

Notes from the Board

Jeff Setzer

Our member events schedule has been updated. More information will come later regarding the July and October events:

April 25-27 is NCRA 2025 convention in Minnetonka, MN. See <https://ncra2025.org> for info and signup.

June 19-22 Wisconsin Observer's Weekend (<https://new-star.org/wow-2024/>)

July 12 Sunday On Saturday

Sept 19-21 Northwoods Starfest

(<https://www.cvastro.org/northwoods-starfest/nwsf-information/>)

Continued on p. 2

March 2025 Meeting Minutes

Gene and Charlotte Dupree

(Editor's Note: the March meeting was replaced by the annual dinner.)

Thursday, March 6, was our annual Club dinner. There were 29 members and guests that RSVP. With the help of late reservations we went over 25 persons, which then require us to have a limited menu. There were four no shows, so the total was 25 anyway, we would have been able to order off regular menu. That's alright, it made it easy for us to collect for the check. 🪐

April Events

General Meetings

All general meetings are held at the Jackson Community Center

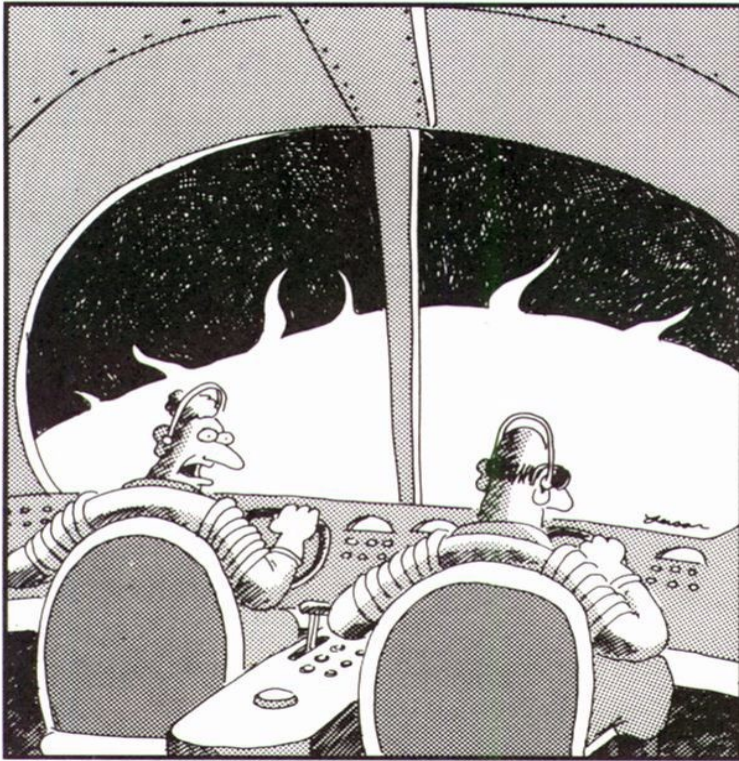
N165 W20330 Hickory Lane
Jackson, WI

unless otherwise noted.

Thursday, April 3, 6pm

Presentation topic: "The Story of the Harvard Computers" by Joyce Jentges





"It's no good, Dawson! We're being sucked in by the sun's gravitational field and there's nothing we can do! ... And let me add those are my sunglasses you're wearing!"

Oct 17 Binocular Star Party

*Board Notes
From p. 1*

Oct 18 Deep Sky Observer's Night

The Panarusky Telescope repair will be happening in two stages over the next several weeks. Kevin Bert is the person to contact if you want to help. Our public schedule at the observatory starts in May as listed on our website. 🪐

