

Fall Cleanup/ Workday October 22nd, 2022



Anthony Corn was presented with an appreciation award certificate and NSN lapel pin. Anthony was due to receive this award in October of 2019 for helping at PSWs and mowing our lawn, but medical factors and then COVID concerns had prevented him from attending any EAS functions since September of 2019. Because Anthony's work schedule interferes with him attending EAS events until sometime next year, the President used this opportunity to present his award with Dave, Ken, Mike, and Scott witnessing.

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 on Friday, November 18th, 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 a Regular Meeting scheduled for 7:30pm on Friday, December 16th, 2022. This meeting is scheduled to be at the Evansville Museum. Please see our Facebook Group and Webpages for Updates.

EAS Update

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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...

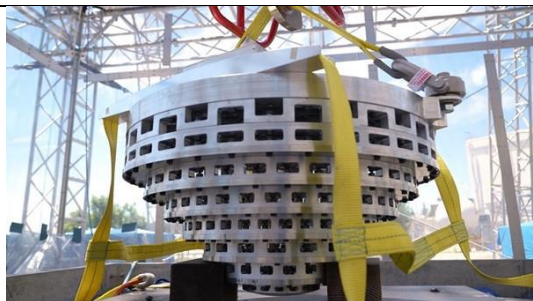
Orion AstroView120ST, Equatorial Refracting Telescope and accessories. 120mm (4.7") aperture and 600mm focal length, includes sturdy adjustable-height tripod, equatorial mount, finder scope and an internal polar alignment scope. Includes two Plossl 1.25" eyepieces (25mm and 10mm), 6x30 finder scope,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

NASA is testing a new way to crash land on Mars.



NASA has safely landed spacecraft on Mars nine times. But now they're investigating whether crash landing could be the best way to reach the Red Planet.

SHIELD, seen here, would use a collapsible base to absorb most of the energy of a hard impact.

Photo Courtesy: NASA/JPL-Caltech

NASA has always taken great care when it comes to touching down on Mars, relying on parachutes, airbags, and even jetpacks to ensure their spacecraft safely reach the surface. This method has worked for them nine times in the past. But now, an experimental lander is looking to try a more hard-hitting approach.

Instead of slowing the craft's descent, SHIELD — which stands for Simplified High Impact Energy Landing Device — would act like the crumple zone of a car, absorbing much of the energy of a hard impact. This method would work thanks to SHIELD's accordion-like, collapsible base.

The concept for SHIELD originated during planning for NASA's Mars Sample Return campaign. Since the Perseverance rover landed on Mars in February 2021, it has been busy collecting rock samples in metal tubes, storing them in its belly for now.

China and United Arab Emirates plan lunar rover mission.



The UAE-built rover would fly on China's Chang'e 7 lander, marking the first collaboration between the two space-faring nations.

Chang'e 7 will be a follow-up mission to Chang'e 5, pictured here in this artist's illustration, which flew in 2020 and was China's first mission to return samples from the Moon.

Photo Courtesy: CNSA

The United Arab Emirates' fledgling space program took another step forward last month, securing an agreement to collaborate on China's planned Chang'e 7 lunar mission, set to land near the Moon's south pole in 2026. The Mohammed bin Rashid Space Center (MBRSC) in Dubai will build a small robotic rover, which will hitch a ride on the Chang'e 7 lander, according to the agreement signed Sept. 16 between BRSC and the China National Space Administration (CNSA).

The deal is the first space collaboration between the two nations, and comes as both nations seek to ramp up their presence — and partnerships — in space.

The UAE's planned rover, named Rashid 2, will be a follow-up to Rashid, which will launch to the Moon as early as next month on a Falcon 9 rocket, stowed aboard a lander built by Japanese company ispace.

The UAE already has a successful Mars mission underway — the orbiter, named Hope, arrived last year and has been studying the martian climate ever since. That mission, the first to Mars from the Arab world, featured collaboration between MBRSC and three U.S. universities: the University of Colorado Boulder and its renowned Laboratory for Atmospheric and Space Physics, Arizona State University, and the University of California, Berkeley

December 2022

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

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Up and Coming Events 2022

Please Note we have a Regular Meeting scheduled for 7:30pm on Friday November 18th, 2022.

