



The Night Sky

The Newsletter of
The Astronomy Club of Akron

www.acaoh.org

Volume 47 Number 9

October 2025

ACA MEETING - Sunday, October 19th, 2025 at 2:00 p.m.



Moon photo

By Ron Kalinoski

On August 31, 2025, Astronomy Club of Akron opened the observatory for public viewing of the First Quarter Moon. The Straight Wall was visible and located near the terminator as shown in this cell phone photo taken through the eyepiece of the 16-inch observatory telescope. The Straight Wall is a steep slope resulting from lunar geologic faulting. The dark "line" we see as the Straight Wall is a shadow created from the Sun's very low angle. When the Sun gets to a higher angle, the entire slope is sunlit, and the dark "line" disappoints. The terminator is the imaginary line that separates daytime and nighttime on the Moon. The crater to the immediate west (right) of the Straight Wall is Birt. Birt is 10 miles in diameter.

President's Column

By Cathy Loboda

Upcoming ACA Meeting

Our next ACA meeting is scheduled for Sunday, October 19th at 2:00pm. Dr. Jay Reynolds from Cleveland State University will present The Hertzsprung Russell Diagram. Stars are born, live their lives, and experience death. Dr. Reynolds will explain how data represented on the Hertzsprung Russell Diagram tells us about the lives of stars and what star properties we can learn based on the star's location on the H-R Diagram. All ACA meetings are held at the Portage Lakes Kiwanis Civic Center, 725 Portage Lakes Drive, Akron. Hope to see you there!

Membership Renewals

This is the final reminder for this year's membership renewal. Please bring your check or cash to the October membership meeting or you can mail your renewal to Treasurer Dave Hartsook. Dave's address and ACA's membership information can be found on the final page of this newsletter. Membership pays for observatory maintenance and insurance, telescope maintenance and accessories, speakers' gratuity, membership picnic entrees, pavilion fees, and any costs incurred in support of our outreach programs. Thank you to all who have already renewed. Your membership is needed and much appreciated!

Star Parties

As autumn takes hold, our nights are longer and cooler. Star Parties will continue to be scheduled by Observatory Director Ron Kalinoski, but keep in mind they will begin earlier in the evening and observers will need to dress in layers due to dropping temperatures. As always, keep an eye on your email account and the ACA website for all upcoming observatory events. These events can

only take place as weather permits; so, please always check event status on the ACA website before leaving for the observatory.

Meeting Refreshments

Thank you to all members who have already contributed to the recently established meeting refreshment account. As previously noted, ACA will now purchase and provide all meeting refreshments to ensure consistency in availability and amount. If you wish to contribute and have not already done so, you can give your donation to Treasurer Dave Hartsook at our next meeting. Please remember to note that you are giving to the refreshment fund.

Upcoming Presentations

October 19, 2025

The Hertzsprung Russell Diagram

Dr. Jay Reynolds, Cleveland State University

Stars are born, live their lives, and experience death. Dr. Jay Reynolds will explain how data represented on the Hertzsprung Russell Diagram tells us about the lives of stars and what star properties we can learn based on the star's location on the H-R Diagram.

November 16, 2025

Solar Physics and Starspots

Dr. Robert Harmon, Ohio Wesleyan University

The final ACA meeting for 2025 is scheduled for November 16, 2025. Dr. Robert Harmon from Ohio Wesleyan University will present Solar Physics and Starspots. Dr. Harmon is a theoretical physicist and observational astronomer who uses the Ohio Wesleyan University Perkins Observatory telescope to conduct his research on starspots. Dr. Harmon's talk will cover some of his research and the mechanisms of solar physics. ACA will resume membership meetings in January 2026 after our December break for the holidays.

The Astronomy Club of Akron Welcomes New Member

Philip Yuschak

We look forward to seeing you in future club events.

