

* CAS *

Charlottesville Astronomical Society



March 2022
Hybrid Meeting

Welcome Guests
Welcome Zoom Guests
New Members

Martha Lightbody
Myron Wasiuta
Bob Faber



Club Business

- **CAS Bank Account Balance : \$14,613.86**
-
- **Future Astronomers Share: \$6,393.18**
- **Uncleared Checks: -0-**
- **Petty cash: \$110.00**
- **Total CAS cash assets : \$14,723.86**

- **CAS 2022 Membership**

- **Individual** 29
- **Family** 34
- **Senior** 39
- **Student/Military** 3

Total 105

CAS is a 501c3 Non-profit

Pay online at: <https://www.cvilleastro.com/online-member-application/>



New Members – Get to Know Ed

CAS Mentor and Equipment Manager Ed Preston

I retired from a career in mechanical engineering in 2007. In 2008 my wife and I moved from Galveston County TX to Charlottesville. We live under a half-dark sky, but within easy reach of local commerce. I have been seriously interested in amateur astronomy since I saw M5 through a home built 17.7" Dob about 1986. My primary interest is in helping other amateur astronomers advance in the hobby. I also pursue still and video astro-imaging. Recently clouds have gotten in my way a lot, so, like making lemonade from lemons, I am branching out toward skyscapes and time-lapse video of clouds.

Ed is the person to contact about using one of the club loaner scopes ed.pr3ston@embarqmail.com

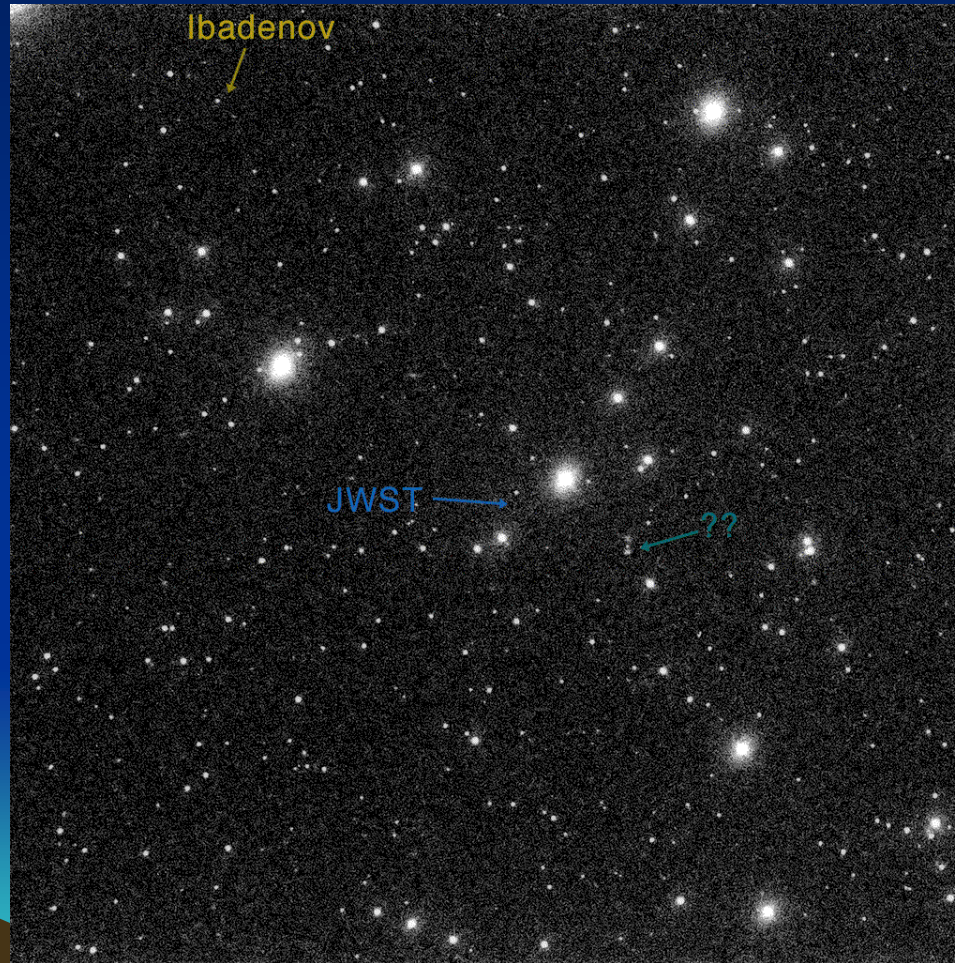


LATEST IMAGE FORM JWST



JWST IMAGED BY CLUB MEMBER

Club member Boris Starosta used his access to the RRRT on Fan Mountain to image the JWST.



