

Psyche Mission Launched Successfully on Friday, October 13th, 2023.



*Following a one day delay in Florida due to bad weather. Psyche lifted off atop a Falcon Heavy rocket. The Mission will rendezvous with the same named asteroid Psyche in May 2029.
Photo Courtesy: Kirby Kahar for Sky and Telescope Magazine*

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 2023 Officers and Contacts

President – Tony Bryan
812.827.3234

evansvilleastro@gmail.com

Vice President – Scott Conner

Secretary – Dave Kube
740.223.6854

Treasurer – Mitch Luman

Counselors
Michael Borman (2021)
Ken Harris (2022)
Kent Bretton (2023)

Webmaster – Michael Borman

Program Director
Chuck Allen

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 meeting scheduled for Friday, October 20th, 2023 at 7:30pm. Please see our Facebook Group and Webpages for Updates .

EAS Update

Please Note: We have a Saturn Watch scheduled at the Museum on October 21st, 2023 beginning at 7:00pm. Please see our Facebook Group and Webpages for Updates.

EAS Update

Please Note: We have a Regular meeting scheduled for Friday, November 17th, 2023 at 7:30pm. Please see our Facebook Group and Webpages for Updates.

EAS Update

Please Note: We have a Regular meeting scheduled for Friday, December 15th, 2023 at 7:30pm. This is our annual Astronomy Quiz Night and will be held at the Museum. Please see our Facebook Group and Webpages for Updates.

EAS Update

Please Note: Our January and February meetings will be held at the Museum. Our board members will meet early in the New Year to set our 2024 schedule. Please see our Facebook Group and Webpages for Updates.

EAS Update:

Please visit our website <http://www.evansvilleastro.org> and our Facebook Group page to keep yourself up to date for any changes.

Telescopes and accessories for sale...

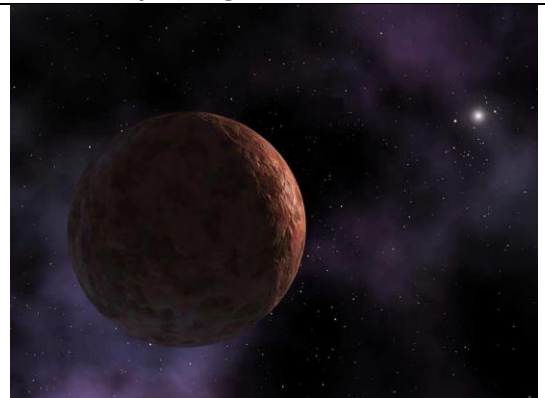
Orion AstroView120ST, Equatorial Refracting Telescope and accessories. 120mm (4.7") aperture and 600mm focal length, includes sturdy adjustable-height tripod, equatorial mount, finder scope and an internal polar alignment scope. Includes two Plossl 1.25" eyepieces (25mm and 10mm), 6x30 finder scope, star diagonal. \$600.

Contact: Karen Caruso 812-629-8089 (cell)

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>

“Planet X” may have left out Solar System billions of years ago.



An artist's concept of Sedna, a small world in the outer solar system. Astronomers think an undiscovered “Planet X” might have molded its orbit, but new research suggests that molding occurred in a one-off event.

Photo Credit: NASA/ JPL-Caltech with modifications by S&T

When Sedna was discovered more than a decade ago, its orbit – far beyond Neptune – baffled astronomers. Unlike most such far-out objects, Sedna never comes anywhere near Neptune. Its closest approach to the Sun is 76 a.u., more than twice Neptune's distance.

Some encounter with a larger object, such as, “Planet X” may have placed Sedna on this path. Based on this and related evidence, astronomers have been looking for this undiscovered planet. But so far, they've come up empty.

Now, new work presented by Yukun Huang (University of British Columbia, Canada) suggests there is no such planet. While encounters with an outer planet could have established the orbits of Sedna and two other, more recently discovered “Sednoids,” that larger world must have been ejected from the solar system during its chaotic childhood 4-5 billion years ago.

Two worlds have ended in a planetary collision – and a new one has begun.



This artist's concept shows the hot, molten moon emerging from a synestia, a giant donut of vaporized rock that formed when planet-sized objects collided. The synestia is in the process of condensing to form the earth.

Photo Credit: Sarah Stewart S&T

Astronomers have caught two infant worlds slamming together around a young star, Sun-like star more than 1,800 LY away in the constellation Puppis. The impact probably vaporized both planets, creating a huge cloud of debris that still orbits the host star. Ultimately, the vaporized material will settle to form a new, much larger world – and astronomers are watching it all happen.

November 2023

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.Mtg 7:30pm	18
19	20	21	22	23	24	25
26	27	28	29	30		

Generated by FreeHTMLCalendar.com Copyright © 2011 John Dalbey.

Up and Coming Events 2023

Please Note we have a Reg. Mtg. scheduled for 7:30pm on Friday October 20th, 2023 @ Observatory.

Please Note we have a Saturn Watch scheduled for 7:00pm on Saturday October 21st, 2023 @ Museum.

Please Note we have a Reg. Mtg. scheduled for 7:30pm on Friday November 17th, 2023 @ Observatory.

Please Note we have a Reg. Mtg. scheduled for 7:30pm on Friday December 15th, 2023 @ Museum.