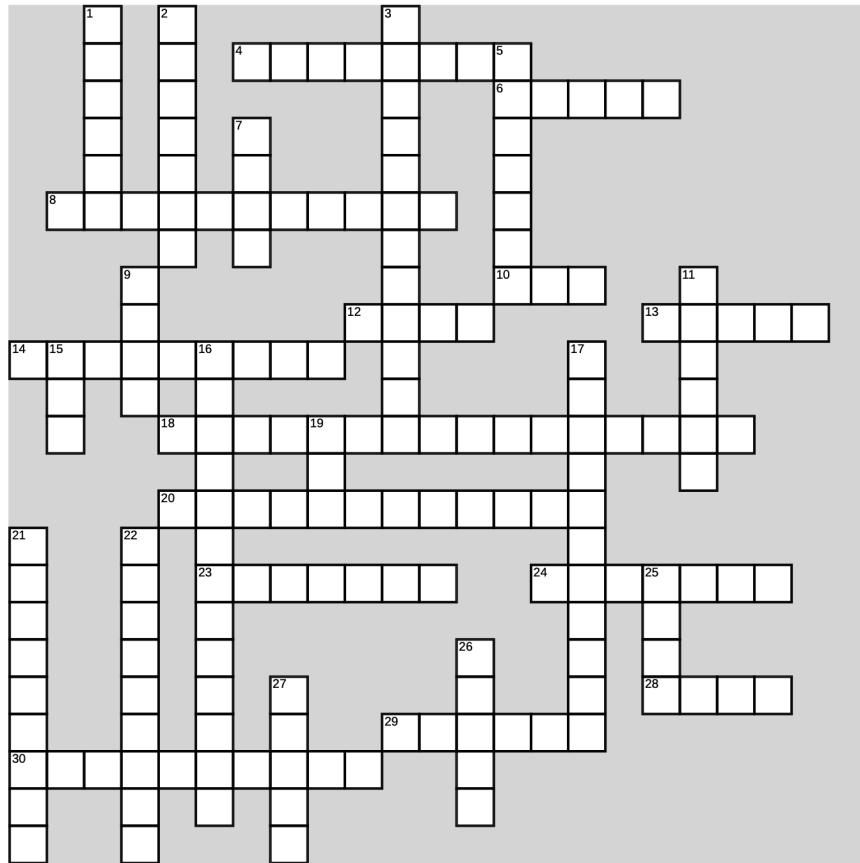
Pot Luck Picnic Ideas

Gene Dupree

Is anyone interested in doing a pot luck picnic? For example at small scope or Binocular night? A dish to share and your own sub sandwich. Please say yes or no on SLACK GENERAL along with any other ideas you may have. 🪐



Lynds 483 - NASA, ESA, CSA, STScI



crosswords.brightsprout.com

Across

- 4 The element our sun is mostly made out of (H).
- 6 The amount of planets in our solar system
- 8 How many times the sun is bigger than the moon
- 10 The amount of layers that the sun has
- 12 The maximum amount of solar eclipses per year
- 13 The second farthest planet from the sun
- 14 The study of the stars and space
- 18 The item that is used to look at a solar eclipse
- 20 Most well known comet
- 23 The smallest planet in our solar system
- 24 Phase of moon that a solar eclipse occurs
- 28 The amount of planets we have in our solar system
- 29 The month that the next solar eclipse is occurring in
- 30 A person who studies the stars, and space

Down

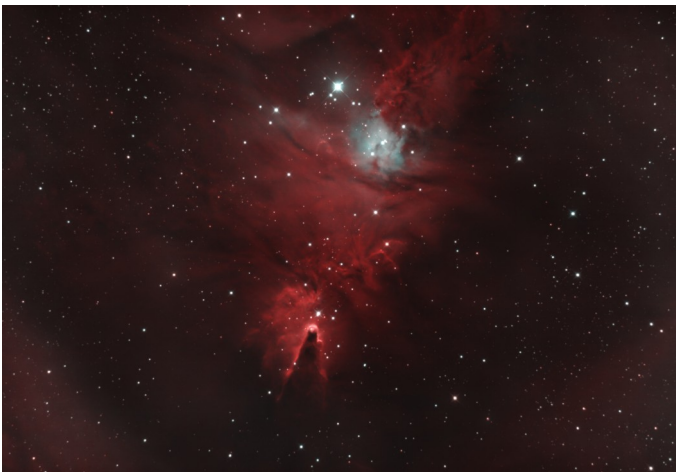
- 1 First manned space ship to reach the moon
- 2 What the indents in the moon are called
- 3 Occurs when the moon covers the sun
- 5 Where stars are born
- 7 The amount of rings Saturn has
- 9 The innermost part of the sun
- 11 The color of our sun
- 15 The object the earth is rotating around
- 16 The first man to ever walk on the moon
- 17 The number to this question
- 19 Amount of moons the earth has
- 21 A person who is trained to go into space
- 22 The state that most suns are in
- 25 The satellite(object) rotating around the earth
- 26 The particles our sun emits
- 27 Made of ice, dust, and small rocky particles

