

Observer

EVANSVILLE ASTRONOMICAL SOCIETY, INC.

July

2022

Greetings from the Evansville Astronomical Society!

We are happy to announce that our next in-person meeting will be at 7:30 PM CDT at the Wahnsiedler Observatory in Lynnville Park on July 15, 2022. We hope to see you there.



Now is also the time to renew your annual membership. The society incurs expenses, including insurance and utility costs, year-round. Your membership helps support the operation of the Observatory, our public star watches, and the astronomical community at large. As an additional benefit, members receive membership in the Astronomical League, an umbrella organization of amateur astronomy clubs and societies in the U.S. Members can also have access to the Observatory and its telescopes.

Photo Courtesy: 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 2022 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
Mitch Luman (2020)
Michael Borman (2021)
Ken Harris (2022)

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 7:30pm CDT on Friday, July 15th, 2022. **This meeting will be held at the EAS Observatory in Lynnville.** Please see our Facebook Group and Webpages for Updates.

EAS Update

Please Note: We have our Annual Stars on the Beach at Potaka Lake scheduled for Saturday, July 30th, 2022. See page 5 for schedule.

EAS Update

We have a Regular Meeting scheduled for 7:30pm CDT on Friday, August 19th, 2022. This meeting is scheduled to be at the EAS observatory in Lynnville. Please see our Facebook Group and Webpages for Updates.

EAS Update

Please Note: We have our Annual Stars on the Beach at Potaka Lake Rain date is scheduled for 6:30pm **EDT** on Saturday, August 27th, 2022. Daytime activities still have not been confirmed.

EAS Update

Please Note: We have a Moon Watch at the Evansville Museum on September 3rd, 2022 beginning at 7:30pm CDT

EAS Update

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>

This Powerful Pulsar is so Young it might still be a Teenager.

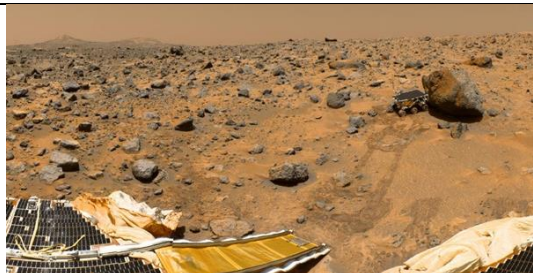


A distant dwarf galaxy holds what researchers have called a super Crab Nebula neutron star.

Astronomers think they may have found the most powerful pulsar to date in a distant galaxy.

The fast-spinning neutron star — the dense remains of a once massive star — is just beginning to emerge from the Supernova remnant that birthed it. The object, called VT 1137-0337, was first seen in 2018 by the VLA Sky Survey, a project imaging about 80 percent of the night sky over seven years. The pulsar did not appear in an earlier image taken by the Very Large Array (VLA) in 1998, suggesting that the object is also one of the youngest neutron stars yet found. Estimates put it at no older than 60 to 80 years, but possibly as young as 14 years.

Sojourner: The microwave-sized rover that showed us Mars.



Twenty-five years ago, NASA's first rover began exploring the Red Planet.

The Sojourner rover (upper right) investigates a Martian rock called Yogi with its Alpha Proton X-Ray Spectrometer, while the Pathfinder lander and the rock named Barnacle Bill lie in the lower left of this image.

Credit: NASA/JPL

When you hear the words “Mars rover,” you probably picture of one of the modern rovers like Perseverance or Curiosity: camera-covered, laser-toting, nuclear-powered monster trucks with wheels the size of barrels, trundling across Mars with all the urgency of a Jawa Sand Crawler to study rocks and dust. Or, if you’re a little older, you might imagine their predecessors, the smaller, solar-powered twin Mars Exploration Rovers Spirit and Opportunity, who raced across Barsoom like Labrador puppies on a beach, hopscotching from crater to crater and going up and down more hills than the Grand Old Duke of York.

