's observing site at the Deerlick Astronomy Village



Check [www.ALCon2013.astroleague.org](http://www.ALCon2013.astroleague.org) for more information as it becomes available.



# The Astronomical League is coming to Atlanta!

## ALCon 2013 Registration Information—July 24-27, 2013

Mail completed form with your check made payable to ALCon 2013 to:  
**Astronomical League, ALCon 2013 Registration,**  
**9201 Ward Parkway, Suite 100, Kansas City, MO 64114**

Please use one form for each attendee. One check is acceptable for your group. You may also register online at [www.alcon2013.astroleague.org](http://www.alcon2013.astroleague.org) and make remittance with PayPal.

First Name:  Last Name:

Name and Title for ID badge:

E-mail Address:

Mailing Address:

Address, Line 2 (if needed):

City, State or Province and ZIP or Postal Code:

Country:  ALPO Member?

Daytime Phone Number:  Alternate Phone Number:

Astronomical Club, Society, or Organization Affiliation:

You may make your room reservations at the Emory Conference Center Hotel by calling 800-933-6679. Be sure to ask for the Astronomical League ALCon 2013 special rate before the room block is fully booked. Free parking and free Internet.

The organizers reserve the right to make such changes to the program and speakers as may be necessary due to conditions outside of their control.

### Early Registration Fees (after July 8, add \$20)

Please check each item you wish to include in your registration and enter the amount in the box on right.

	Amount
Individual 2 or 3 day registration: \$50 .....	<input type="text"/>
Single day registration: \$35 .....	<input type="text"/>
Couples 2 or 3 day registration: \$75 .....	<input type="text"/>
Students: \$20 .....	<input type="text"/>
Children younger than 15 years of age accompanying adults registering: free	
Shuttle bus from Emory Conference Center Hotel and the Fernbank Science Center (for those needing transportation), 8:15 a.m. to 11:15 a.m. and 2 p.m. to 5 p.m.	
\$20 Wednesday <input type="checkbox"/> \$20 Thursday <input type="checkbox"/> \$20 Friday <input type="checkbox"/> .....	<input type="text"/>
<b>Boxed Lunches:</b> Choice of Ham and Swiss, Turkey and Cheddar, or Mediterranean Veggie sandwiches with a pickle spear, a half-sized Jumbo Cookie, chips, and water bottle: \$9. Check one for each day. Wednesday: Ham and Swiss <input type="checkbox"/> ; Turkey and Cheddar <input type="checkbox"/> ; or Mediterranean Veggie <input type="checkbox"/> Thursday: Ham and Swiss <input type="checkbox"/> ; Turkey and Cheddar <input type="checkbox"/> ; or Mediterranean Veggie <input type="checkbox"/> Friday: Ham and Swiss <input type="checkbox"/> ; Turkey and Cheddar <input type="checkbox"/> ; or Mediterranean Veggie <input type="checkbox"/> .....	<input type="text"/>
<b>Friday night Star BQ (Please select one)</b> Pan Roasted Chicken Breast with mushroom ragout \$32 <input type="checkbox"/> Tender Beef Brisket with a caramelized onion jus \$37 <input type="checkbox"/> Grilled Eggplant Steak with chick peas and feta cheese \$32 <input type="checkbox"/> .....	<input type="text"/>
Shuttle from Emory Conference Center Hotel to Star BQ at Agnes Scott College Bradley Observatory and return: \$20 .....	<input type="text"/>
<b>Saturday night banquet:</b> 1. Vegetarian: Gnocchi with pesto cream, olive oil poached tomatoes, grilled zucchini and shitake mushrooms: \$45 <input type="checkbox"/> 2. Pan seared sage and garlic infused chicken breast served with red onion marmalade on creamy polenta: \$45 <input type="checkbox"/> 3. Grilled bourbon glazed boneless pork loin with mustard braised greens and smoked cheddar mashed potatoes: \$45 <input type="checkbox"/> Please select one .....	<input type="text"/>
<b>ALCon merchandise</b> Silk-screened T-shirt, White <input type="checkbox"/> ; or Royal Blue <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> XL <input type="checkbox"/> XXL <input type="checkbox"/> XXXL <input type="checkbox"/> : \$20 Embroidered polo shirt, White <input type="checkbox"/> ; or Royal Blue <input type="checkbox"/> Mens: S <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> XL <input type="checkbox"/> XXL <input type="checkbox"/> XXXL <input type="checkbox"/> : \$25 Womens: S <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> XL <input type="checkbox"/> XXL <input type="checkbox"/> XXXL <input type="checkbox"/> : \$25 .....	<input type="text"/>
Help the League help amateur astronomy by making a tax deductible donation .....	<input type="text"/>
<b>Total Enclosed:</b>	<input type="text"/>



