



The Night Sky

The Newsletter of
The Astronomy Club of Akron
www.acaoh.org

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November 2020

ACA ZOOM MEETING - November 20, 2020 AT 7:30PM

President's Column

By Gregg Crenshaw

On November 8th the ACA Board met and decided to buy a one year license for Zoom virtual meetings. This purchase will allow the ACA to have a reliable platform for all our meetings going forward for the next year. Hopefully in a year we will be able to have "face to face" meetings once again.

Let's try this again:

Below is the Zoom Invitation for the November Membership Meeting. Glenn or myself will also send an email reminder with Zoom Invitation information to your email in the week prior to the meeting. The information will also be on the ACA web site.

Friday November 20, 2020 at 7:30 PM - via Zoom. There will be a half hour social time before the speaker.

Speaker: Gary Kader.

Bio: Director of Burrell Observatory at Baldwin Wallace University, Berea, Ohio.

Talk Title: The Hertzsprung-Russell Diagram.

Talk Description: Call it what you will; the holy grail or the Rosetta Stone, the Hertzsprung-Russell diagram is not only THE plot to understanding stellar evolution, but, as you will see, much more.

To log into the November 20, 2020 virtual meeting on Zoom, at or a few minutes prior to 7:30 PM click or copy and paste the following: <https://zoom.us/j/97446437975?pwd=NnNOZzNQeUtYNkxZeUJIemgybWw3QT09> into your browser.

Or call by phone (voice only - no video) using one of these numbers:

(long distance charges may apply)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York) (Use this number in Ohio)

+1 301 715 8592 US (Washington D.C)

+1 346 248 7799 US (Houston)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

*Article by Gregg Crenshaw
ACA President*

November Astronomical Events

Day Hour (UT)
01 00 Venus 34.2° W
03 21 Moon A Node 21:39
05 00 S. Taurids 00:50
05 14 Moon N Dec 14:30
07 14 Moon-Beehive 14:34
08 08 Last Quarter 08:46
10 11 Mercury West 11:59
12 00 N. Taurids 00:06
12 16 Moon-Venus 16:31
14 06 Moon Perigee 06:48
15 00 New Moon 00:07
16 08 Venus-Spica 08:24
16 19 Moon D Node 19:07
17 06 Leonids 06:24
18 06 Moon S Dec 06:27
19 03 Moon-Jupiter 03:54
19 09 Moon-Saturn 09:57
21 23 First Quarter 23:45
26 19 Moon Apogee 19:29
30 04 Full Moon 04:30
30 04 Pen Lunar Ec 04:44

Sky Events Calendar by Fred Espenak and Sumit Dutta (NASA's GSFC)

December Astronomical Events

Day Hour (UT)
01 02 Moon A Node 02:46
01 00 Venus 27.5° W
02 20 Moon N Dec 20:22
04 20 Moon-Beehive 20:10
07 19 Last Quarter 19:37
12 15 Moon-Venus 15:40
12 15 Moon Perigee 15:42
13 19 Geminids 19:35
14 06 Moon D Node 06:03
14 11 Total Sol Ec 11:15
14 11 New Moon 11:17
15 17 Moon S Dec 17:23
16 23 Moon-Jupiter 23:28
17 00 Moon-Saturn 00:25
19 21 Mercury Super 21:56
21 05 Winter Sol 05:02
21 18 First Quarter 18:41
22 04 Ursids 04:00
22 04 Jup-Sat 04:35
23 09 Venus-Ant. 09:48
24 11 Moon Apogee 11:32
28 10 Moon A Node 10:03
29 22 Full Moon 22:28
30 02 Moon N Dec 02:53

Sky Events Calendar by Fred Espenak and Sumit Dutta (NASA's GSFC)

I'M ON MY WAY TO MARS!!!!!! Part Two

By Marnie Sanders

We started our journey to Mars the other day! And I am on board too !!! No kidding!! I'm on the Space X lifted Perseverance mission with all those cool experiments and that helicopter! And I am not alone.....about 11 million of us are going on 3 chips with all our names included in the manifest! This has been exciting entertainment as well as solid NASA information for Mikey and me! What a blessing during this Covid quarantine too! And you and your kids/grandkids can sign up for the 2026 launch and enjoy and learn too!