But none of those would have even been built if it wasn’t for the amazing success of a much smaller rover named Sojourner that landed on Mars 25 years ago.

Not much bigger than a microwave oven, it weathered a daring landing cocooned inside airbags, then didn’t just survive but *thrived* on Mars, carrying out useful science and sending back fascinating pictures before its mission ended. Sojourner paved the way for the high-tech rovers currently rolling across Mars in the same way that the canvas and cane Wright Flyer *Kitty Hawk* paved the way for the fighter jets and airliners in our skies today.

Launched Dec. 4, 1996, aboard a Delta II rocket, Sojourner was part of the Mars Pathfinder mission: a low-budget program to send a lander and a small test rover to Mars to see whether it was even possible to operate a wheeled vehicle on the Red Planet.

And Sojourner certainly was small. Weighing only 25 pounds and measuring just 11 inches high and 25 inches long, it really was the size of a microwave oven. But despite its diminutive stature, little Sojourner had big goals. It had front and rear cameras and a variety of instruments designed to perform limited but valuable science. Its most striking features, however, were its flat topside covered in metallic blue solar panels, which many thought made it look like a giant beetle, and its six small, spiky wheels, which gave the rover real *Robot Wars* appeal..

August 2022

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 Reg.Mtg 7:30pm	20
21	22	23	24	25	26	27 Stars On Beach Rain Date
28	29	30	31			

Generated by FreeHTMLCalendar.com Copyright © 2011 John Dalbey.

Up and Coming Events 2021

Please Note we have a Regular Meeting scheduled for 7:30pm on Friday July 15th, 2022.

Please Note we have our Patoka Lake event scheduled for 6:30pm EDT on Saturday July 30th, 2022.

Please Note we have a Regular Meeting scheduled for 7:30pm on Friday August 19th, 2022.

Please Note we have our Patoka Lake event Rain Date scheduled for 6:30pm EDT on Saturday August 27th, 2022.

Please Note we have a Moon Watch @ the Evansville Museum on September 3rd, 2022 @ 7:30pm

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

Moon Phases

New Moon	First Quarter	Full Moon	Third Quarter
August 27 th , 2022	August 5 th , 2022	August 11 th , 2022	August 19 th , 2022
Moon Phases courtesy of Time and Date.com			

***The Evansville Astronomical Society
Presents the:
31st Annual "Stars on the Beach"***

**July 30th, 2022 Schedule of Events
All Times are in EDT**

At the Nature Center

1:00 PM to 4:00 PM – Solar Observing Visit with Evansville Astronomical Society volunteers to safely view the Sun through specially filtered telescopes. If this sun is shining, don't pass on this awesome event! Recommended for ages 5 and up, but everyone is welcome.

2:00 PM – About the Sun Scott Conner from the Evansville Astronomical Society will present a program where everyone can learn something about the nearest star to planet Earth. Recommended for ages 5 and up, but everyone is welcome.

3:00 PM – Astronomy 101 Come inside to cool off from the heat of the day and learn some basics about astronomy. Evansville Astronomical Society's Scott Conner, will give everyone an opportunity to learn about planets, stars, and distant objects like galaxies. Recommended for ages 5 and up, but everyone is welcome.

At the Beach (weather permitting)

8:30 to 10:00 PM (or later!) - Views of the Night Sky

Members of the Evansville Astronomical Society and Louisville Astronomical Society will share their knowledge of the night sky, and have telescopes set up for you to view celestial wonders including planets, nebulae, and distant galaxies.



Rainout date: Aug 27th

Visit our web pages:

<http://evansvilleastro.org/>

<http://louisville-astro.org/>

Telescope For Sale
From our Recently Departed Member Joe Caruso



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)

EAS Meeting Notes for June – 2022

We held no meeting for June 2022. In lieu of a monthly meeting the Society held its annual picnic. This year the picnic was held at Ken Harris's home. Thank you Ken for your contribution to this event.

Respectfully Submitted – Dave Kube – Secretary