Please visit our Web Page <http://www.evansvilleastro.org> or our Facebook Group Page for updates. Events may be cancelled due to Covid and/or Weather at time of event.

Moon Phases

New Moon	First Quarter	Full Moon	Third Quarter
November 23 rd , 2023	November 1 st , 2023 November 30 th , 2023	November 8 th , 2023	November 16 th , 2023
Moon Phases courtesy of Time and Date.com			

EAS Meeting for September – 2023

Prior to the meeting the EAS held a zoom presentation by our Guest Speaker, Dr. Brian Kloppenborg. His program was a discussion of the AAVSO. The meeting was called to order by Vice President Scott Conner @ 8:45pm. There were 11 members plus 1 member attending via zoom. Board members Scott Conner and Dave Kube were present. A motion to wave the reading of the minutes and accept the minutes from the September 2023 Newsletter was passed. We had 1 new member presents.

Acting Vice President Ken Harris read the following upcoming events.

Public Star Watch	Saturday, September 23	7:30 PM @ Observatory
Public Star Watch	Saturday, October 7	7:30 PM @ Observatory
Toyota Fall Family Day	Saturday, October 7	10:00 AM – 4:30 PM@ Toyota
Partial Solar Eclipse	Saturday, October 14	10:30 AM – 1:30 PM@ Museum
Regular Meeting	Friday, October 20	7:30 PM @ Observatory
Saturn Watch	Saturday, October 21	7:00 PM – 8:30 PM@ Museum

OLD BUSINESS

Special Projects Status – Scott Conner reported that 2 of the 4 items for the mount upgrade has come in.

Toyota Grant Status – The grant proposal that was submitted to Toyota Motor Manufacturing Indiana, with the title “Multimedia Equipment for Public Outreach” has been approved. Over the next few months, members and visitors will see some very impressive upgrades to our equipment in the meeting hall.

Fourth PSW of 2023 – Dave Kube reported that they had 8 guest and 4 members attend this event Dave gave an Intro to Astronomy presentation while Scott dazzled the guests with observations through our club scopes. We did receive \$30 in donations.

Zoom Account Renewed – At our August meeting, a vote was taken to continue our Zoom Professional License for another year, at a cost of \$149. Chuck Allen made a donation that evening to offset those costs. Thanks Chuck!

Treasurer Position – Our current Treasurer is moving away and unable to complete his 2023 term. The EAS Board is seeking a person to fill this position until regular elections are held for the next calendar year. Per our Bylaws, the Board can appoint persons to fill vacated positions. If you are a member in good standing, and interested in being our Treasurer, please speak with any officer.

NEW BUSINESS

Dues are Due – Membership dues have been due since July. If you have not sent in your payment please do so at your earliest convenience. You can use USPS mail or follow the links on our website to make a PayPal, venom, or debit/credit card payment.

Fifth and Sixth PSWs of 2023 – Our next two PSW of 2023 will be September 23rd and October 7th. If you have never assisted with a PSW, please consider doing so. PSW's are a great opportunity to meet others interested in astronomy, and likely you will learn something new along the way. Chuck Allen volunteered ro the program and Ken and Scott said they could try to be the also for the 23rd. For the 7th day Dave Kube said he worked day shift and could possibly make it along with Bens help.

Toyota Fall Family Day – In appreciation of Toyota's continuing support of the EAS, we will be setting up solar telescopes and interacting with their employees and families. The event takes place at Toyota in Princeton, Indiana. Bob Flatter is our P.O.C for this event. Over the past three years, Toyota has funded two grant

applications submitted by the EAS totaling \$8290. Please come out that day and help show our appreciation to Toyota by giving them an opportunity to view the Sun through properly filtered equipment.

Partial Solar Eclipse – A partial solar eclipse will occur on Saturday October 14th. An Eclipse Watch will take place at the Evansville Museum from 10:30 AM to 1:30 PM. Please consider supporting the Eclipse Watch on October 14th.

Saturn Watch – A Saturn Watch will take place on Saturday, October 21st, at the Evansville Museum. We will be setting up telescopes for the public to view Saturn and other objects in the night sky. Please consider supporting the Saturn Watch next month.

Winter Meetings at Museum – For the past several years, the EAS has been holding our December, January, and February monthly meetings at the museum so that members will not have to contend with navigating a potentially snow covered road to our observatory. December 15th, January 19th, and February 16th have been reserved. The museum has agreed to continue with our special rate of \$75 per night. Thanks go out to Carlisle Wishard, the museum's new Director of Science Experiences for championing our cause. If a member desires to sponsor us for an evening and cover a portion or all of the cost of rental, the Society will appreciate your generosity.

Other New Business – Dave Kube reported that he trained Ben Cechie on the telescope and facilities. Ken Harris reported that he did an Eclipse presentation on 9-9-2023 and received a \$20 donation. Scott Conner reported that he has a Girl Scout event at the observatory on 9-16-2023 but looks like rain.

ANNOUNCEMENTS

Next Monthly Meeting – Our next regular meeting is scheduled for 7:30 PM on September 15th at the Observatory. Chuck Allen has already arranged a guest speaker for that meeting.

ADJOURN MEETING- Scott Conner adjourned the meeting at 8:55pm

Respectfully Submitted – Dave Kube – Secretary