OFFICERS 2024 — 2026

President: Cathy Loboda

- E-mail: president@acaoh.org

Vice President: Gary Smith

- E-mail: vice.president@acaoh.org

Treasurer: Dave Hartsook

- E-mail: treasurer@acaoh.org

Secretary: Carol Spears

- E-mail: secretary@acaoh.org

Assistant Secretary/Treasurer:

- E-mail: secretarytreasurer@acaoh.org

Observatory Director: Ron Kalinoski

- E-mail: observatory.director@acaoh.org

ACA Webmaster: Earl Rodd

- E-mail: webmaster@acaoh.org

Publications Secretary: Glenn R. Cameron

- E-mail: newsletter.editor@acaoh.org

Trustee:

- E-mail:

Trustee: position vacant

- E-mail:

Trustee: position vacant

- E-mail:

Statutory Agent: Mark Kochheiser

- E-mail: statutoryagent@acaoh.org

Annual Membership Message

By Dave Hartsook

The following is a copy of part of Dave's email sent to all club members on 08/29/2025.

Greetings ACA members!

...

As a reminder, ACA memberships expire annually on August 31, and membership renewal payments are due in the month of September.

Please make a note or mark your calendar to renew your membership in September. If you've already renewed, thank you!

Renewal forms are available on the ACA website at <https://www.acaoh.org/membership.htm>. A fillable membership form is also attached.

...

Editor's note: The form attached to the email was fillable but that format couldn't be inserted into this newsletter. The link above is fillable. Also the form is on the last page of this newsletter which can be printed, filled out and mailed to the treasurer.

New meeting video available on YouTube

By Glenn R. Cameron

2025-09-21 ACA Public Meeting Speaker Jeffrey Woytach spoke about the OSIRIS-REx and DART missions.

<https://youtu.be/MD-HbL3yT2U>



Meeting Minutes: September 21st, 2025

By Diwaker Chandrasekaran

Meeting called to order by President Cathy Loboda: 3:30 PM

Officers' Reports

Vice President report by Gary Smith: No report

Secretary Report by Carol Spears: No report

Treasurer Report by Dave Hartsook: No report

Old Business:

- Club Picnic – A successful picnic was held last month.
- ACA Mission Recap – Reviewed the mission and goals of the club.
- Board Introductions – All board members were introduced.

New Business:

- Membership Dues – September marks the start of membership renewals.
- Refreshments – ACA will provide refreshments going forward; members may also contribute (see Dave for details).

- Volunteers – Members are encouraged to help with cleanup after meetings.

Observatory Director Report by Ron Kalinoski:

- **Park Lighting** – Contact has been made to concerned authority. There is a possibility of installing 15 lights (2,000 lumens each). They may have a light control system, if we can get some access to it during the star parties, it may help improve dark-sky condition. Updates to follow.
- **Observatory** – Last week, Five telescopes were set up on the grounds. Members observed Saturn and its moons.

Member Observations:

- Moon Occultation – A lunar occultation event was observed.
- ISS Transit – A photo was captured of the International Space Station passing in front of the Sun.

Member Inquiries: No member inquiries.

Meeting adjourned by Cathy Loboda: 3:50 PM



September 2025 ACA Treasurer's Report
By Dave Hartsook
10/1/2025

Checking Beginning Balance	\$	1,117.16
Income		
Membership Dues	\$	695.00
Donations	\$	120.00
Paypal Fee Calc Overage	\$	0.12
Total Income	\$	815.12
Expenses		
Reimburse Statutory Agent for Annual OH Charitable Org Registration	\$	(50.00)
Reimburse Member for Printing expense of Fall Activity Schedule to Akron Public Library	\$	(15.00)
Speaker Honorarium for September 2025 ACA Meeting Presentation	\$	(75.00)
Total Expenses	\$	(140.00)
Income Less Expenses and Transfers	\$	675.12
Checking Ending Balance	\$	1,792.28
Savings Beginning Balance	\$	2,069.29
Interest Income	\$	0.02
Savings Ending Balance	\$	2,069.31
Petty Cash Beginning Balance	\$	50.00
No Activity		
Petty Cash Ending Balance	\$	50.00
Grand Total	\$	3,911.59



Astronomy Club of Akron

2025 Autumn Activity Schedule

View Celestial Objects through the area's Largest Amateur Club Telescope

5031 Manchester Road, Akron, OH www.acaoh.org

Astronomy Club of Akron has been a distinguished northeast Ohio organization since 1949. The objective of the ACA is to promote the education of the public in the area of astronomy and related sciences through our public star parties and public lecture meetings.