Continued from page 4

State University, director & chief executive officer, Mount Wilson Institute, Pasadena, California – “The Center for High Angular Resolution Astronomy (CHARA)”

· 1:45 p.m. – Tim Puckett, Georgia astronomer, sponsor & primary investigator of the Puckett Observatory World Supernova Search – “The Puckett Observatory and the Continuing Search for Supernovas”

· 2:15 p.m. – Christi Whitworth, education director, the Pisgah Astronomical Research Institute (PARI) – “PARI Resources for Educational Outreach”

· 2:45 – 3 p.m. – Break.

· 3 p.m. – Chris Hetlage, Atlanta Astronomy Club member and representative of the DAV – “The Deerlick Astronomy Village of Georgia”

· 3:30 p.m. – Doug Hrabe, director, the Fernbank Science Center.

· 4 p.m. – Kelly Beatty, senior contributing editor, Sky & Telescope magazine.

· 4:30 – Meet and chat with the speakers, depart; the Fernbank Science Center closes for the evening at 5 p.m. – NO admittance after this time.

· 6 p.m. – (For those whose registration includes this option) Depart from the Emory Conference Center Hotel for catered “Star BQ” dinner at the Agnes Scott Observatory Bradley Observatory and tour of the facility; shuttle service provided only for those whose registration included this option.

· 9 – 10:30 p.m. (weather-permitting) – For those not attending the Agnes Scott College dinner, free public observing at the Ralph Buice Observatory at the FernbankScienceCenter; no shuttle service.

Saturday, July 27

· 11 a.m. – Depart via carpool or private transportation from the Emory Conference Center Hotel for free optional side trip to the William F. Barber Observatory at Villa Rica, Georgia. See directions and map in this booklet. No shuttle service provided. Return by midafternoon.

· 6 p.m. – (Emory Conference Center Hotel) Astronomical League Awards Banquet featuring presentations by the Atlanta Astronomy Club, the Assn of Lunar & Planetary Observers, and the Astronomical League, followed by keynote speaker Mr. Charles Wood. NAMETAG REQUIRED FOR ADMITTANCE.

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## New Feature on the AAC Web Site

The Beginner’s Guide to Astronomy at: [http://atlantaastronomy.org/?page\\_id=778](http://atlantaastronomy.org/?page_id=778)

The **Atlanta Astronomy Club, Inc.**, one of the South’s largest and oldest astronomical society, meets at **8:00 P.M.** on the **3rd Friday of each month** in the Parlor Room - Hitson Center in Sandy Springs, or occasionally at other locations or times. Membership fees are **\$30 (\$42)** for a family or single person membership. College Students membership fee is **\$15 (\$27)**. These fees are for a one year membership (\$12 per year extra charge to receive a printed *Focal Point* by mail).

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.

## Atlanta Astronomy Club Online

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 and other information. <http://www.atlantaastronomy.org> You can also follow the AAC on Facebook by joining the AAC group, and on Twitter at <http://twitter.com/atlastro>.

