

President's Report

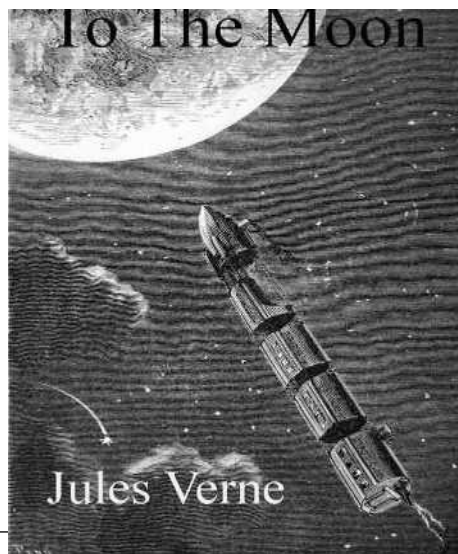
by Jon Stewart-Taylor

Based on the latest indicators in New Hanover and UNCW, COVID has receded sufficiently for us to return to in-person meetings in DeLoach Hall. There is still a masking requirement, and for those who don't feel comfortable, we'll still try to do the simulcast via Zoom. Unfortunately, the New Hanover County statistics are not yet at the place where we can feel comfortable resuming Gastronomy, so we'll have to postpone that for a while yet.

Election season is in full swing. The November meeting will see the second round of nominations, and then elections themselves will be at the December meeting. In addition, a constitutional modification will be voted on at the November meeting, allowing elections via a remote process. If you can make it in person, please do. We need at least 10 members to be physically present in order to make the modifications official. After that, we can do elections and modifications remotely in the event of pandemics, hurricanes, and other events which prevent physical meetings.

We have a couple of outreach events in November. On the 13th we have our last Carolina Beach State Park public observing session. On the 19th we have a full-moon event at the Blockade Runner resort. And, though I wouldn't expect us to do an event for it, the Leonid meteor shower is coming (November 17th), which gives us an opportunity to reach out to the public with information.

As I write this, the last few nights have been classic observing weather, and I hope to see some more through November. If you haven't already, the club observing session on the 5th and 6th may be good opportunities to come see our new observatory. We have 3 completed observing pads, with 4 club scopes of various sizes to use if you don't bring your own equipment. And the biggest advantage of the site are the 6th magnitude skies with good horizons and small light domes. We're blessed to have such a good observing location within 30 minutes of most of our members, and less than 60 minutes for almost all. In the Northern Virginia club, similar skies were 70 minutes away, and in Chapel Hill they were almost two hours.



Calendar

The November Meeting is planned to be in person (**please wear a mask**) and be via ZOOM. Observing events, being outside, shall continue at this time. Please watch your email for the most up to date information.

November 2021

Date – Event – Time

03 Mercury 1 degree from the Moon; 15 deg from the Sun in the morning sky

04 New Moon

04 Uranus at opposition

05 Club Observing at Starfields; Shiloh Road Ivanhoe NC; 05:30 PM

06 Club Observing at Starfields; Shiloh Road Ivanhoe NC; 05:30 PM

08 Venus Is 1 degree from the Moon; 47 degrees from the Sun in evening sky

11 First Quarter Moon

13 Public Observing; 06:30-09:30 PM; Carolina Beach State Park

November 14 ★ Cape Fear Astro Monthly Meeting ★

NO GAStronomy Meeting this month!

