



The Night Sky

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

Volume 42 Number 2

February 2020

Next Meeting: Friday - February 28, 2020 - 8:00 PM - New Franklin

ACA NEWS AND NOTES FEBRUARY 2020

ACA Meetings

Our next ACA membership meeting is scheduled for 8:00 p.m. on Friday, February 28th at New Franklin City Hall. Jodi and Roy McCullough will present a program on Betelgeuse, discussing what has been observed and its unusual behaviors. Mark your calendars and plan to attend!

May Elections

A new slate of officers is being prepared for the April 2020 elections. Nominating committee members Ron Kalinoski, Susan Swift, and Ann Ferrell are asking members who are willing to serve ACA in this important capacity to please contact them. The slate must be presented to members at the March meeting. Voting takes place during the April meeting and our new officers begin their term on May 1st. Please consider serving on the ACA Board!

Star Parties

Observatory Director Ron Kalinoski recently published the schedule for this year's star parties. Contact Ron for a hard copy or check it out on the ACA website.

Future ACA Trips

Ann Ferrell is working on planned trips to Green Bank Observatory in West Virginia and Yellowknife in Canada. The Green Bank trip will take place this summer. This is a weekend trip and members will drive to Green Bank. The Yellowknife trip will hopefully happen in the fall. Members will fly to Yellowknife and spend the week in search of the aurora borealis. Please see Ann if you are interested in participating in either or both of these trips.

New Members

The ACA wishes to extend a warm welcome to our newest members, Bryon Miller and the Derrig family. We look forward to seeing you all at future club events!

February 28, 2020 - General Membership Meeting



Speaker: Jodi and Roy McCullough.

Presentation: “Betelgeuse!” What is happening to Betelgeuse? This presentation will discuss what has been observed, two ways to look at star brightness, the life cycle of stars, and the death of very large stars. We will look at other unusual behaviors of Betelgeuse and explore the star that is the most likely future supernova candidate.

About the Speaker: Jodi is the President of MVAS (Mahoning Valley Astronomical Society) and teaches a night class in Astronomy at the University of Mount Union. Roy teaches physics at the University of Mount Union.

Meeting Location:
New Franklin City Hall
5611 Manchester Rd.
New Franklin 44319

Please note that we ALWAYS encourage the public to attend ANY of our events, including meetings. Come and enjoy the lecture and talk to us about astronomy!

February Astronomical Events

Day Hour(UT)

01 00 Venus 40.4° E
01 20 First Quarter 20:42
06 03 Moon A Node 03:59
06 11 Moon N Dec 11:10
08 05 Moon-Beehive 05:16
09 02 Full Moon 02:33
10 08 Mercury East 08:59
10 15 Moon Perigee 15:30
15 17 Last Quarter 17:17
18 08 Moon-Mars 08:18
18 19 Moon D Node 19:12
19 03 Moon S Dec 03:58
19 14 Moon-Jupiter 14:36
20 08 Moon-Saturn 08:47
23 10 New Moon 10:32
25 20 Mercury Infer 20:37
26 06 Moon Apogee 06:35
27 06 Moon-Venus 06:51

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

March Astronomical Events

Day Hour(UT)

01 00 Venus 44.6° E
02 14 First Quarter 14:57
04 09 Moon A Node 09:58
04 20 Moon N Dec 20:34
06 16 Moon-Beehive 16:08
08 08 Neptune Sun 08:09
09 13 Full Moon 13:48
10 02 Moon Perigee 02:33
16 05 Last Quarter 05:34
16 21 Moon D Node 21:00
17 10 Moon S Dec 10:07
18 04 Moon-Mars 04:19
18 06 Moon-Jupiter 06:18
18 20 Moon-Saturn 20:04
19 23 Spring Eq 23:50
20 06 Mars-Jup 06:24
21 13 Moon-Mercury 13:48
23 21 Mercury West 21:59
24 05 New Moon 05:28
24 11 Moon Apogee 11:23
24 17 Venus East 17:59
31 12 Moon A Node 12:51
31 16 Mars-Sat 16:00

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

"Moon Phases, Constellations, and Other Space Topics"

