

EAS Mount Completed Training Begins @ Meeting April 17th, 2015



Scott Conner Completes 6" Refractor Installation
Photo Credit: Dave Kube

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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
812-.604.7164
ssconner24@gmail.com

Vice President – Tony Bryan

Secretary – Charleen Kaelin
812.303.1711

Treasurer – Ted Ubelhor

Counselors
Michael Borman
Kent Brenton
Ken Harris

Webmaster – Michael Borman

Program Director
Tony Bryan

News editor – David Kube
dasiceman@yahoo.com

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 April will be held at the Observatory on Friday, April 17th, 2015 @ 7:30pm.

EAS Update:

Please Note that we will be doing Telescope Training for our Presentation for the April Meeting.

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:

EAS Update:

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>

Colorful life-form catalog will help discern if we're alone.



NASA

While looking for life on planets beyond our solar system, a group of international scientists has created a colorful catalog containing reflection signatures of Earth life-forms that might be found on planet surfaces throughout the cosmic hinterlands. The new database and research gives humans a better chance to learn if we are not alone.

APEX observations help unravel mystery of Nova Vulpeculae 1670.



ESO/T. Kamiński

New observations made with APEX and other telescopes reveal that Nova Vulpeculae 1670, which European astronomers saw appear in the sky in 1670, was not a nova, but a much rarer, violent breed of stellar collision. It was spectacular enough to be easily seen with the naked eye during its first outburst, but the traces it left were so faint that careful analysis using submillimeter telescopes was needed before the mystery could finally be unraveled more than 340 years later.

Hubble finds phantom objects near dead quasars.



NASA/ESA/W. Keel (Univ. of Alabama, Tuscaloosa)

NASA's Hubble Space Telescope has photographed a set of wispy, goblin-green objects that are the ephemeral ghosts of quasars that flickered to life and then faded. The glowing structures have looping, helical, and braided shapes. "They don't fit a single pattern," said Bill Keel of the University of Alabama in Tuscaloosa, who initiated the Hubble survey. Keel believes the features offer insights into the puzzling behavior of galaxies with energetic cores. The ethereal wisps outside the host galaxy are believed to have been illuminated by powerful ultraviolet radiation from a supermassive black hole at the core of the host galaxy. The most active of these galaxy cores are called quasars, where infalling material is heated to a point where a brilliant searchlight shines into deep space. The beam is produced by a disk of glowing superheated gas encircling the black hole.

May 2015

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

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Up and Coming Events 2015

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

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

Regular Meeting – Friday, May 15th, @ 7:30pm @ Observatory

PSW – Saturday, May 16th, @ 7:00pm @ Observatory

Moon Phases

First Quarter	Full Moon	Third Quarter	New Moon
May 25 th , 2015	May 3 rd , 2015	May 11 th , 2015	May 18 th , 2015

[Moon Phases courtesey 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.

Latest Photos via New Mount/ Scope
4-4-2015

Jupiter
Taken through 14" Refractor – IO transiting



Photo Credit Scott Conner, Tony Bryan and Dave Kube

M42 – 3 minute x 5 Stack
Taken through 6" Refractor



Photo Credit Scott Conner, Tony Bryan and Dave Kube

EAS MEETING for March 20th, 2015

In the beginning, this special meeting held in the **PLANATARIUM IMERASION THEATRE @** the Evansville Museum included a program entitled "Destruction to Creation", demonstrating the many capabilities of this facility. Among other things, it included the birth & death of stars as well as planets a comparison of the enormous stars to planets, & the stars in tonight's sky.

After that program, the meeting was **CALLED TO ORDER** by President Scott Conner.

There were 25 in attendance for multi-media presentation entitled "Destruction to Creation".

It was moved & seconded to approve **JANUARY, 2015, MINUTES** as seen on the EAS Internet page. (The EAS February, 2015, meeting was cancelled due to weather.)

Tony Bryan announced the **UPCOMING EVENTS:**

Regular Meeting, Friday, April 17 @ 7:30 PM

ASTRONOMY DAY, Saturday, April 25 @ the Museum from 11:00 AM – 7:30 PM

Regular Meeting, Friday, May 15 @ 7:30

PSW, Saturday, May 16 @ 7:00

There were no visitors.

Ted Ubelhor presented the Treasurer's report indicating that all accounts are in the black. Also, there still a few 2015 Astronomy **CALENDARS** available for purchase @ **INVENTORY BLOWOUT PRICE** of \$4.00.

Ted also stated that he has sent out **MEMBERSHIP LETTERS** indicating the benefits of being a member such as combinations to the locks & other rooms at the planetarium. Also, training classes held on the use of the telescope. After the meeting, several in attendance were interested in joining EAS.

SPECIAL PROJECT

Scott announced that the new **F7 REFRACTOR TELESCOPE** arrived the month.

OLD BUSINESS

SRING CLEANUP held this month & had a good turn-out with 6 members in attendance.

Besides the cleaning, they accomplished some electrical work & installed the new computer.

Additionally, the combinations for the locks were changed & a new combination allowing access to the telescope.

The **1st PSW** was held on March 14. Though it was cloudy, visitors viewed a program & Jupiter through the haze. Donations of \$19.00 were made.

NEW BUSINESS

A memorial **DONATION of \$50** was given by Margaret Morris of Glascoe, Ireland, in memory of our friend, **VICTOR LOPEZ**. It was used to purchase a new 6" refractor which we obtained @ half price. However, an additional donation of \$500 is needed to finish the telescope & mount project.

There is a need to schedule a **WORK DAY** to take care of some leaks @ the Observatory. Scott will send out information regarding possible dates.

ASTRONOMY DAY is schedule for Saturday, April 25, @ the Museum from 11:00 AM – 4:00 PM. After a break for supper & weather permitting, there will be a **PSW**. Next, Charleen Kaelin gave an **MONTHLY ASTRONOMY REPORT**.

Finally, Mitch requested that we go on **TRIPADVISOR** to rate tonight's program. The meeting was adjourned.

Respectfully submitted,
Charleen Kaelin, Secretary