Upcoming Outreach Programs

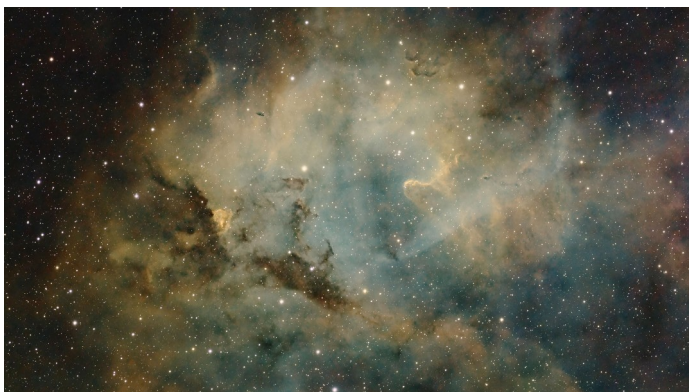
On April 30th, Jim Hahn will be at the Mequon Nature Preserve with another one of his astronomy programs. This month it is “The Near Sky: Our Celestial Backyard.” He will talk about Earth’s atmosphere, auroras, meteors, satellites, and other nearby phenomena that we might see while watching the night sky.

Tickets are free, but you need a reservation. The link is below.

<https://mequonnaturepreserve.org/get-involved/events> 🪐



NGC 2264, Christmas Tree - Don Woelz



SH2-132, by James Neal

In the Sky This Month



[freepik.com](https://www.freepik.com)

- 1 – Moon near Uranus (0247 GMT) and Pleiades (2028 GMT)
- 5 – Moon near Mars
- 10 – Mercury near Saturn
- 13 – Full Moon, micromoon
- 15 – Neptune, Mercury, Saturn and Venus in alignment
- 17 – Mercury near Neptune
- 21 – Mercury at greatest elongation west (best for 2025)
- 22 – Peak of Lyrid meteor shower
- 25 – Saturn near Venus (0002 GMT)
- 25 – Moon near Venus (0121 GMT)
- 25 – Moon near Saturn (0254 GMT)
- 25 – Moon near Neptune (0853 GMT)
- 25 – Moon near Mercury (2204 GMT)
- 27 – New Moon
- 28 – Saturn near Venus

More reading:

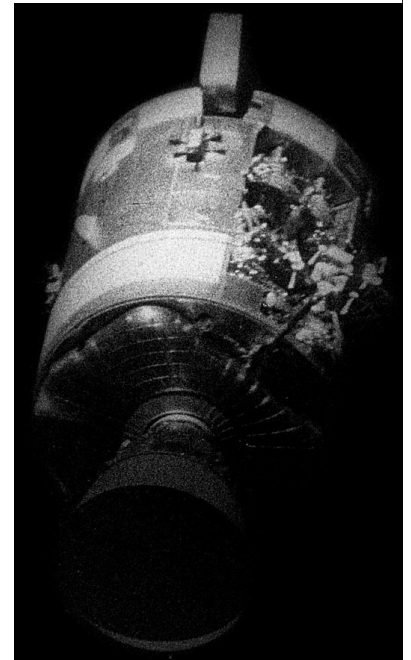
<https://starwalk.space/en/news/astronomy-calendar-2025#astronomical-events-in-april-2025> 🪐

