

**December Meeting @ Downtown Museum
7:00 pm - December 16th, 2016**



Photo by Dave Kube

**Please Note that the December Meeting, Potluck and Astronomy Quiz
Will be held at the Downtown Museum beginning @ 7:00pm**

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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 2017 Officers and Contacts

President – Tony Bryan
812.827.3234

evansvilleastro@gmail.com

Vice President – Scott Conner

Secretary – David M Kube
740.223.6854

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 Note that we have our Christmas Potluck and Astronomy Quiz scheduled for Friday, December 16th, 2016 at the Downtown Museum, beginning at 7:00pm. Please bring a dish to pass at the Potluck.

EAS Update:

Please Note that we have a Regular Meeting scheduled for Friday, January 20th, 2017. Location is to be at the Museum – Time undetermined at this time.

EAS Update:

Please Note that we have a Regular Meeting scheduled for Friday, February 17th, 2017. Location is to be at the Museum – Time undetermined at this time.

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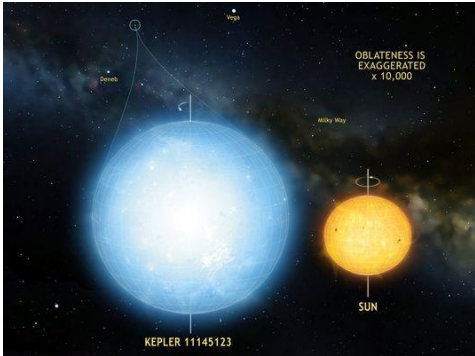
EAS Update:

Please Note

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>

Kepler 11145123 Attained a New Status.



Laurent Gizon et al. and the Max Planck Institute for Solar System Research, Germany. Illustration by Mark A. Garlick

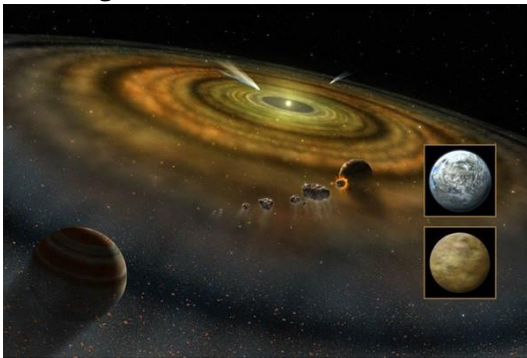
This distant star is much different from others.

Kepler 11145123, a star about 5,000 light-years from Earth, has been classified as the roundest natural object in the universe thus far discovered.

Stars and planets typically are flatter in the middle because of rotation caused by centrifugal force, which is why this discovery is so interesting.

Kepler 11145123 isn't a perfect sphere, but it's much closer than other stars and planets. The star is only four miles bigger at the equator than the poles, whereas Earth is 13 miles bigger at the equator than the poles and the Sun is six miles bigger at the equator.

A Promising Candidate could Yield an Amazing Find.



NASA/FUSE/Lynette Cook

A cloud of debris around a nearby planet may soon yield the first detection of an exomoon. While the planet itself won't be crossing between Earth and its sun anytime soon, scientists realized that any moons or rings would interrupt the light coming from the star. If the planet has a large enough satellite, it could be spotted by the end of 2017.

Located about 63 light-years from Earth, Beta Pictoris is a young star with a warped debris disk orbiting nearly edge-on to Earth. In 2009, scientists photographed a massive planet about 10 times as large as Jupiter orbiting the star about as far away as Saturn lies from our sun. Every 20 years, the planet, known as Beta Pictoris b (Beta Pic b), reaches its closest distance to the star, making it easier to detect any potential rings or satellites.

The Impossible' EmDrive Thruster has Cleared its First Hurdle.



The experimental setup of the controversial "EmDrive." White et.al

After years of unwarranted hype and dubious experimental claims, the EmDrive, an "impossible" propulsion device that claims to produce thrust while violating Newton's Laws of Motion, has received its first published, peer-reviewed paper.

