

# Astrofiles

## Auburn Astronomical Society E-Newsletter July, 2014

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### Events Calendar

We'll hold our **monthly meeting** on **Friday, July 11**, at **7:45pm**, in [room 215 of Davis Hall, the Aerospace Engineering Building](#), on the [main campus of Auburn University](#). [AAS members](#) will elect our new president.

Our next dark-sky **star party** is scheduled for **July 26**, at our [new dark sky site](#). Sunset will be at 07:47pm and moonset at 10:10pm.

July 05, First quarter moon

July 06, Waxing gibbous moon will pass just north of red Mars on

July 08, Moon just south of Saturn

July 11, Monthly meeting at **7:45pm**, in [room 215 of Davis Hall](#)

July 12, Full Moon, the Hay or Thunder Moon

July 19, Last quarter moon rises about midnight

July 26, Monthly Star Party at our [dark sky site](#). Sunset at 7:47pm

August 08, Monthly meeting at **7:45pm**, in [room 215 of Davis Hall](#)

### AAS Election

We will be holding club elections for president at the July meeting. Anyone wishing to serve in this position should contact one of the club's officers before the July meeting.

The plan is for this to be a written ballot [for [members only](#)].

Allen Screws-VP,AAS

### Member News

**Rodger Morrison:** I was unable to attend the star party (it was cloudy anyway). I suspect that the RTJ work will not happen very often through the summer, for weather reasons. I did have one good session, and there were a couple of dozen guests participating. I had two scopes set up and most of the visitors were kids, but everyone got a great look at Jupiter, Saturn, Mars, and the Moon. I am scheduled through the end of August and possibly through September.

Sorry, but I have little else to report. The humidity has been unbearable in the evenings, and the recent rains are keeping the dew points extremely high. I have set up my rigs twice in June and had dew forming on everything even before I was set up and ready to observe.

**John Wingard:** Looks like my Christmas came in July this year. I still have to get the finder zeroed in and I might try it out tonight on the moon and a few other things if it's clear. Of course, new telescopes seem to ALWAYS attract clouds! [John's new scope is a Celestron S11720 Sky-Watcher 10-Inch Dobsonian Telescope. Congratulations, John!]

**Phil Hosey:** M16, The Eagle Nebula approximation of natural color using narrowband filters. Since the weather is so bad lately I'm going back and re-processing some old data. Here's a narrowband image of M16 taken nearly two years ago. I used pixel math to combine Ha, OIII and SII in specific ratios for red, green and blue. The recipe used attempts to replicate natural colors, as opposed to the more common Hubble palette that is usually done with narrowband data. <http://astrob.in/full/22478/B/>

And,

I finally got a few hours over the last couple of nights before the moon rose to grab some photons. Here is M63, The Sunflower Galaxy, imaged with my 130mm APO refractor and Starlight Xpress Trius SX-694 CCD camera. This is a standard LRGB combine of about 3 hours worth of data. <http://astrob.in/102736/0/> M63 Sunflower Galaxy.

## Web Links

From **John Wingard:** via **Pamela Swfc England**

Staring at the sun: Backyard astronomer captures the [beauty of the solar system](http://www.dailymail.co.uk/news/article-2180817/Staring-sun-Backyard-astronomer-captures-beauty-solar-using-webcam-home-telescope.html#ixzz35aquoQE4) using only a webcam and a home telescope. <<http://www.dailymail.co.uk/news/article-2180817/Staring-sun-Backyard-astronomer-captures-beauty-solar-using-webcam-home-telescope.html#ixzz35aquoQE4>>

And,

First light with the new scope...I was looking at the moon Saturday night and decided to put my video camera at prime focus to see what I could get. This is an very compressed [video clip](#) to make it small enough to upload to FB so some of the resolution is lost, and Facebook may reduce it some more. As you can see, the seeing wasn't too steady at the time.