Astronomical Events for March

This month most of the planet action is in the morning sky

- | | |
|------|--|
| 3.2 | New Moon |
| 3.6 | Uranus above moon in South West 8:00 pm |
| 3.8 | Crescent Moon between Pleiades and Aldebaran |
| 3.10 | Orion is below the Moon |
| 3.13 | Daylight Savings Time Begins |
| 3.20 | Spring Equinox |
| 3.28 | Full "Worm" Moon |

- **Look for Observing Information in emails from Merian Burkett**



Moon phases for March

DATE	MOONRISE	MOONSET	MOONRISE	ILLUMINATION
Tue, Mar 1	06:33 am	05:03 pm	-	1%
Wed, Mar 2	07:05 am	06:12 pm	-	New Moon
Thu, Mar 3	07:33 am	07:19 pm	-	1%
Fri, Mar 4	07:58 am	08:23 pm	-	6%
Sat, Mar 5	08:23 am	09:26 pm	-	11%
Sun, Mar 6	08:47 am	10:28 pm	-	19%
Mon, Mar 7	09:13 am	11:30 pm	-	27%
Tue, Mar 8	09:42 am	-	-	36%
Wed, Mar 9	-	12:31 am	10:15 am	45%
Thu, Mar 10	-	01:31 am	10:53 am	First Quarter
Fri, Mar 11	-	02:27 am	11:38 am	64%
Sat, Mar 12	-	03:20 am	12:29 pm	73%
Sun, Mar 13	-	05:05 am	02:26 pm	81%
Mon, Mar 14	-	05:45 am	03:27 pm	88%
Tue, Mar 15	-	06:19 am	04:31 pm	93%
Wed, Mar 16	-	06:41 am	05:36 pm	97%
Thu, Mar 17	-	07:15 am	06:41 pm	99%
Fri, Mar 18	-	07:40 am	07:47 pm	Full Moon
Sat, Mar 19	-	08:05 am	08:55 pm	96%
Sun, Mar 20	-	08:31 am	10:06 pm	91%
Mon, Mar 21	-	09:01 am	11:20 pm	84%
Tue, Mar 22	-	09:36 am	-	74%
Wed, Mar 23	12:35 am	10:18 am	-	64%
Thu, Mar 24	01:50 am	11:09 am	-	53%
Fri, Mar 25	02:59 am	12:10 pm	-	Last Quarter
Sat, Mar 26	04:00 am	01:21 pm	-	30%
Sun, Mar 27	04:50 am	02:33 pm	-	20%
Mon, Mar 28	05:31 am	03:47 pm	-	12%
Tue, Mar 29	06:05 am	04:57 pm	-	6%
Wed, Mar 30	06:34 am	06:05 pm	-	1%
Thu, Mar 31	07:00 am	07:10 pm	-	1%

NEW !!! Club Observing Challenge

Club Challenge Program

Goal of Team

- Come up with a challenge ever 2 months or so.
- Make them for all skill levels but probably not at the same time.
- Can be observational, photographic, quizzes or other skills.
- Meant to boost interest, activity and mentoring.

Team organization

- Team members:
- Ken Hand, Ed Preston, Richard Drumm, Chuck Mills, Dave Giltinan, Boris Starosta, Karl Stein, Jeff Ridder
- May split into 2 teams at times.
- Reason for two teams is so that members of one team can participate in a challenge the other team creates

Awards and Judging

- For the most part, the challenge team will be the judges.
- Sometimes the club may be asked to pick from a hat or a random number depending on the type of challenge.
- Rules for each challenge will be announced with each challenge.
- Most of the time, there will be one winner who will be able to choose between an
- Amazon \$5 certificate or CAS hat or something else that we will announce.
- In a few cases we will have multiple awards and places that will be announced at that time.

