

## Paramount ME-II Telescope Mount Update



Comet Lovejoy (C/2014 Q2)

Photo Credit: Scott Conner, Dave Kube and Ted Ubelhor

On January 18<sup>th</sup>, 2015 Scott Conner, Ted Ubelor and myself gave 1<sup>st</sup> light to our new Paramount ME-II. The above photo was taken through our C14. Scott used his DSI ccd camera with Nebulosity and Stacked 150 second exposures with darks. More Photos on Page 5.

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The EAS newsletter, Observer, is published monthly. Anyone wishing to contribute articles or photos may mail them to the club's PO Box: EAS, PO Box 3474, Evansville, IN 47733, or e-mail them to the editor at:

[dasiceman@yahoo.com](mailto:dasiceman@yahoo.com)

The **Evansville Astronomical Society (EAS)** is a non-profit organization fully incorporated in the state of Indiana. It has, as its primary goal, the advancement of amateur astronomy. Founded in 1952, the society seeks to:

- 1... maintain adequate facilities for its members and the public in order to extensively study the skies and
- 2... promote an educational program for those who wish to learn more about the science of Astronomy.

Meetings are held the third Friday of each month, except June, when the annual EAS picnic is held. The society also sponsors monthly Open House events during the warmer seasons that afford the public an opportunity to tour the observatory.

**EAS 2014 Officers and Contacts**

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For more information about the EAS or directions to the Observatory, please visit the club's web page:

[www.evansvilleastro.org](http://www.evansvilleastro.org)



## Local Events and Information

### EAS Schedule Update:

Please remember the regular monthly meeting for February will be held at the Observatory 7:30pm on Friday, February 20<sup>th</sup>, 2015.

### EAS Update:

There will be a Spring Cleanup at the Observatory on Saturday, March 7<sup>th</sup>, 2015 beginning at 12:00 Noon. This will be getting the Observatory ready for our 1<sup>st</sup> PSW next week.

### EAS Update:

Please Note Daylight Savings Time begins on Sunday Morning March 8<sup>th</sup>, 2015 2:00 am.

### EAS Update:

Please Note that we have our 1<sup>st</sup> Public Star Watch at the Museum on Saturday, March 14<sup>th</sup>, 2015 @ 7:30pm. This will be our 1<sup>st</sup> PSW with the new mount.

### EAS Update:

Please remember the regular monthly meeting for March will be held at the Downtown Museum on Friday, March 20<sup>th</sup>, 2015.

### EAS Update:

Please note that there are a few Astronomy Wall Calendars still available. Contact our Treasurer Ted Ubelhor if Interested.

### Telescopes and accessories for sale...

As mentioned in last month's issue, Mike Borman still has some excellent telescope equipment and imaging accessories for sale. Some of the gear has already been sold. If interested, go to Mike's web page. Here is the link: <http://www.mborman.org/forsale.htm>

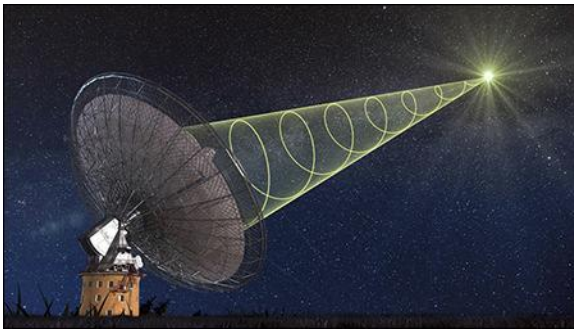
***Will the real monster black hole please standup?***



NASA/JPL-Caltech/GSFC

A new high-energy X-ray image from NASA's Nuclear Spectroscopic Telescope Array (NuSTAR) has pinpointed the true monster of a galactic mashup. The image shows two colliding galaxies, collectively called Arp 299, located 134 million light-years away. Each of the galaxies has a supermassive black hole at its heart. NuSTAR has revealed that the black hole located at the right of the pair is actively gorging on gas while its partner is either dormant or hidden under gas and dust. The findings are helping researchers understand how the merging of galaxies can trigger black holes to start feeding, an important step in the evolution of galaxies.