Please Note we have a Reg. Mtg. scheduled for 7:30pm on Friday December 16th, 2022 @ Museum.

Please keep eye out for 2023 schedule.

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

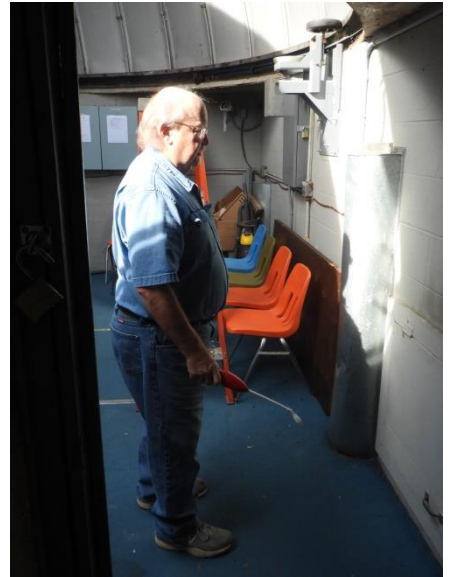
New Moon	First Quarter	Full Moon	Third Quarter
December 23 rd , 2022	December 29 th , 2022	December 7 th , 2022	December 16 th , 2022
Moon Phases courtesy of Time and Date.com			

Fall Cleanup/ Workday October 22nd, 2022

Seven members were present, namely Scott Conner, Dave Kube, Ken Harris, Anthony Corn, Kevin Bonges, Mike Marshall, and Tony Bryan.

Our day commenced at 10:00 AM. We accomplished several tasks, including but not limited to: scraping and recoating flat roof of dome deck, installation of door trim inside bathroom, replacing crown molding on bookshelf in office, cleaning of the chairs and floor in the meeting hall, cleaning of the dome area, cleaning of half of the under-stairs storage area, spraying for bugs inside and out, cleaning of the triangular storage cabinet in dome area, taking out much trash and old magazines, winterizing mower, general vacuuming and cleaning in other areas, trimming of greenery within the perimeter fence, adjusting angle of outside cameras.

Just some photos of the crew; Courtesy of Dave Kube



EAS Meeting for October – 2022

Our October meeting at the EAS Observatory was officially called to order @ 7:35pm by president Tony Bryan. Officers in attendance were Tony Bryan, Dave Kube and Scott Conner. There were 5 members present. There were no visitors present.

Reading of minutes from our September meeting was motioned Ken Harris and Seconded by Randy Chapman to be accepted as printed in the October 2022 EAS Observer Newsletter. Motion was carried by all members present.

UPCOMING EAS EVENTS

Vice President Scott Conner announced our upcoming events.

Fall Cleanup	Saturday, Oct 22	10:00 AM @ Observatory
Public Star Watch	Saturday, Oct 22	7:30 PM @ Observatory
Regular Meeting	Friday, Nov 18	7:30 PM @ Observatory
Regular Meeting/Quiz Night	Friday, Dec 16	7:30 PM @ Museum

TREASURER'S REPORT

Vice President Scott Conner read Mitch Lumans Treasurer report. Our finance are in the black and were reminded to renew you membership if have not already done so.

SPECIAL PROJECTS

The bathroom remodel project is moving along.

The bathroom cabinet was restored by Tony and is ready to be hung once the walls are finished.

Planning is underway to reconfigure the payload on mount in the observatory deck.

Cleaning and sanitizing of equipment stored in the observatory is still underway.

Dave and Tony have been to the observatory several times to work on various maintenance projects.

Dave has completed repair and replacement of bulbs and/or fixtures, changing out to LED where appropriate.

