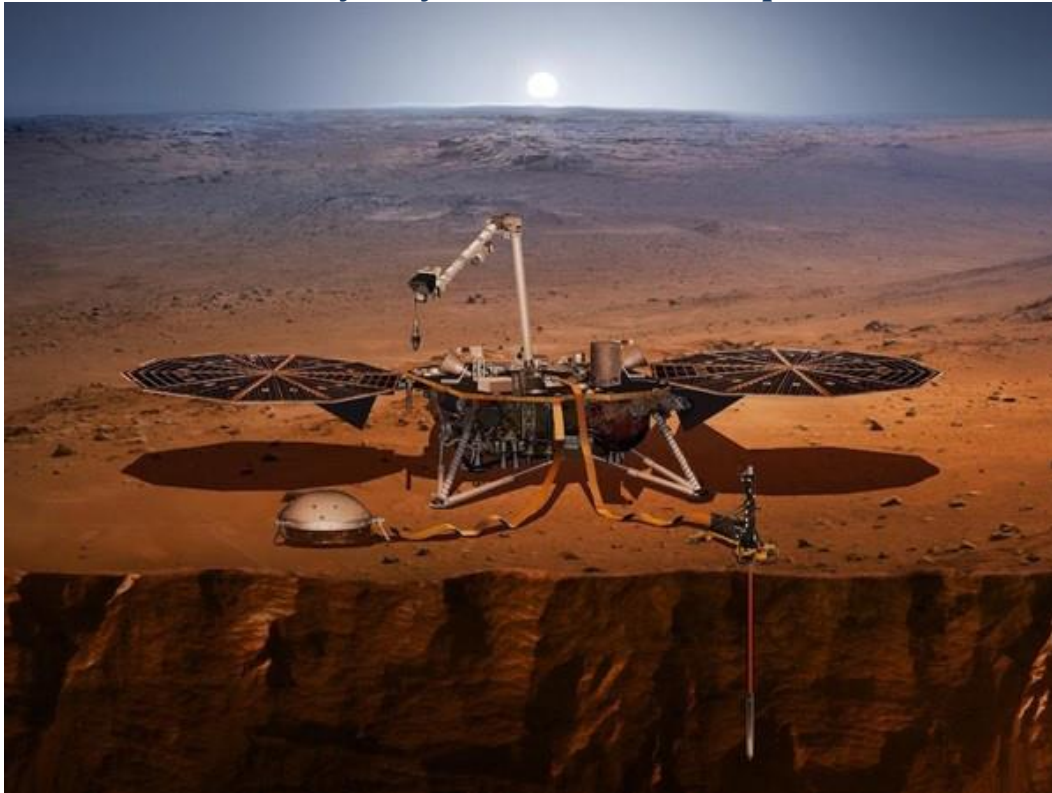

**May Meeting at the Observatory
Friday May 18th, 2018 @ 7:30pm**



**InSight Lander will soon peer deep into the Mars interior.
NASA's InSight Mars lander successfully lifted off from the West Coast aboard a United
Launch Alliance Atlas V rocket at 7:05 a.m. EDT on May 5, 2018.**

NASA/JPL-Caltech

Inside this Issue..

- 2 – Local Events and information
- 3 – News around the Globe
- 4 – Calendar
- 5 – EAS Business

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 2018 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
Ken Harris
Mitch Luman
Michael Borman

Webmaster – Michael Borman

Program Director
Tony Bryan

Newsletter editor – Dave 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 Update:

Please Note we have a Regular scheduled meeting for Friday, May 18th, 2018 @ the Observatory @ 7:30 pm. The speaker for the May EAS meeting will be Mr Jerry Garner and topic will be "Earth: Home to frequent alien visitors!" (meteorites)..

EAS Update:

Please Note we have a Jupiter Watch scheduled @ the **Museum** on Friday, June 1st, from 8-10:00 pm.

EAS Update:

Please Note we have a Public Star Watch Scheduled @ the Observatory on Saturday, June 9th beginning @ 7:30pm.

EAS Update:

Please Note the EAS picnic is scheduled for Saturday, June 16th @ Dolan Lake in Illinois. There will not be a regular meeting for the month of June.

EAS Update:

Please Note our annual Patoka Lake event will take place on Saturday, July 14th, with a scheduled Rain Date of August 4th. Day Time Festivities will begin 11am EDT.