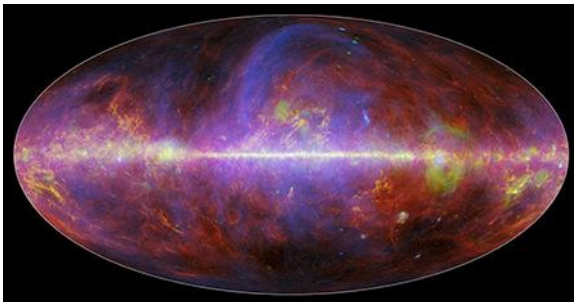
***Snapshot of cosmic burst of radio waves***



Swinburne Astronomy Productions

A strange phenomenon has been observed by astronomers right as it was happening — a “fast radio burst.” The eruption is described as an extremely short, sharp flash of radio waves from an unknown source in the universe. Over the past few years, astronomers have observed a new phenomenon, a brief burst of radio waves, lasting only a few milliseconds. It was first seen by chance in 2007 when astronomers went through archival data from the Parkes Radio Telescope in Eastern Australia. Since then they have seen six more such bursts in the Parkes telescope's data, and a seventh burst was found in the data from the Arecibo telescope in Puerto Rico. They were almost all discovered long after they had occurred, but then astronomers began to look specifically for them right as they happen.

***Planck mission explores the history of our universe***



ESA/NASA/JPL-Caltech

Hot gas, dust, and magnetic fields mingle in a colorful swirl in a new map of our Milky Way Galaxy. The image is part of a new and improved data set from Planck, a European Space Agency mission in which NASA played a key role. Planck spent more than four years observing relic radiation left over from the birth of our universe, called the cosmic microwave background. The space telescope is helping scientists better understand the history and fabric of our universe as well as our Milky Way. The new data are available publicly and now include observations made during the entire mission. The Planck team says these data are refining what we know about our universe, making more precise measurements of matter, including dark matter, and how it is clumped together. Other key properties of our universe also are measured with greater precision, putting theories of the cosmos to ever more stringent tests.

March 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7 Spring Cleanup 12:00 Noon
8 Daylight Savings Begins	9	10	11	12	13	14 PSW 7:30pm
15	16	17	18	19	20 Reg Meeting 7:30pm @ Museum	21
22	23	24	25	26	27	28
29	30	31				

Generated by [FreeHTMLCalendar.com](http://FreeHTMLCalendar.com) Copyright © 2011 John Dalbey.

**Up and Coming Events 2014**

**Regular Meeting – Friday, February 20<sup>th</sup>, 2015 @ 7:30pm @ Observatory**

**Spring Cleanup – Saturday, March 7<sup>th</sup>, @ 12:00 Noon @ Observatory**

**PSW – Saturday, March 14<sup>th</sup>, 2015 @ 7:30pm @ Observatory**

**Regular Meeting – Friday, March 20<sup>th</sup>, 2015 @ 7:30pm @ Downtown Museum**

**Moon Phases**

First Quarter	Full Moon	Third Quarter	New Moon
March 27 <sup>th</sup> , 2015	March 5 <sup>th</sup> , 2015	March 13 <sup>th</sup> , 2015	March 20 <sup>th</sup> , 2015

[Moon Phases courtesey of Time and Date.com](http://Time and Date.com)



*A Voice has been Silenced  
His memory will live on*



## ***Victor Lopez***

*May 28<sup>th</sup>, 1937 to February 13<sup>th</sup>, 2015*

*EAS will remember you and all that you have done.*

*Photo Courtesy of Scott Conner*

*1<sup>st</sup> Light Photos Continued*  
*All Photos Credit Scott Conner and Dave Kube*  
*Taken through Scott's 80mm Refractor*  
*1-21-2015*



Comet Lovejoy (C/2014 Q2)



M42



Horse Head

***EAS MEETING for January 16<sup>th</sup>, 2015  
Minutes/ Notes***

The meeting was called to order by President Scott Conner at 7:40pm. There were 15 members and 2 visitors present.

There was a motion to accept the minutes from the December 2014 meeting as published in the newsletter. That motion was seconded and approved unanimously.

Tony had our two visitors introduce themselves. They were..  
Mike Wathen & Kyle Kinder from the Occustock Music Festival in Lynnville Park.

Our treasurer Ted Ubelhor discussed our finances. The two outstanding items was a higher than usual heating bill, mostly due to the work on the new mount. He also mentioned we paid our highest yearly bill the Insurance bill which was \$1,184 only \$8 higher than last year.

Under Special Projects, Scott mentioned that the installation of the new mount was nearly complete. It is hoped it will be up and running without the club computer this Sunday. The computer will require more time to get set up. It is time to start talking about getting a new refractor to go on the mount.

Under Old business-

We had our annual EAS Christmas Party last month. The attendance was much lower than previous years, but we had a lot of goodies to give out. We had a good quiz given by Mike Borman. Dave Stephens will be the Quiz master for the December 2016 Quiz. Congratulations Dave!

Under New Business:

The EAS board meeting to set the schedule and take care of business for 2015 will be at Mike Borman's House on Sunday Feb 1<sup>st</sup> at 1:00pm.

We had a new member join the club. His name is Donald Chambliss. Welcome Donald!

The meeting was adjourned at around 8pm and was followed by the second half of the video "Seeing in The Dark"

Respectfully Submitted,  
Ken Harris