CFAS Monthly Meeting - 7:00pm – 9:30pm

212 DeLoach Hall, UNCW Campus

and via Zoom

17 Leonid meteors; ZHR 15; peak Nov 17 4h; 2 days after New

18 Lunar Eclipse - Nearly total lunar eclipse the night of November 18/19

18 Uranus 1.4 degrees from the Moon; 166 deg from the Sun in evening sky

19 Full Moon

26 Club Observing – Location TBD; 05:30 PM

27 Last Quarter Moon

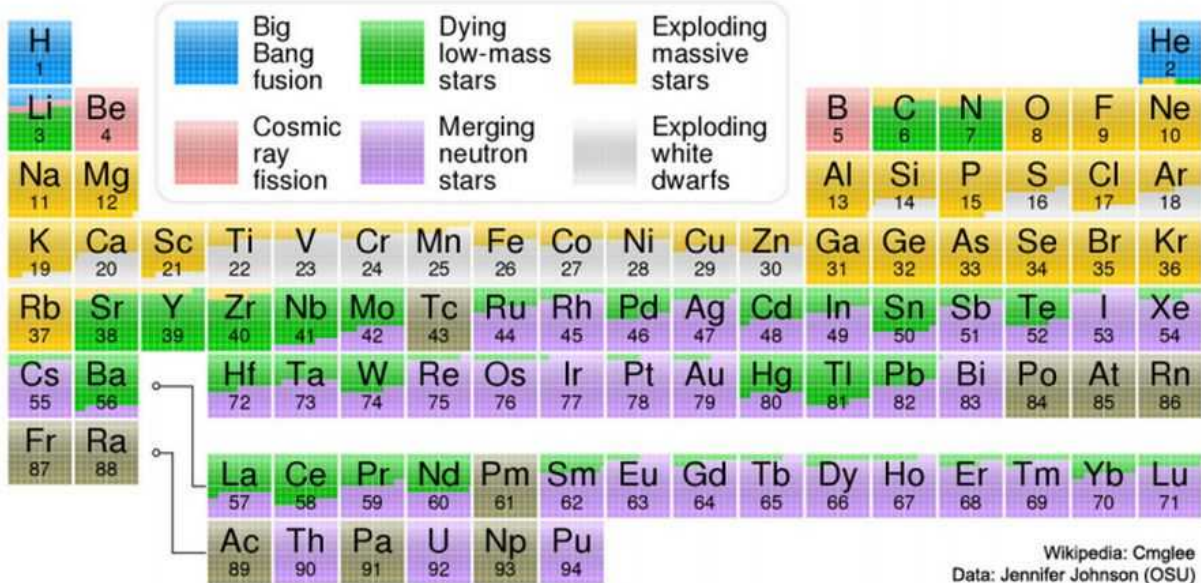
27 Club Observing – Location TBD; 05:30 PM

Astro phenomena from: <https://www.universalworkshop.com/astronomical-calendar-any-year/>

Astronomy Picture of the Day

Discover the cosmos! Each day a different image or photograph of our fascinating universe is featured, along with a brief explanation written by a professional astronomer.

2020 August 9



The Origin of Elements

Image Credit & License: [Wikipedia: Cmglee](#); Data: [Jennifer Johnson \(OSU\)](#)

Explanation: The hydrogen in your body, present in every molecule of water, came from the [Big Bang](#). There are no other [appreciable](#) sources of [hydrogen](#) in the universe. The [carbon](#) in your body was made by [nuclear fusion](#) in the interior of stars, as was the [oxygen](#). Much of the iron in your body was made during [supernovas](#) of stars that occurred long ago and far away. The [gold](#) in your jewelry was likely made from neutron stars during collisions that may have been visible as short-duration [gamma-ray bursts](#) or [gravitational wave events](#). Elements like phosphorus and copper are [present in our bodies](#) in only small amounts but are [essential to the functioning](#) of all known [life](#). The [featured periodic table](#) is [color coded](#) to indicate [humanity's](#) best guess as to the [nuclear origin](#) of all known elements. The sites of [nuclear creation](#) of some [elements](#), such as [copper](#), are not really well known and are continuing topics of observational and computational research.

Almost Hyperspace: [Random APOD Generator](#)

Tomorrow's picture: [leaking sky](#)

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& [Michigan Tech. U.](#)

The above screen print is available at: <https://apod.nasa.gov/apod/ap200809.html>

I think, if you follow the hyperlinks, they are worth a million words.

International Observe the Moon Night

by Jon Stewart-Taylor



For the second year in a row, Cape Fear Astro partnered with the Cape Fear Museum for International Observe the Moon Night. We set up while it was still full light: Robert with a pair of 20x80s, me with the Sky Scanner 100, and Skip with the 8" SC.

The weather basically held till the end of the night with clouds adding drama til the shut the sky down at closing time.

The Museum counted over 200 visitors for the night. We got a fair share of those, and handed out a lot of club business cards plus a "lady in the moon" handout I'd created. Of course Skip's big scope with zoomed in views was very popular, having long lines up to 15 or 20 deep at times.

I think it was a very successful night. I'm looking forward to next year.