April Observing Challenge

The April Challenge will be relayed to a Messier Marathon

More information from Observing Director Merian Burkett in coming weeks



Big Meadows

- Apr 22 - 8:00 - Earth Day - Lodge opens. Lyrids Meteor Shower ZHR 20.
 - Apr 29 - 8:30 - Mercury, M44, M13. Mercury at greatest Eastern elongation.
 - May 15 - 8:30 - M44, M13, Total Lunar Eclipse (Totality Start: 11:29pm) Eta Aquarids maybe...
 - May 27 - 8:30 - M44, M13, M57 (Ring Nebula). Special Guest: Dean Regas!
 - Jun 03 - 9:00 - 18% Crescent Moon, M44, M13, M57 (Ring Nebula).
 - Jun 17 - 9:00 - M44, M13, M57 (Ring Nebula), Milky Way. 80% Moonrise 12:30am.
 - Jul 01 - 9:00 - 8% Crescent Moon, M13, M57 (Ring Nebula), Milky Way.
 - Jul 15 - 9:00 - M57 (Ring Nebula), Milky Way, Saturn, 92% Full Moon rises 10:30pm
 - Jul 29 - 8:30 - M57 (Ring Nebula), Milky Way, Saturn, 1.6% Crescent Moon? Mercury?
- End of Delta Aquarids Meteor Shower, ZHR 20, Pisces Austrinid Meteor Shower ZHR 5, early alpha Capricornid Meteor Shower ZHR 5.
- Aug 12 - 8:30 - PERSEID Meteor Shower, Saturn, SuperMoon, Jupiter. 98% Moon spoils the show.
 - Aug 26 - 8:00 - Mercury, Milky Way, Saturn, Jupiter. (Mercury at greatest Eastern elongation)
 - Sep 02 - 8:00 - 41% Moon, Saturn, Jupiter. End of Aurigid Meteor Shower ZHR 6.
 - Sep 16 - 7:30 - Milky Way, Saturn, Jupiter. Moon/Mars late.
 - Sep 30 - 7:30 - 28% Crescent Moon, Milky Way, Saturn, Jupiter, Uranus. Mars late.
 - Oct 14 - 7:00 - Milky Way, Saturn, Jupiter. Moon/Mars late. End of Delta Aurigid Meteor Shower ZHR 2.

ZHR – number of meteors expected per hour at the zenith

Contact Rich Drumm if interested in participating theastronomybum@gmail.com



Observing Director's Report

For those participating in the Caldwell Hunt this weekend, look for a detailed email TOMORROW, Thursday.

Link to prepare: [Microsoft Word - Caldwell Objects.doc \(prescottastronomyclub.org\)](#)



MARK SLADE REMOTE OBSERVATORY



<https://cvilleastro.groups.io/g/Main/album?id=273041>

[MSRO – Rappahannock Astronomy Club \(raclub.org\)](https://raclub.org)

[Mark Slade Remote Observatory \(MSRO\) - Jerry Hubbell - Bing video](#)

What's Up In February

[What's Up! | What's Up: Skywatching Tips from NASA – NASA Solar System Exploration](#)



Website of the Month

McDonald Observatory

[McDonald Observatory | Visitor information, teacher workshops, public programs in Fort Davis, Texas](#)



Upcoming Speakers

- **April**
- Galaxy Mergers – Dr. Aaron Evans, UVA Astronomy
- **May**
- Building Blocks of the Universe – Dr. Chris Neu, UVA High Energy Physics
- **June**
- NASA Wallops – David Pierce, Director, NASA Wallops
- **July**
- TBA – Dr. Seth Shostak, SETI Institute, Big Picture Science
- **August**
- TBA – Colin Haig, Diffraction Limited/SBIG
- **September**
- OPEN
- **October**
- TBA – Casey Drier, Chief Advocate for the Planetary Society
- **November**
- OPEN
- **December**
- OPEN



Tonight's Speaker



**Dr. Ed Murphy, UVA
Astronomy**



Apollo 16 Mission April 16, 1972 – April 27, 1972

Next Meeting

Wednesday, April 6, 2022

McCormick Observatory

Hybrid meeting planned



Door Prize Drawing

