



# The Night Sky

The Newsletter of  
The Astronomy Club of Akron

www.acaoh.org

July & August 2023

## ACA MEETING - Sunday, September 17th, 2023 at 2:00 PM

### President's Column

By Cathy Loboda

#### Star Parties

As you know, ACA is taking its traditional summer hiatus from membership meetings and our focus now turns to star parties at the observatory. Observatory Director Ron Kalinoski offers numerous star parties throughout the season dependent on weather conditions. These impromptu star parties are always announced and cancelled via email. So please keep an eye on your email throughout the summer and attend often!

#### Next ACA Monthly Meeting Scheduled for September 17, 2023

ACA's first membership meeting of the 2023-2024 season is scheduled for Sunday, September 17th at 2:00 pm. Meetings are held at the Portage Lakes Kiwanis Civic Center, 725 Portage Lakes Drive, Akron.

#### Membership Renewal

Just a gentle reminder that membership fees are due for

the upcoming year on or before the September 17<sup>th</sup> membership meeting. If you would like to take this off of your "to do" list, feel free to mail your dues to treasurer Dave Hartsook at:

The Astronomy Club of Akron  
c/o Dave Hartsook  
4174 Meadow Wood Lane  
Uniontown, Ohio 44685-7717

Dues are:

- \$30.00 per year for an Adult Membership (age 18 and over)
- \$15.00 per year for Juniors (age 12 to 17)
- \$15.00 per year for each Additional Member (with an Adult Membership)
- \$40.00 per year for a Family Membership (usually the lowest total cost of the available options)

Membership pays for observatory maintenance and insurance, speakers gratuity, membership picnic entree, pavilion fees, and any costs incurred in support of our outreach programs. Your

membership is needed and much appreciated!

### New Member Welcome

By Glenn Cameron

ACA extends a warm welcome to new member Wendy Bolas and family. ACA thanks you for your membership and interest in our club! We look forward to seeing you at future club events!



## OFFICERS 2022 — 2024

President: Cathy Loboda

- E-mail: [president@acaoh.org](mailto:president@acaoh.org)

Vice President: Gary Smith

- E-mail: [vice.president@acaoh.org](mailto:vice.president@acaoh.org)

Treasurer: Dave Hartsook

- E-mail: [treasurer@acaoh.org](mailto:treasurer@acaoh.org)

Secretary: Marnie Sanders

- E-mail: [secretary@acaoh.org](mailto:secretary@acaoh.org)

Assistant Secretary/Treasurer: Reece Davis

- E-mail: [secretarytreasurer@acaoh.org](mailto:secretarytreasurer@acaoh.org)

Observatory Director: Ron Kalinoski

- E-mail: [observatory.director@acaoh.org](mailto:observatory.director@acaoh.org)

ACA Webmaster: Jeff Hudson

- E-mail: [webmaster@acaoh.org](mailto:webmaster@acaoh.org)

Publications Secretary: Glenn R. Cameron

- E-mail: [newsletter.editor@acaoh.org](mailto:newsletter.editor@acaoh.org)

Trustee: Mike Sanders

- E-mail:

Trustee: Katie Adams

- E-mail: [katiemarie1678@gmail.com](mailto:katiemarie1678@gmail.com)

Trustee: position vacant

- E-mail:

Statutory Agent: Mark Kochheiser

- E-mail: [statutoryagent@acaoh.org](mailto:statutoryagent@acaoh.org)



## Swap-n-Shop

Freddy Huffman

Phone: 330-535-8009

Email: [trusstube2@gmail.com](mailto: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





# Astronomy Club of Akron

## 2023 Activity Schedule

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

5031 Manchester Road, Akron, OH    [www.acao.org](http://www.acao.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 membership 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](mailto: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).

### **Membership Meetings:** Free and open to the public featuring professional speakers

#### **Meeting Place: Kiwanis Building**

#### **2023 Schedule:**

**September 17, 2023 2pm**

#### **Fission Surface Power for the Moon and Mars**

Lindsay Kaldon is the Fission Surface Power Project Manager at NASA's Glenn Research Center in Cleveland, Ohio. She has over 10 years working as a Department of Defense engineer on unmanned intelligence aircraft for both the Navy and the Air Force. She began her professional career as an Air Force electronic warfare officer on the high-altitude U-2 and Global Hawk aircraft. Lindsay has a Bachelor's degree in Electrical Engineering from the University of Evansville, a professional degree in Systems Engineering from the Naval Postgraduate School, and a Master's degree in Nuclear Engineering from Penn State where her research focused on radioisotope power and nuclear propulsion systems. In her spare time, she enjoys flying; she has a Private Pilot's license with Instrument rating.

