

**Astronomy Day @ the Museum
Saturday April 25th, 2015
11:00am – 9:45pm**



Photo Credit: Mitch Luman

National Astronomy Day is on Saturday, April 25 this year. As in years past, this event takes place from 11:00 a.m. – 4:00 p.m. & 7:00 p.m. – 9:45 p.m. at the Evansville Museum.

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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

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

President – Scott Conner
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Kent Brenton
Ken Harris

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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



Local Events and Information

EAS Schedule Update:

Please remember the regular monthly meeting for March will be held at the Downtown Museum on Friday, March 20th, 2015 @ 7:30pm. There will be a movie/ presentation before the meeting at 7:00 provided by Mitch.

EAS Update:

Please remember the regular monthly meeting for April will be held at the Observatory on Friday, April 17th, 2015 @ 7:30pm.

EAS Update:

Please Note that the National Astronomy Day @ the Museum will be held @ the Downtown Museum on Saturday, April 25th, 2015 from 11am to 9:45pm

EAS Update:

Please note that the EAS held a Spring Cleanup at the Observatory on Saturday, March 7th, 2015. We had a good turnout and accomplished a lot of indoor projects.

EAS Update:

Please note that we held our 1st PSW at the Observatory on Saturday, March 14th, 2015. We had 2 guest and we were able to use the new mount and view Jupiter through the thin clouds.

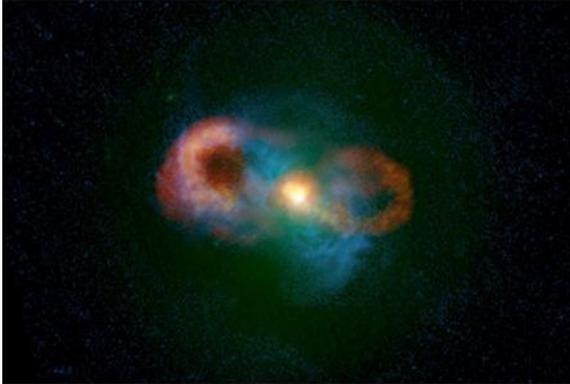
EAS Update:

Please note that the lock combinations have been changed and given to up to date paid memberships. There is also a new separate lock combination for the dome and library and will be given to those with scope training.

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>

The Very Large Array finds unexpected "storm" at galaxy's core.



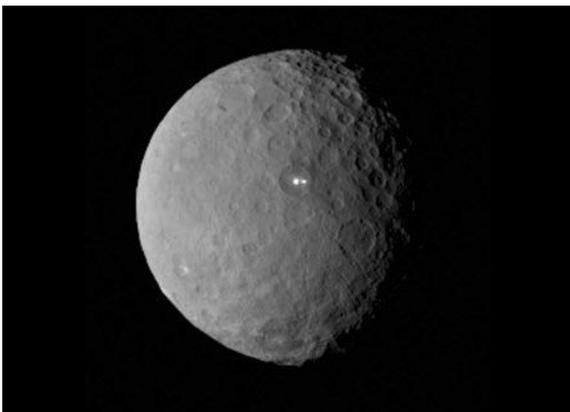
C.Harrison/A.Thomson/B.Saxton/NRAO/AUI/NSF/NASA

Dark matter guides growth of supermassive black holes.



NASA/CXC/M. Weiss

NASA spacecraft reaches historic dwarf planet Arrival.



NASA/JPL-Caltech/UCLA/MPS/DLR/IDA

Astronomers using the National Science Foundation's Very Large Array (VLA) found surprisingly energetic activity in what they otherwise considered a "boring" galaxy, and their discovery provides important insight on how supermassive black holes can have a catastrophic effect on the galaxies in which they reside. "It appears that a supermassive black hole is explosively heating and blasting around the gas in this galaxy and, as a result, is transforming it from an actively star-forming galaxy into one devoid of gas that can no longer form stars," said Chris Harrison from the Center for Extragalactic Astronomy at Durham University in the United Kingdom.