STAR PARTIES: Portage Lakes State Park Observatory featuring a computerized 16 inch telescope

- Please join us for stargazing and educational activities. Our Star Parties are free and open to the public. Please arrive on time to avoid headlight distraction.
- For notice of “impromptu star parties”, send e-mail to ACAstarparty@att.net to request e-mail notification of our observing sessions.
- Events will be cancelled if skies are cloudy. Always check website for star party status two hours before event.
- This is an outdoor activity in an unheated environment. Nighttime temperatures drop rapidly, even during summer. A general rule of thumb is to dress for 15 degrees cooler than predicted nighttime low temperature.
- Please, **No Smoking** on observatory grounds. Smoke reacts with optical surfaces, damaging optical coatings.
- Please, no use of cell phones or tablets in observatory (to preserve night vision).

Public Lecture Meetings: Free and open to the public featuring professional speakers

Meeting Place: Portage Lakes Kiwanis Civic Center
725 Portage Lakes Drive Akron, OH

2025 Autumn Schedule:

September 21, 2025 2:00pm

Jeffrey Woytach, Space Systems Consulting, LLC

NASA OSIRIS-Rex and DART Missions

This presentation covers two NASA missions. OSIRIS-REx is an asteroid sample return to Earth endeavor and DART investigates the possibility of deflecting an asteroid by a kinetic impactor. Jeffrey Woytach will explain how these missions were executed and the successes of each mission.

October 19, 2025 2:00pm

Dr. Jay Reynolds, Cleveland State University

Hertzsprung Russell Diagram

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*** We hold unscheduled star parties when skies are clear. For an e-mail notification of impromptu star parties send a message to ACAstarparty@att.net to be added to the list. For private star parties (Boy Scouts, Girl Scouts, Church Groups, School Groups, etc.) send a request to the same e-mail address.

ACA Member Photos

By Ron Kalinoski



Moon, Venus, and
Regulus before
sunrise on 09/19/2025

Speaker Jeffrey
Woytach speaks
about the OSIRIS Rex
and DART Missions
on 09/21/2025



ACA Member Photos

By Diwaker Chandrasekaran

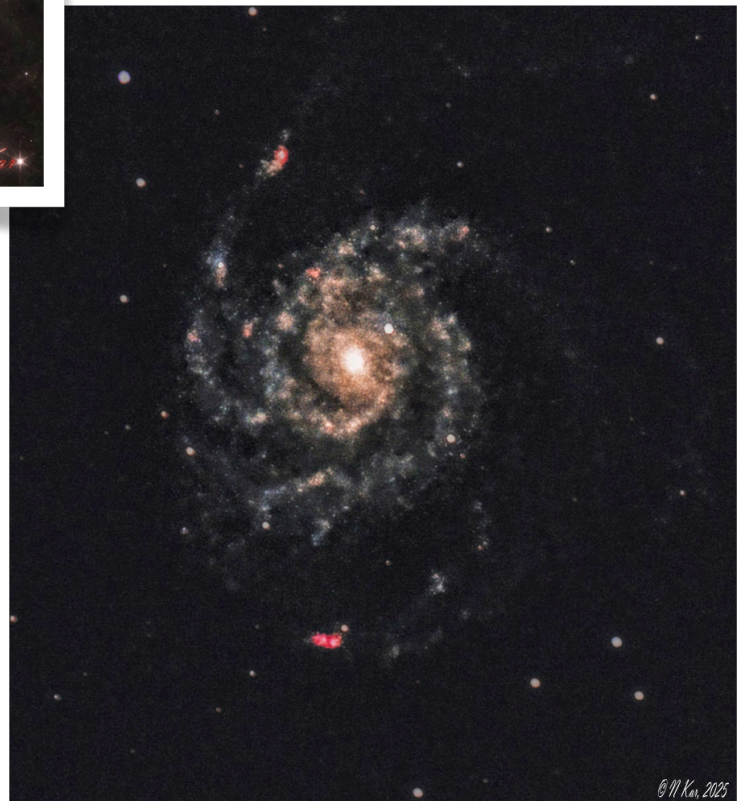


M8 (Lagoon Nebula): About 2 hrs of imaging data

M101 (Pinwheel Galaxy): About 3 hrs of imaging data

Both photos:

- 80ED refractor
- IMX585 camera
- PMC Eight mount
- Guided via PhD2
- 2 (UV-IR)-10 (Narrow-band Ha-Oiii dual) filters
- Subs captured by NINA
- Images stacked in DSS
- Darks and flats, processed in Siril
- Final adjustment done in Darktable



Swap-n-Shop

Glenn Cameron

Email: glenn@cameronclan.org

- I bought this iOptron Precision AZ/EQ Base to use with my Seestar S50 smart telescope in EQ mode. It worked great. I've since sold my S50 though and I don't need this any more. (Apertura 4" dovetail pictured is not included.) Price is \$180



- Astro-Tech AT60ED 60mm F6 ED Doublet. Contains one FPL53 lens by Ohara in Japan which minimizes chromatic aberration. Price is \$300



Swap-n-Shop

Freddy Huffman

Phone: 330-535-8009

Email: trusstube2@gmail.com

- 8" Dobsonian
- 8" SCT
- 6" SCT
- 6" Refractor
- 5" Refractor
- 100 mm Binoculars
- EQ Mount w/ dual axis tracking
- iOptron SkyTracker and tripod

Call to set up appointment to see if you are interested.

Thank you,

Freddy



October Astronomical Events

Date	GMT (h:m)	Event
02	06:00	Venus at Perihelion
05	04:20	Moon at Ascending Node
05	21:46	Saturn 3.8°S of Moon
06	22:47	FULL MOON
08	07:36	Moon at Perigee: 359819 km
10	00:20	Pleiades 0.9°S of Moon
13	13:13	LAST QUARTER MOON
13	17:31	Jupiter 4.3°S of Moon
13	18:31	Pollux 2.5°N of Moon
16	11:56	Regulus 1.3°S of Moon
17	23:34	Moon at Descending Node
19	15:00	Mercury 2.0°S of Mars
19	16:37	Venus 3.7°N of Moon
21	07:00	Orionid Meteor Shower
21	07:25	NEW MOON
23	11:15	Mercury 2.3°N of Moon
23	18:31	Moon at Apogee: 406445 km
24	19:15	Antares 0.5°N of Moon
29	11:21	FIRST QUARTER MOON
29	17:00	Mercury at Grtst Elong: 23.9°E



November Astronomical Events

Date	GMT (h:m)	Event
01	12:46	Moon at Ascending Node
01	20:02	Venus 3.3°N of Spica
02	05:46	Saturn 3.7°S of Moon
05	08:00	S Taurid Meteor Shower
05	08:19	FULL MOON
05	17:29	Moon at Perigee: 356833 km
06	10:26	Pleiades 0.8°S of Moon
08	21:41	Mercury 2.6°N of Antares
10	01:40	Pollux 2.7°N of Moon
10	02:56	Jupiter 4.0°S of Moon
12	00:28	LAST QUARTER MOON
12	07:00	N Taurid Meteor Shower
12	17:51	Regulus 1.1°S of Moon
12	23:00	Mercury 1.2°S of Mars
14	01:38	Moon at Descending Node
17	05:11	Spica 1.2°N of Moon
17	13:00	Leonid Meteor Shower
19	21:48	Moon at Apogee: 406693 km
20	01:47	NEW MOON
20	04:00	Mercury at Inferior Conj
21	08:00	Uranus at Opposition
23	06:00	Mercury at Perihelion
28	01:59	FIRST QUARTER MOON
28	16:33	Moon at Ascending Node
29	14:08	Saturn 3.7°S of Moon



Sky Event Almanacs Courtesy of Fred Espenak, www.AstroPixels.com

The Night Sky

Newsletter of the Astronomy Club of Akron

c/o Glenn R. Cameron, Editor

The Astronomy Club of Akron

c/o Dave Hartsook

4174 Meadow Wood Lane

Uniontown, OH 44685-7717

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

Check one: ☐ New Membership

☐ Renewal

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.

Initial dues for New Members are prorated. If joining in Sep-Nov, pay full amount below; Dec-Feb pay 75%; Mar-May pay 50%; Jun-Aug pay 25%

Adult (ages 18 and older) ☐ \$30.00

Additional Adult Member ☐ \$15.00

Junior (ages 12 to 17) ☐ \$15.00

Family Membership ☐ \$40.00

Visit us on the Web at www.acaoh.org