OLD BUSINESS

PSW –The first PSW of the year was held on September 24th. This event was expanded to include daytime activities here at the observatory. This was done so we can serve more people, generate increased public awareness, and improve our standing with the park and City of Lynnville after being shuttered for two years. Tony created fliers and placed them around town, provided them to the park staff, and City of Lynnville. Daytime events were conducted by Tony under the auspices of the NASA SSA program. Three multimedia shows were scheduled, but only one had people show up. Ken, Dave, and Tony worked on the observatory while waiting for the public to show up. The Star Watch that evening was a blast. It seems that people were starving for this. We had over 65 people attend and luckily we had great support from our members. Ken Harris, Dave Kube, Scott Conner, Steve Nordolf, Randy Chapman, and Tony Bryan served as ambassadors of the EAS that evening. We received \$86 in donations, that was placed in our general fund.

Library Telescope Status - Due to inventory shortages, the library scope awarded by the Astronomical League to the EAS for donation to the Chandler Library has yet to arrive. It is anticipated to be delivered within the next three months.

International Observe the Moon Night – October 1st was the International Observe the Moon Night. NASA SSA and EAS member Amanda Scurry hosted an event to celebrate that on the Scout Loop at Burdette Park in Evansville. EAS members present and support the event with telescopes were; Mitch Luman, Ken Harris, Matt Merlo, new member Michael Marshall, and Tony Bryan. The night was first quarter moon (6 days old) and the weather was nearly perfect. We had at least 45 people at the telescopes and over 75 people were at the park.

NEW BUSINESS

Hoovey Lake –On Saturday, Sept 24, Member Matt Merlo hosted a Night Paddle event at Hovey Lake. Matt Merlo was unavailable for a report.

Public Events –The second PSW of the year is scheduled for October 22nd. Tony and Dave went around town and posted fliers at the bank, Mexican restaurant, and Cassie's (with permission) and provided them to the park staff. The event has been posted to our Facebook, our website, and the City of Lynnville online event calendar. We hope to once again have a big crowd. Ken Harris and Dave Kube volunteered to host this event.

Fall Cleanup – The fall cleanup will take place on October 22nd. This is the same day as the PSW. There are many things that take place to prepare the observatory for winter. Please help us out that day. Lunch will be provided.

December Meeting Cost - We have the museum reserved for our December meeting, which is our annual Astronomy Quiz Night. The rental for the Museum will be \$75. 1 guard, 3 hours @\$25/hour. We thank Ken Harris for his generosity for a large donation to cover this expense.

Election of Officers – Elections will be held at the meeting next month. The current slate of officers is as follows: President-Tony Bryan, Vice President – Scott Conner, Treasurer – Mitch Luman, Secretary – Dave Kube. Current Counselors are: Mitch Luman and Mike Borman and Ken Harris. Our three EAS Counselors serve staggered three-year terms. Ken Harris will be in year two next year. Mike Borman will be in year three next year. We are in need of a counselor to begin a three-year term. Randy Chapmen accepted a nomination for this position.

Next month, voting will take place by ballot (if a nomination is present) or acclamation (if positions are unopposed). To hold an office and to vote, you must be a member in good standing of the EAS.

Nominations will be open until prior to voting at the next meeting.

Other New Business – Dave Kube announced that he will begin to upgrade the computer. Scott Conner announced that he will have a cub scout event at the observatory on November 8th, 2022.

ANNOUNCEMENTS

Thanks to Members – There are still many activities taking place here at the observatory outside of meetings and public events related to maintenance and cleaning, and operation of the society. Thanks go out to Dave Kube, Mike Borman, Mitch Luman, Scott Conner, Chuck Allen, Ken Harris, Kevin Bonges, and any other member that I missed for their efforts to keep this organization going.

Lost Item – A Stetson nylon sun hat with a back flap was lost at the observatory. If you know its whereabouts a reward is offered for getting it back to the owner.

Next Monthly Meeting - Our next regular meeting is scheduled for 7:30 PM on November 18th at the observatory.

ADJOURN MEETING Meeting was adjourned at 8:00pm

Respectfully Submitted – Dave Kube – Secretary