Astronomical League Update

by Hank Lyon

Astronomical League
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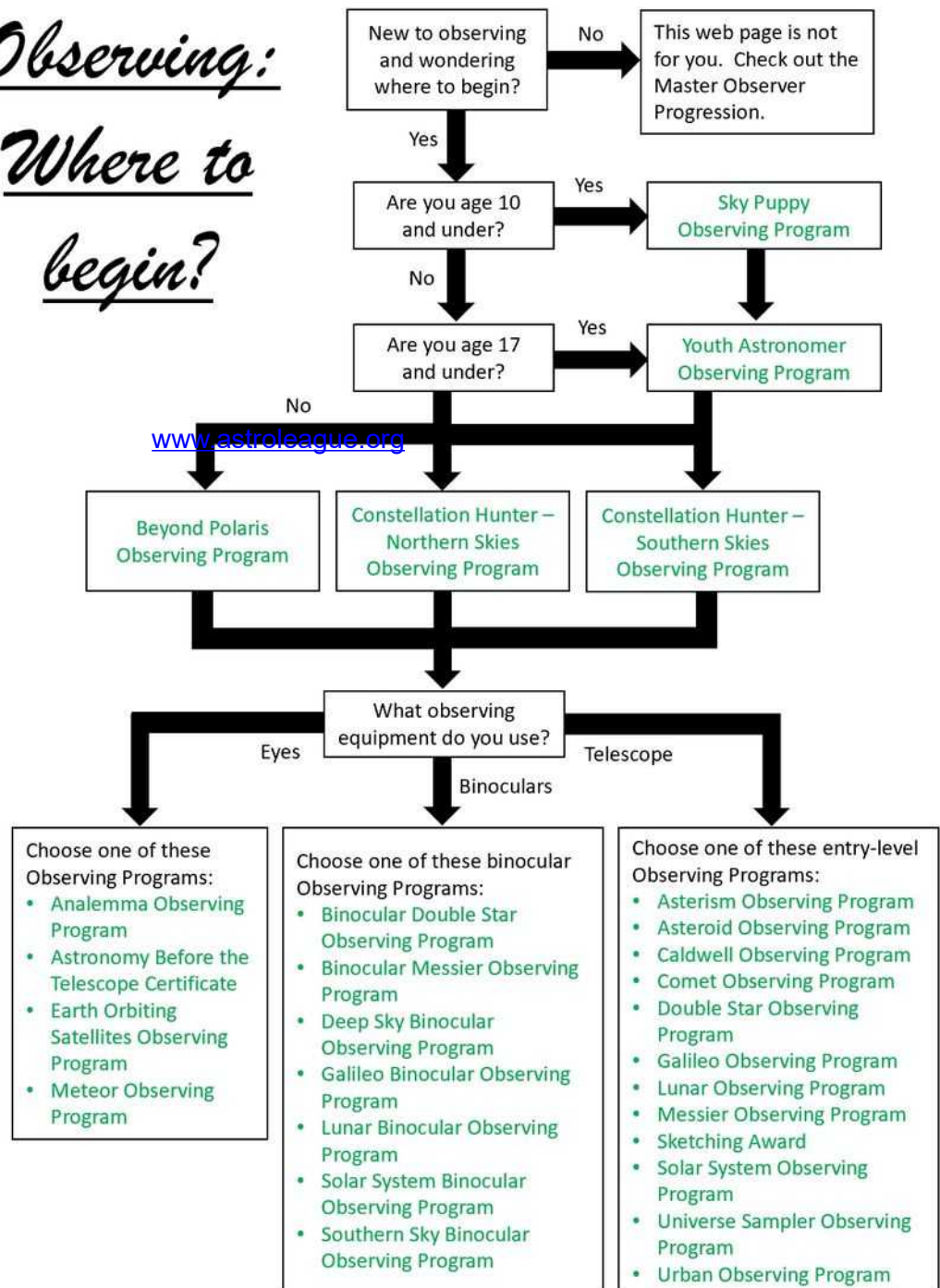
Last month I mentioned periodically checking the AL home page for Observing Program Division announcements. One such announcement makes reference to a recently developed web page that provides a useful cross-reference between Observing Programs and their associated manuals/guides that are provided through the AL Store. The web page and associated links can be found [here](#).

While seeking an Observing Program certification through the AL is encouraged, it is certainly not a requirement for obtaining these handy additions to your collection of astronomical resources. If you're new to astronomy and eager to use these resources, be sure to check out the AL guide at right.

As a reminder, the AL's Reflector Magazine is issued each calendar quarter in March, June, September and December. For those desiring an electronic copy, a PDF of the current issue can be obtained from the AL home page; the most recent quarterly issue can be found [here](#).

As always, please reach out to me if you need any assistance with any of the AL programs, resources or simply wish to learn more about the AL.

Observing: Where to begin?



Editor's Note: Used in this Newsletter, "Cape Fear Astronomical Society" may be abbreviated "CFAS" or "CFAstro".

CFAS Correspondence:

Please contact the society at: CFAS, P.O. Box 7685, Wilmington, NC 28406

Members are welcome and encouraged to submit articles or other input for "CAPE FEAR SKIES". Submit any and all interesting items for publication to Karl Adlon, Editor (email kmja79@yahoo.com).

Cape Fear Astronomical Society is a tax-exempt organization under Section 501(c)(3) of the Internal Revenue Code.

CFAS Officers:

President: Jon Stewart-Taylor
Vice-Pres: Skip Hagers
Associate VP: George Pappayliou
Secretary: Bill Cooper
Treasurer: Ben Steelman
ALCor: Hank Lyon

Dues: Dues for 2021 are \$25 for Individual and \$32 for Family Membership. Students dues are \$5 per year.

Mail to :CFAS, P.O. Box 7685, Wilmington, NC 28406

Contact Us:

You can contact CFAS at info@capefearastro.org

Our website is <http://www.capefearastro.org/>

Trans-Dimensional Portal?

No.

You get a picture like this when you don't label your file directories and forget which directory has your Moon pictures and which has your Flats.

Oops!

But it makes for an interesting picture, don't you agree?