### AAC Officers and Contacts

**President:** Richard Jakiel [President@AtlantaAstronomy.org](mailto:President@AtlantaAstronomy.org)

**Program Chair:** Mark Banks [Programs@AtlantaAstronomy.org](mailto:Programs@AtlantaAstronomy.org)

**Observing Chair/BoD Chair:** Daniel Herron  
[Observing@AtlantaAstronomy.org](mailto:Observing@AtlantaAstronomy.org)

**Corresponding Secretary:** Tom Faber  
[Focalpoint@AtlantaAstronomy.org](mailto:Focalpoint@AtlantaAstronomy.org)

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

**Recording Secretary:** Pixie Bruner  
[Secretary@AtlantaAstronomy.org](mailto:Secretary@AtlantaAstronomy.org)

**Board Chair:** Daniel Herron, [Observing@AtlantaAstronomy.org](mailto:Observing@AtlantaAstronomy.org)

**Board:** Brigitte Fessele, Contact info TBA

**Board:** David Lumpkin, Contact info TBA

**Board:** Steve Phillips [sandsphillips@att.net](mailto:sandsphillips@att.net)

**ALCor:** Open - [President@AtlantaAstronomy.org](mailto:President@AtlantaAstronomy.org)

**Elliott Chapter Director:** Larry Owens [director@ceastronomy.org](mailto:director@ceastronomy.org)

**Elliott Observing Supervisor:** John Towne  
[observing@ceastronomy.org](mailto:observing@ceastronomy.org)

**Elliott Recording Secretary:** Marie Lott [mtlott@comcast.net](mailto:mtlott@comcast.net)

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

**Elliott Webmaster:** Theo Ramakers 770-788-0843  
[webmaster@CEastronomy.org](mailto:webmaster@CEastronomy.org)

**Elliott Outreach Coordinator:** Theo Ramakers 770-788-0843  
[outreach@ceastronomy.org](mailto:outreach@ceastronomy.org)

**Georgia Astronomy in State Parks:** Sharon Carruthers  
[Treasurer@AtlantaAstronomy.org](mailto:Treasurer@AtlantaAstronomy.org)

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

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

**Sidewalk Astronomy:** Brad Isley  
[sidewalkastronomy@AtlantaAstronomy.org](mailto:sidewalkastronomy@AtlantaAstronomy.org)

**Light Tresspass:** Open - Contact Mark Banks if you would like to volunteer for this position

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

**AAC Webmaster:** Daniel Herron, [Observing@AtlantaAstronomy.org](mailto:Observing@AtlantaAstronomy.org)

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

### AAC Events are listed in **BOLD**

July 1st, Monday: Pluto at opposition.

July 5th, Friday: Earth at Aphelion.

July 8th, Monday: New Moon.

July 9th, Tuesday: Mercury at Inferior Conjunction.

July 11th, Thursday: **Woodruff Boy Scout Summer Camp session** - Contact Sharon Carruthers.

July 13th, Saturday: **CE Chapter Meeting, 7 PM.**

July 15th, Monday: Moon First Quarter.

July 18th, Thursday: **Woodruff Boy Scout Summer Camp session** - Contact Sharon Carruthers.

July 19th, Friday: **AAC Meeting, 8PM at AFS.**

July 22nd, Monday: Full Moon.

July 24th (Wednesday)-27th (Saturday): Astronomical League Convention in Atlanta.

July 25th, Thursday: **Woodruff Boy Scout Summer Camp session (Final Night).**

July 29th, Monday: Moon Last Quarter.

July 30th, Tuesday: Mercury at Greatest Western Elongation. Delta Aquarid Meteors.

July 31st, Wednesday: Morning grouping of Moon, Mercury, Mars, & Jupiter.

Aug 3rd, Saturday: Moon near Jupiter morning.

Aug 5th, Monday: Very thin crescent moon in line with Mercury, Pollux, & Castor.

Aug 6th, Tuesday: New Moon.

Aug 9th, Friday: Moon near Venus evening.

Aug 10th, Saturday: **CE Chapter Meeting.**

Aug 14th, Wednesday: Moon First Quarter.

Aug 17th, Saturday: **AAC Meeting & Potluck Dinner, 4PM at AFS.**

Aug 20th, Tuesday: Full Moon.

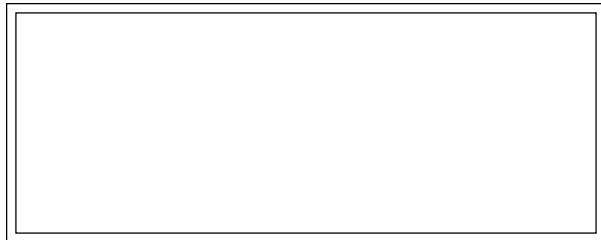
**For more event listings see the calendar at [www.atlantaastronomy.org](http://www.atlantaastronomy.org)**

### 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) .

### 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 PDF's are okay. You can submit articles anytime up to the deadline. **The deadline for August is Friday, July 26th. Submissions after the deadline will go in the following issue.**



FIRST CLASS



[www.beclage.com](http://www.beclage.com)



*The Focal Point*

Newsletter of The Atlanta Astronomy Club, Inc.

FROM:

Tom Faber

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