I have been immersed in Mars "stuff" since I was about 12 years old and read the Edgar Rice Burroughs series about "Barsoom"...ie, Mars! How I wished I too could "transport" to Mars from "Jasoom" just as John Carter, a Virginian of the 1800's did, when he entered a mystical cave which caused an out of body experience to Mars. How I looked for such a cave on our farm with my dog, Teddy, just like Carter explored Barsoom with Woola, his pet "calot" on Mars!! And "Oh!".... when the Princess of Mars, Deja Thoris, could match him in physical and mental prowess, I was really hooked! (BTW: Mr Burroughs is guilty of writing with all the "isms" of which we now hotly debateso, please forgive him now of his ignorance, as we must all rethink some of our own former ways of thinking.....)

Anyway, NASA detailed all the projects scheduled on the mission with newsletters I received:

- explore geologically diverse landing site
- assess ancient habitability
- seek signs of ancient life
- gather rock and soil samples and cache them for future return to Earth
- demonstrate technology for future robotic and human exploration

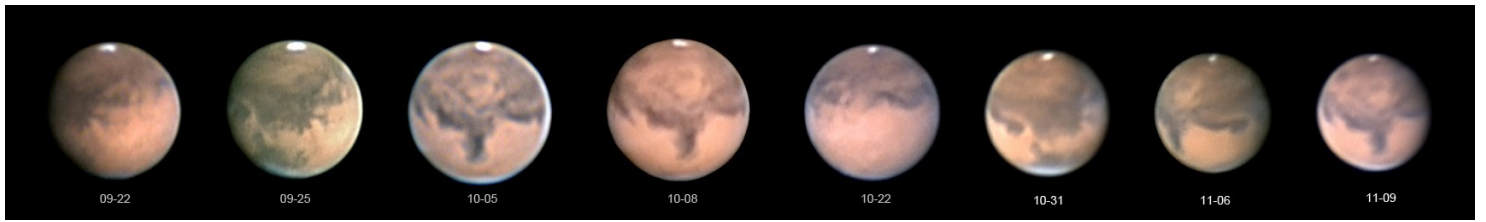
And of course the rover, now car size, whereas the first one was microwave oven size, will also test our abilities for heavier payload delivery success. And...that helicopter...named "Ingenuity" ... to see if the Mars atmosphere will support mechanical flight. This will be the first controlled flight on another planet! You can review it all in detail on the www.nasa.gov websites.

Just before the launch, I received my Boarding pass....."Now Boarding" it says!! (I'm sending a copy to Marissa for inclusion, but our printer was on the fritz so it may be blurry!) Yeah, I may be a "senior citizen" now, but this was all so fun that I honestly felt like my "kidself" did when awaiting that decoder ring offered on the cereal box so long ago! And, NASA provided so much "inside" information and more that I hope you will invite your kids and grandkids to go along on the next one! Just search "Send your name to Mars" on your browser!

PS: We were invited to "attend" the launch on that day with all sorts of special VIP videos, etc. and since our standard news outlets that day did not even show the launch, and we don't have cable, it was well worth it!

*Article By ACA Member
Marnie Sanders*

Member Photos



Mars series. These photos show the many faces of the red planet over multiple nights during perihelion. The telescope used was a 14" Meade along with a ZWO AS1224MC high speed light sensitive color video camera. Three minute videos were taken which captures about 35,500 frames which are then aligned and stacked using "Autostakker!3", Registax, and Adobe Photoshop. Image by ACA member Lenard Marek.