Every massive galaxy has a black hole at its center, and the heftier the galaxy, the bigger its black hole. But why are the two related? After all, the black hole is millions of times smaller and less massive than its home galaxy. A new study of football-shaped collections of stars called elliptical galaxies provides new insights into the connection between a galaxy and its black hole. It finds that the invisible hand of dark matter somehow influences black hole growth. This new research was designed to address a controversy in the field. Previous observations had found a relationship between the mass of the central black hole and the total mass of stars in elliptical galaxies. However, more recent studies have suggested a tight correlation between the masses of the black hole and the galaxy's dark matter halo. It wasn't clear which relationship dominated.

NASA's Dawn spacecraft has returned new images captured on approach to its historic orbit insertion at the dwarf planet Ceres. Dawn will be the first mission to successfully visit a dwarf planet when it enters orbit around Ceres on Friday, March 6. "Dawn is about to make history," said Robert Mase, project manager for the Dawn mission at NASA's Jet Propulsion Laboratory in Pasadena, California. "Our team is ready and eager to find out what Ceres has in store for us." Recent images show numerous craters and unusual bright spots that scientists believe tell how Ceres, the first object discovered in our solar system's asteroid belt, formed and whether its surface is changing. As the spacecraft spirals into closer and closer orbits around the dwarf planet, researchers will be looking for signs that these strange features are changing, which would suggest current geological activity.

April 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17 Reg Meeting 7:30pm	18
19	20	21	22	23	24	25 Astronomy Day @ Museum 11am - 9pm
26	27	28	29	30		

Up and Coming Events 2015

Regular Meeting – Friday, March 20th, 2015 @ 7:30pm @ Downtown Museum, Presentation @ 7:00

Regular Meeting – Friday, April 17th, @ 7:30pm @ Observatory

Astronomy Day – Saturday, April 25th, 2015 11:00am to 9:45pm @ Downtown Museum

Moon Phases

First Quarter	Full Moon	Third Quarter	New Moon
April 25 th , 2015	April 4 th , 2015	April 11 th , 2015	April 18 th , 2015

[Moon Phases courtesy of Time and Date.com](http://www.timeanddate.com)

Astronomy Day Volunteers Needed April 25



By: Mitch Luman

National Astronomy Day is on Saturday, April 25 this year. As in years past, this event takes place from 11:00 a.m. – 4:00 p.m. & 7:00 p.m. – 9:45 p.m. at the Evansville Museum.

If you would like to help for all, or part of this all-day event, meet in front of the Museum at 10:30 a.m. Volunteers are needed to do perform “Make A Comet” demonstrations, solar observing during the day, showing guests how a telescope works, observing after dark and helping take down the daytime activities, which will conclude at 4 p.m. Volunteers are asked to bring a small, portable telescope for a static display, or for use outside.

If you’ve never helped with an Astronomy Day, give me a call at 812-425-2406, ext 227. We need all the help we can get. If you’ve helped in the past and can help again, thank you, but also let me know you’re coming. Astronomy Day volunteers will be provided a pretty nice lunch, so please RSVP so that I can get a count of how much food to get. We usually break for dinner as a group before returning for the evening Skywatch around 5:00 p.m.

Activities at the Museum

- 10 a.m. – 4 p.m. Meteorite Display
- 10 a.m. – 4 p.m. Telescope Display
- 12 p.m. – 2 p.m. Solar Observing on the Museum’s Schroeder Plaza
- 11 a.m. Make a Comet Demonstration
- 2 p.m. Make a Comet Demonstration

The Museum will be presenting this schedule of shows with a special Astronomy Day admission of \$3 in its Koch Immersive Theater

- 11 a.m. One World One Sky (children)
- 1 p.m. Life A Cosmic Story (new show)
- 2 p.m. Skies over Evansville
- 3 p.m. Exploding Universe (new show)
- 4 p.m. Perfect Little Planet (children)

Suggestions to assure the success of this event are always welcome.

Spring Cleanup Photos
All Photos Credit Dave Kube
3-07-2015



Ted Ubelhor



Scott Conner



Ken Harris



Donny Chambliss

***EAS MEETING for February 20th, 2015
Minutes/ Notes***

The meeting for February was cancelled due to weather, so I am reposting the January Minutes.

***EAS MEETING for January 16th, 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 1st 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