A team of researchers from the NASA-affiliated Eagleworks lab published a paper last week describing a series of tests on the EmDrive. They say their methodology accounted for nearly all possible errors and returned results indicating that the device produced thrust, an apparent violation of Newton's Third Law of Motion. The drive works by bouncing microwaves around the inside of a cone-shaped chamber, apparently producing thrust even though nothing is being emitted from the device. This is in opposition to the laws of physics as we understand them, which state that every action must have an equal and opposite reaction. For example, conventional propellant-based rockets are pushed forward by the ejection of superheated gas from the nozzle.

January 2017

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

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Up and Coming Events 2016

Regular Meeting – Friday, December 16th @ 7:00pm @ Museum

Regular Meeting – Friday, January 20th @ Museum – Time is to be determined later.

Regular Meeting – Friday, February 17th @ Museum – Time is to be determined later.

Moon Phases

New Moon	First Quarter	Full Moon	Third Quarter
January 27 th , 2017	January 5 th , 2017	January 12 th , 2017	January 19 th , 2017

Moon Phases courtesy of Time and Date.com

EAS MEETING for November 18th, 2016

CALL TO ORDER - by President Scott Conner @ 7:38pm with 20 members present.

READING OF MINUTES - Motion to accept the minutes from October 2016, as published in the November Newsletter was carried by the attending membership with the following addendum. Minutes to also include Ted Ubelhor as part of the Ferdinand Folk Festival Event.

UPCOMING EAS EVENTS

V. Pres., are there any up-coming special functions, Open Houses, (recent or soon)

Regular Meeting **Friday, December 16th** **7:30pm @ Museum**

Regular Meeting **Friday, January 20th** **7:30pm @ Museum**

***Note - We have our annual Christmas Potluck and Astronomy Quiz @ our December Meeting**

VISITOR INTRODUCTION - No visitors

TREASURER'S REPORT -

Finances are good. We purchased a 5 user online license for Quick Books online. Email links sent to officers.

SPECIAL PROJECTS -

Parts are cut to Mount the RC8. It will likely be after the 1st of the year before Scott has time to weld and finish the parts. New Counter Weights have been designed, but not manufactured.

Storage Room Remodel -

Tony with some help from Scott has started working on the remodel project. All the old cabinets and sinks have been removed. A new sink has been installed. We need to work on the ceiling, drywall and wiring to complete the project.

OLD BUSINESS

LAS Star Party -

Was rescheduled for October 29th. It appears that we had no one attend. This was also same date as the Acorn project below.

Project ACORN -

Held on October 29th in the Ferdinand State Forest. -Dave Kube reported that he and Don Schenk had about 23 guests - They were able to view many object including, Mars an M57. The crowd was very receptive and enjoyed our partaking in this event. Observing was fair with high cirrus clouds.

Boy Scout Troup 397 -

Last Saturday we did a program for Boy Scout Troop 397. There were approximately 20 people in attendance. We did a multimedia presentation that was originally written by Mike Volmer. The boys returned to camp for an hour to do their snack. After they returned to the observatory for the 2nd half. We split them in to 2 groups. The groups took turns looking through the scopes upstairs and learning about constellations and stars outside. The troop made a \$100 donation for our time. The program was clearly outdated and needs to be updated to current events.

NEW BUSINESS

Election of Officers -

The new slate of officers are;

President - Tony Bryan, Vice President - Scott Conner, Secretary - Dave Kube, Treasurer - Ted Ubelhor
Attending membership confirmed by vote the board members as above.

Counselors - Michael Borman, Kent Brenton and Ken Harris.

Mitch Lumin expressed an interest in serving as a counselor.

It was discussed to continue the discussion of counselor at the next meeting.

Vogel School - This has been postponed until March 2017.

PROGRAM

The program for Tonight: "Cosmic Voyage" Video presented by Tony Bryan.

ADJOURN MEETING-8:12pm