SWAP & SHOP



FOR SALE:

Orion Sirius 40mm Plossl

Asking: \$25

Contact: Glenn Cameron

Phone: 330-737-1472

Email: glenn@cameronclan.org

FOR SALE:



Televue Radian 12 mm Eyepiece

- Excellent condition.

Asking: \$180 (cash)

Contact: Fred Fry

Email:

riverfry@gmail.com

FOR SALE:



Televue Radian 18 mm Eyepiece

- Excellent condition.

Asking: \$180 (cash)

Contact: Fred Fry

Email:

riverfry@gmail.com

FOR SALE:

Celestron CPC Deluxe 800 HD Telescope with tripod.

Accessories:

- Celestron 1.25" eyepiece and filter kit.
- Tele Vue nebula filter.
- Celestron UHC/LPR filter.
- Celestron 15mm 1.25" 82 degree wide field eyepiece.
- Stellarvue 1.25" Dielectric Diagonal.
- Stellarvue 1.25" erecting prism.
- Celestron power tank and dew shield.
- Astrozap sun filter.
- Celestron AC adaptor.
- JMI custom hard shell case for telescope.

All 8 months old, brand new condition.

Asking: \$2200

Contact: Jim Hall

Phone: 330-268-8695

FOR SALE:



Pentax XW 20mm Eyepiece

- Excellent condition.
- Small mark on 1.25" barrel.
- Always used in a compression clamp.

Asking: \$220 (cash)

Contact: Fred Fry

Email: riverfry@gmail.com

FOR SALE:

Celestron NexStar 8i computerized to go 8" F/10 Schmidt-Cassegrain

Focal length 2032 mm with 406x highest useful power.

Includes:

- GPS module.
- Five multicoated Plössl eyepieces.
- 2X Barlow lense.
- Seven filters.
- A/C adaptor.
- Night vision flash.
- Celestron star pointer.

All rarely used and in new condition.

Cost \$1,689 new.

Asking: Best Offer

Contact: Nick Bade

Email: nb@tribco.com

Phone: 216-486-2000 weekdays and

440-585-8687 evenings and

weekends.

**Advertise
in the Swap n
Shop!**

**Send a picture of
your ASTRONOMY
RELATED item and
relevant information
to the newsletter
editor:**

mfanady@yahoo.com

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October Treasurer's Report

By Dave Hartsook

10/1/2020 Through 10/31/2020

Checking Beginning Balance	\$2,362.89
Income	
Membership Dues	235.00
Big Oaks Shelter (Picnic) Deposit Returned	56.50
Astronomical League Dues	7.50
Net PayPal Fee/ Adj	0.18
Total Income	\$299.18
Expenses	
Reimburse Ohio Charitable Org Resistration Fee	-50.00
Astronomical League Dues	-70.00
Reimburse G Smith - Flowers for Lou Poda Funeral	-66.72
Total Expenses	-\$186.72
Income Less Expenses	\$112.46
Checking Ending Balance	\$2,475.35
<hr/>	
Savings Beginning Balance	\$2,567.90
Earned Interest	0.02
Savings Ending Balance	\$2,567.92
<hr/>	
Petty Cash Beginning Balance	\$50.00
	0.00
Petty Cash Ending Balance	\$50.00
<hr/>	
Petty Cash	50.00
Savings	2,567.92
Checking	2,475.35
Grand Total	\$5,093.27

Article by Dave Hartsook
ACA Treasurer.

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Yes! I want to become a member of the Astronomy Club of Akron

www.acaoh.org

(PLEASE PRINT)

NAME: _____ PHONE: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

EMAIL ADDRESS: _____

Astronomy Club of Akron annual memberships renew in the month of September.

ADULT (ages 18 and older) _____ \$30.00

JUNIOR (ages 12 to 17) _____ \$15.00

ADDITIONAL ADULT member _____ \$15.00

FAMILY MEMBERSHIP _____ \$40.00

Visit us on the Web at www.acaoh.org,