And,

Here's an interesting web site that features a "[telescope simulator](http://telescope-simulator.com/telescope-calculator/)." You enter the various parameters of your particular telescope...focal length, aperture, eyepieces, etc. and it gives you a simulated view of what to expect when viewing the moon, several of the planets, and the Pleiades. <http://telescope-simulator.com/telescope-calculator/>

**Secrets of the Sun / Nova HD 1080p**

<http://www.youtube.com/watch?v=wisdfag6WlQ&sns=em>

**Neil deGrasse Tyson on Conan**

<http://www.youtube.com/watch?v=knBtUxFwvew&sns=em>

**To Explore Deep Space, We Need Better Spacesuits**

<http://www.youtube.com/watch?v=0kLa5s5eO5k&sns=em>

**Hubble: Timelapse of V838 Monocerotis (2002-2006)**

<http://www.youtube.com/watch?v=U1fvMSS9cps>

**The Sokol suit and the "seal that keeps you alive"**

<http://www.youtube.com/watch?v=2gaFXZWhp4k&sns=em>

From **Larry Owsley**:

Elon Musk Unveils Spacecraft To Ferry Astronauts - <http://huff.to/1mxerVz>  
Clumping' Study Pokes Holes In Black Hole Theory - <http://huff.to/1mJe5LB>  
Citizen Scientists Make Contact With Old Space Probe - <http://huff.to/1l0qexl>  
Google Said To Be Building Its Own Fleet Of Satellites - <http://huff.to/1mHLdmU>  
Big Bang Finding Called Into Question - <http://huff.to/1mRIHus>  
Google Said To Be Building Its Own Fleet Of Satellites - <http://huff.to/1mHLdmU>  
How Violent Collision Gave Nearby Galaxy Its Arms - <http://huff.to/1mRHtiP>  
Massive 'Fuse' Sparks Solar Eruption - <http://huff.to/1ldJ1pf>  
Space Telescope Takes Its Most Awesome Photo Ever - <http://huff.to/1mPqgXw>  
Scientists Overseas Report Major Teleportation Advance - <http://huff.to/1kP5Dfj>  
Bizarre 'Hybrid' Discovered, Confirming Prediction - <http://huff.to/1li0Pzz>  
Moon Mystery May Finally Have Been Solved - <http://huff.to/1lnAnV3>  
Our Earth May Be Older Than We Thought - <http://huff.to/1lpUrGu>  
Sun-like Star Gets Set To Eat Its Own - <http://huff.to/1ln4UST>  
Ever Wonder Just What's Out There? - <http://huff.to/1kLxKp>  
'Beast' Spotted Whizzing By Earth In Amazing Detail - <http://huff.to/1lv0z0f>  
Huge Diamond-Studded Crater Linked To Mass Extinction - <http://huff.to/1lyxdOl>  
Here's What A Cosmic Tug-Of-War Is Doing To The Moon - <http://huff.to/1lCUoqU>  
Universe's Expansion Calculated With Greater Accuracy - <http://huff.to/1lDhOMS>  
Mysterious Object Spotted On Distant Moon - <http://huff.to/1lKHFm4>  
Higgs Physics Suggests The Universe Shouldn't Exist - <http://huff.to/1l6AKzI>  
Mountaintop Needs To Blow Up For New Telescope - <http://huff.to/1kRjzBy>  
Curiosity Celebrates Milestone On Mars - <http://huff.to/1l7xLGQ>  
Have Scientists Found Dark Matter? - <http://huff.to/1lbnfhI>  
How Did Earth Get Its Moon? - <http://huff.to/1l6H89F>  
This Dead Star May Be A Giant Diamond - <http://huff.to/1lPvbK2>  
Strange Waves Yield Big Surprise About Sun - <http://huff.to/1qqItA9>  
NASA Launches Carbon Satellite - <http://huff.to/1qxxDIB>  
Why Haven't Humans Discovered Intelligent Life? - <http://huff.to/1xwIUe2>  
Flying Saucer Mission Brings Us A Step Closer To Mars - <http://huff.to/1qmkdio>  
Huge Black Hole At Galaxy's Heart Is Behaving Very Oddly - <http://huff.to/1ldaKlO>

Hope to see everyone at the meeting,

Russell