

## Larry's Celestial Calendar\& Newsletter

Volume 26, Number 8

## Braunfels <br> Astronomy

Club

# August 16 ${ }^{\text {th }}$ to September $20^{\text {th }}, 2023$ NOTE: WE NOW MEET ON <br> WEDNESDAY AT TYE PRESTON MEMORIAL LIBRARY 

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## Cover Story> Bob Keyser

# New Braunfels Astronomy Club ${ }_{\text {kunimum }}$ 

## August 16 th 2023

> Open meeting and introduce new members (get names, email).
> Interesting observations, experiences.
$>$ Show and tell.
> Current news and what's in our sky this month: Member input, Newsletter.
> Events, Outreach, Planning.

- April 8, 2024 total solar eclipse planning
- Winter/Spring Astronomy Night Schedule
- Our Next Astronomy Night at TPML is September 16
> Business
> Main Event


## Coming up: OUR 288th ASTRONOMY CLUB MEETING

astronomynbtx.org Email: admin@astronomynbtx.org
fAstronomy Friends New Braunfels. $\qquad$ facebook.com/groups/354953995432792/
flomal County Friends of the Night Sky..... facebook.com/groups/166098014710276/


Tye Preston Memorial Library New Braunfels Astronomy Club
tpml.org
astronomynbtx.org

Astronomy Friends New Braunfels

There will be surprise giveaways at some evnts so join us!!
Comal County Friends of the Night Sky supports and encourages Astronomy Night
Website: comaldarksky.org Email: info@comaldarksky.org
Comal County Friends of the Night Sky Group
Night at fue Preston Memorial Library

## AUGUST/SEPTEMBER 2023



## Solar System Happenings



Mercury is hanging about $5^{\circ}$ above the horizon just after sunset, is in inferior conjunction with the Sun on September 6, then becomes a morning planet in midSeptember.
Venus low in eastern morning sky, rising about an hour before the Sun. Still impressive. On September 11 ${ }^{\text {th }}$, Venus, M44 (the Beehive cluster), a thin waning crescent Moon share the eastern pre-dawn sky. Use binoculars to catch M44.
Earth still spins, and we are still here to marvel at it all.

Best ISS viewing for Canyon Lake/New Braunfels - From Heavens Above
Date Start Time Start Loc Max Alt ${ }^{\circ}$ End Loc Note

| $09 / 08$ | $18: 59$ | SW | 83 | NE | Passes by Crux on rising. Enters Earth's shadow in Cygnus. |
| :--- | :---: | :---: | :---: | :---: | :--- |
| $09 / 10$ | $18: 58$ | WSW | 18 | NNE | Low along the horizon |
| $09 / 13$ | $04: 55$ | NNW | 38 | SE | East of Capella, west of Venus |
| $09 / 14$ | $04: 09$ | NE | 16 | ESE | Exits Earth's shadow at 04:09:20. Passes just west of Venus |
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The Moon dances with planets and stars. August enjoys two full Moons; both are at PERIGEE when they become full, so both are SUPERMOONS. The second full Moon is a BLUE MOON too.

- There are two general definitions for a Blue Moon. The original is two full Moons in one month during an astronomical season, that is, each three-month span between equinox and solstice. A more recent definition is two full Moons in any month.

Mars is continuing to dim and drop, getting more challenging to spot in the post sunset sky as it works its way toward solar conjunction in November.

- CHALLENGE: A thin waxing crescent Moon occults Mars on September $16^{\text {th }}$ - in midafternoon! First, find the Moon. Then try to spot Mars as it gets close-below the Moon, around 1:45 pm CDT.
Jupiter rises around 10pm and is well placed by midnight.
Saturn is at opposition on August $27^{\text {th }}$ and already risen by sunset. Its rings are tilted by a modest 9-10

Uranus shows up around 7-9 degrees northeast of Jupiter, in Aries.

* Neptune reaches opposition on September 19 and is well placed now for view. It is traveling through Pisces, just north of Aquarius.


O Comet 103P/Hartley 2 is a short period comet ( 6.5 years) and while a fairly dim magnitude 10, it's catchable in small instruments. Larger glass will bring out more of its character.


## My Celestial Pick:

## The Eagle and The Swan, Birds of a Feather?

They are birds, for sure, but one is a bird of prey and the other...prey. While eagles prefer fish they will go after waterfowl, even large birds like swans. However, a swan can be a formidable opponent to an eagle so there certainly is risk involved if the eagle attacks.

In the case of these nebulae, they are birds of a feather, both being vast molecular cloud star factories.

M16 The Eagle and M17 The Swan/Omega nebulae are nice targets for small instruments and beautiful targets in large instruments. And they are close to each other. They are located just $10^{\circ}$ northeast of the famous Lagoon (M8) and Trifid (M20) nebulae. While not as impressive initially, both have distinctive morphology. Their morphologies are not very apparent in small instruments, but some can be teased out (especially M17) with careful observation. Big binoculars make a difference. Larger ( $>8^{\prime \prime}$ diameter) instruments will increasingly show their beauty and unique shapes. I have seen M17 in $24^{\prime \prime}$ and $36^{\prime \prime}$ instruments and I have to say, I preferred the view in the $24^{\prime \prime}$. Maybe the $36^{\prime \prime}$ was a little too bright, or atmospheric conditions made it more of a challenge to see its shape clearly.

In any event, they are nice targets for binoculars, especially larger, 60+ mm objectives and even smaller telescopes. What the heck, check out M8 and M20 while in the neighborhood. They also are molecular cloud star factories.


Imagining Imaging: Imaging Articles Needed!

## Cover Story> Bob Keyser - Friend, Mentor

Anyone who knew Bob Keyser knows he was as welcoming and helpful a human as can exist. When I first came to NBAC (2013) I was welcomed by its founder and fearless leader, Larry Pratt and by all the members present. But it was Bob who made it personal, offering to help me hit the ground running in any way he could. Everyone seemed to rely on Bob for his opinion and I soon realized why, he knew stuff. His experience in engineering and astronomy set a broad table, a smorgasbord of knowledge. Whether observational astronomy, astrophotography, astrophysics, or cosmology, Bob kept us up to date. His personality gave communications with everyone a closeness. His sense of humor disarmed disagreeable feelings.

Bob entertained even the most seemingly oddball topics if they were brought up and usually clarified them with logic. He didn't disparage, and his discussions usually taught us something.

Bob's influence on NBAC is now part of its DNA, part of its fabric, part of the space we inhabit.
Eric Erickson



Paula Pratt - from the July 2005 meeting at CRRC Clockwise from left:

Linda Perkins
Dan Riding
Bob Keyser
Harriet Bishop
Larry Pratt
Lorrie Pratt
Paula Pratt


WUMO
BY WULFF \& MORGENTHALER


## CARPE DIEM



## JUMP START



## JUMP START



CARPE DIEM


## SHOE



## SPEED BUMP