This Month in Astronomy History

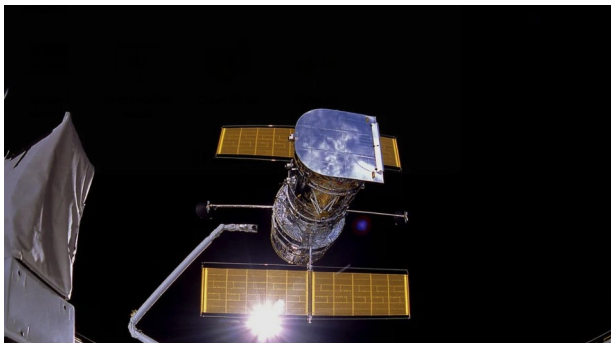
1970 – Apollo 13 launched from Kennedy Space Center on April 11, 1970, bound for the moon with numerous scientific and seismic experiments. About 56 hours after launch and shortly after a live TV broadcast from the ship, the crew of James Lovell Jr (commander), Jack Swigert Jr (Command Module Pilot) and Fred Haise Jr (lunar module pilot) experienced the failure of the service module's #2 oxygen tank. Jack Swigert, followed shortly after by Jim Lovell, reported to Mission Control "Houston, we've had a problem here..." The mission ended successfully by returning the three astronauts safely using the lunar module as a "lifeboat" to loop around the moon and return to Earth.

https://en.wikipedia.org/wiki/Apollo_13

<https://www.nasa.gov/mission/apollo-13/>



The damaged service module as seen from the lunar module before re-entry (NASA)



The Hubble Space Telescope being deployed from the payload bay of space shuttle Discovery, April 1990

1990 – The space shuttle Discovery launches into orbit carrying the Hubble Space Telescope, named after astronomer Edwin P. Hubble who made the first observations of galaxies outside the Milky Way and made the first rough calculations of the universe's rate of expansion. Interestingly, at the 10th anniversary of the launch of Hubble, the Next Generation Space Telescope (NGST, later named the James Webb Space Telescope) was expected to replace it and Hubble was expected to be decommissioned in 2010. Far from replacing it, the

JWST and Hubble cover different ranges of light wavelengths, operating as a formidable team of observing instruments that complement each other. As of April 2025, NASA is celebrating Hubble's 35 years of observing the universe and all the scientific advances that have come from it.

<https://science.nasa.gov/missions/hubble/april-24-marks-a-triumphant-ten-years-in-space-for-hubble-space-telescope/>

<https://science.nasa.gov/mission/hubble/> 🪐

Board of Directors, 2024

President - Jeff Setzer
1418 Trillium CT
West Bend, WI 53095
262-338-8614
astrosetz@hotmail.com

Vice President -
Joyce Jentges
336 N Main Street, Apt.3
Cedar Grove, WI 53013
262 483- 4270
joycejentges@hotmail.com

Treasurer - Gene DuPree
6219 Jay St.
West Bend, WI 53095
262-675-0941
grdupree@charter.net

Secretary- Don Woelz
4892 Lois Lane
West Bend WI 53095
(414) 732-7705
woelzd@charter.net

Kevin Bert
2292 Ridgewood Road
Grafton, WI 53024
(262) 674-0610
kevin.bert@hotmail.com

Mark Zellner
N58 W5624 Edgewater
Drive
Cedarburg, WI 53013
(262) 204-8283
mk.zellner@yahoo.com

James Neal
341 Deer Meadow Dr.
Fredonia, WI 53021
(812) 580-3731
penn.dm@gmail.com



Image from Blue Ghost Mission 1 after landing on the Moon - Firefly Aerospace



NCSF is a member of the [North Central Region of the Astronomical League](#)



NCSF supports the [International Dark Sky Association](#)

SPECTRUM newsletter is published monthly by the Northern Cross Science Foundation, Inc. (NCSF), a non-profit amateur astronomy organization based in southeastern Wisconsin.

<https://ncsf.info>

NCSF on Facebook:

Members:

<https://www.facebook.com/groups/284397465372797/>

Public:

<https://www.facebook.com/NCSFAstronomy/>

Slack:

<https://ncsfastro.slack.com>

Editor:

Dave Minerath
7430 N. Boyd Way
Fox Point WI 53217
dave.minerath@mac.com

Submissions for publication may be sent to newletter@ncsf.info by the third Saturday of the month prior to publication. 🪐