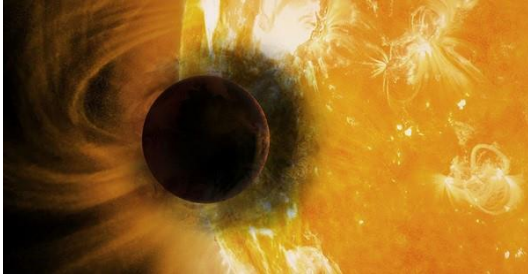
EAS Update:

Please Note we have a Jupiter Watch scheduled @ the **Museum** on Friday, June 1st, from 8-10:00 pm.

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 First Detection of Helium in an Exoplanet's Atmosphere.



Using the Hubble Space Telescope, researchers probed WASP-107b, located about 200 light-years and discovered that it has an abundance of helium steadily escaping its atmosphere.

ESA/Hubble/NASA/M. Kornmesser

Meteoritic Diamonds are Evidence of Long Lost Planets.



An artist's illustration of a protoplanet.

Pavel Gabzdyl/Shutterstock

Uranus Smells Exactly How You Think.



The planet Uranus. It smells bad here.

NASA

In a new study an international team of researchers used a novel technique to probe the atmosphere of the exoplanet WASP-107b, resulting in the first-ever detection of helium in the air of an alien world.

“Helium is the second-most common element in the universe after hydrogen. It is also one of the main constituents of the planets Jupiter and Saturn in our solar system,” said lead author Jessica Spake of the University of Exeter. “However, up until now, helium had not been detected on exoplanets — despite searches for it.”

Furthermore, the helium signal the researchers discovered was so strong that they think the planet's upper atmosphere may stretch many thousands of miles into space, making it susceptible to erosion through intense stellar winds.

“The helium detected extends far out to space as a tenuous cloud surrounding the planet,” said co-author Tom Evans of the University of Exeter, in a press release.

Diamonds found in meteorites on Earth may have come from an ancient long-dead planet the size of Mercury or Mars, the first potential known relics from these lost worlds, a new study finds.

Scientists examined a ureilite, a kind of meteorite that is rich in carbon and sometimes even possesses diamonds. More than 480 ureilites have been discovered so far, says study lead author Farhang Nabiei, a materials scientist and electron microscopist at the Swiss Federal Institute of Technology in Lausanne.

Specifically, the researchers investigated the Almahata Sitta ureilite, which fell to Earth in 2008 in the Nubian Desert in Sudan. They analyzed diamonds within the ureilite that were a few dozen to a few hundred microns large. (In comparison, the average human hair is about 100 microns wide.)

Scientists confirm that Uranus' atmosphere contains hydrogen sulfide, a compound long suspected to be swirling about in the planet's clouds.

Using the Gemini North telescope in Hawaii, researchers from the United Kingdom analyzed Uranus using a technique known as spectroscopy to identify the elements contained within. They relied on the Near-Infrared Integral Field Spectrometer (NIFS) at Gemini for the task, which involves breaking down the light reflected from Uranus by wavelength to determine the composition of the planet.

June 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 Jupiter Watch Museum 8-10	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16 Picnic Dolan- Lake 6pm
17	18	19	20	21	22	23
24	25	26	27	28	29	30

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Up and Coming Events 2017/2018

Regular Meeting – Friday May 18th – Observatory @ 7:30 pm

Jupiter Watch – Friday June 1st – Museum – 8-10:00 pm

PSW – Saturday, June 9th – Observatory 7:30pm

EAS Picnic and Observing – Saturday June 16th – Dolan Lake Illinois 6 pm

Patoka Lake Stars on the Beach – Saturday July 14th – Patoka Lake beginning 11am EDT

Regular Meeting – Friday May 18th – Observatory @ 7:30 pm

Moon Phases

New Moon	First Quarter	Full Moon	Third Quarter
June 13 th , 2018	June 20 th , 2018	June 28 th , 2018	June 6 th , 2018

Moon Phases courtesy of Time and Date.com

There was no official meeting for April 20th, 2018

We did not have an official meeting for April, as there were not enough officers present. Many members gathered at the observatory in a Social Gathering.

Dr. Gerard Williger gave a presentation regarding "The 1869 Eclipse and the Wabash College Expedition to New Albany"