By Marnie Sanders

Mike and I presented "Moon Phases, Constellations, and Other Space Topics" for Ms. Jill Hannah's 1st grade Daisy Troop's "Space/Science/Explorer Badge" at First Congregational Church of Ravenna on Jan 9. If you have never interacted with 11 bright and lively 1st grade girls in their Daisy troop vests and brimming with questions and enthusiasm, then you should put this on your bucket list!!! Our future is in very good hands with kids like these! We employed "NASA" approved demonstrations as the pictures depict. We also demonstrated the moon's orbit around the earth with our "Olaf" character ball as "man in the moon" - not a NASA approved demo - but great fun for the troopers! And we showed them a few popular constellations, the planets on our shirts, and squeezed in a bit about the 2024 future Eclipse and the future Mars expedition using the moon as a base, but we only had the hour and they had a lot to share with us too! They are a great troop!



Comets, asteroids, etc.: We showed/talked about Halley's Comet and odd shaped "Arrokoth" asteroid. Then we constructed a comet from pipe cleaners, Christmas garland, and a crumpled foil ball. They ran in the hallway with their comets trailing!



Shadow effect of Earth rotation: They enjoyed "Gort" our space robot, and they knew am/noon/pm, but Sun "not" really rising is a tougher concept.



Moon craters: We tossed rocks into a bed of flour with a bit of coco on the top to illustrate a strike effect!! Big hit!!!!



Moon Phases: We used oreo cookies (with permission of the leader) to illustrate (and then eat) the major moon phases.....delicious!

January 24, 2020 Meeting Minutes

Called to order 9:30 pm.

Treasurer's report: read and approved.

Old Business: none.

New Business:

1. Winter Social: Galaxy, Sunday Feb 9, 2020 at 12:30 pm.
2. Camp Bear: May 29, 2020 - regular ACA event for Cancer kids.
3. Summer Picnic: Sunday, Aug 9, 2020.
4. Downtown Akron Partnership participation request: More information needed.
5. Proposed "Members included" Trip to Yellowknife.
6. Proposed Greenbank excursion.

Election Committee call for NEW officers:

Ron and Susan are co-chairs.

Observatory Director's report:

1. 2020 observation calendar is online.
2. Impromptu events will be offered as weather permits.

February meeting and future meeting schedule change:

1. Next meeting Feb 28, 2020 at New Franklin City Hall.
2. May meeting changed to May 15, 2020.

Member Observations and Concerns:

Members discussed viewing Mercury/Venus, Betelgeuse controversies, NASA satellite issues, and Greenbank excursion housing issues.

Members questions for members and other comments:

Members discussed power packs, introduced a new member, and compliant driver's license issues.

Final Comments:

Watch for emails from Cathy regarding:

1. Feb 9 Galaxy social: send RSVP's to Cathy asap (by Feb 1).
2. Details and call for Telescopers' participation for Downtown Akron event.
3. Come to Feb 28 meeting and bring guests/new members!

Meeting adjourned 10:05 pm.

Article By Marnie Sanders

ACA Substitute Secretary

OFFICERS 2018 – 2020

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OTAA Representative

Lou Poda

January Treasurer's Report

By Nick Mihiylov

1/1/2020 Through 1/31/2020

| | |
|----------------------------------|-------------------|
| Checking Beginning Balance | \$2,155.52 |
| Income | |
| Memberships | 140.18 |
| Total Income | \$140.18 |
| Expenses | |
| Total Expenses | 0.00 |
| Income Less Expenses | \$140.18 |
| Checking Ending Balance | \$2,403.44 |
| <hr/> | |
| Savings Beginning Balance | \$2,567.60 |
| Earned Interest | 0.04 |
| Savings Ending Balance | \$2,567.64 |
| <hr/> | |
| Petty Cash Beginning Balance | \$50.00 |
| | 0.00 |
| Petty Cash Ending Balance | \$50.00 |
| <hr/> | |
| Petty Cash | 50.00 |
| Savings | 2,567.64 |
| Checking | 2,403.44 |
| Grand Total | \$5,021.08 |

Article by Nick Mihiylov
ACA Treasurer.

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.

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editor:**

mfanady@yahoo.com

The Night Sky

Newsletter of the Astronomy Club of Akron

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The Astronomy Club of Akron

c/o Nick Mihiylov

13495 Mogadore Avenue NW

Uniontown, Ohio 44685-9347

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,