**October 14, 2023 2pm**

#### **What Can We Expect When We Find Life On Other Planets?**

Professor Don Terndrup joined the Ohio State faculty in 1990. He is an observational astronomer focused on the characterization of stars and stellar systems, with an emphasis on their abundances and rotation rates. He is known for his work on the structure and stellar population of the Galactic bulge, the angular momentum of low-mass stars, the distances to open clusters, and the structure of spiral galaxies. His recent work focuses on the physics of quasar winds and their impact on galaxy evolution. From 2008 to 2012 he served as the Program Director in the Division of Astronomical Sciences at the National Science Foundation. Currently he is serving as the co-Chair of Graduate Admissions for the Department of Astronomy.

**November 19, 2023**

#### **The Big One (April 8, 2024 Total Solar Eclipse, Part II)**

Phillip Creed is a design engineer at Profile Plastics, Inc., Canton, Ohio. Phillip excels in CAD design of profile extrusion dies and downstream calibration tooling. He has a Bachelor's degree in Chemical Engineering from The University of Akron. Phillip enjoys visual observing and astrophotography. Some of his astrophotography work can be viewed on ACA's Facebook Page. Phillip is a regular guest speaker at our telescope seminars and he has given several presentations at our membership meetings speaking on such topics as eyepiece design, telescope designs, and the 2017 total solar eclipse.

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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](mailto: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.

**May 2023 ACA Treasurer's Report**  
**By Dave Hartsook**  
**6/3/2023**

<b>Checking Beginning Balance</b>	<b>\$1,421.01</b>
<b>Income</b>	
Membership Dues Received	\$22.50
Charitable Contributions Received	\$15.00
PayPal Net Fee/Charge	\$0.06
<b>Total Income</b>	<u>\$37.56</u>
<b>Expenses</b>	
Check # 1029 Reimb Observatory Director for purch of chain wrenches for 5" refractor pier	-\$48.56
Check # 1032 Reimb Observatory Director for purch of napkins etc	-\$4.31
Check # 1034 Reimb Dave Jessie for Domain name renewal pd to GoDaddy via credit card	-\$21.17
Speaker Honorarium paid at May stated meeting	-\$50.00
<b>Total Expenses</b>	<u>-\$124.04</u>
<b>Income Less Expenses</b>	-\$86.48
<b>Checking Ending Balance</b>	<u><u>\$1,334.53</u></u>
<b>Savings Beginning Balance</b>	<b>\$3,468.78</b>
Interest Income	\$0.03
<b>Savings Ending Balance</b>	<u><u>\$3,468.81</u></u>
<b>Petty Cash Beginning Balance</b>	<b>\$50.00</b>
No Activity	
<b>Petty Cash Ending Balance</b>	<b>\$50.00</b>
<b>Grand Total</b>	<b>\$4,853.34</b>

**June 2023 ACA Treasurer's Report**  
**By Dave Hartsook**  
**7/3/2023**

<b>Checking Beginning Balance</b>	<b>\$1,334.53</b>
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**Income**

Membership Dues Received	\$7.50
Transfer from PayPal Account	\$35.00

<b>Total Income</b>	<u><u>\$42.50</u></u>
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**Expenses**

Check # 1033 Reimb Secretary for July 2023 ACA Picnic Pavilion Rental Fee	-\$56.50
Check # 1035 Reimb Statutory Agent for annual Ohio Charitable Org Fee	-\$50.00

<b>Total Expenses</b>	<u><u>-\$106.50</u></u>
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<b>Income Less Expenses</b>	-\$64.00
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<b>Checking Ending Balance</b>	<u><u>\$1,270.53</u></u>
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<b>Savings Beginning Balance</b>	<b>\$3,468.81</b>
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Interest Income	\$0.03
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<b>Savings Ending Balance</b>	<u><u>\$3,468.84</u></u>
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<b>Petty Cash Beginning Balance</b>	<b>\$50.00</b>
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No Activity

<b>Petty Cash Ending Balance</b>	<b>\$50.00</b>
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<b>Grand Total</b>	<b>\$4,789.37</b>
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**July 2023 ACA Treasurer's Report**  
**By Dave Hartsook**  
**8/1/2023**

<b>Checking Beginning Balance</b>	<b>\$1,270.53</b>
<b>Income</b>	
Membership Dues Received	\$40.00
Transfer from Savings	\$1,500.00
PayPal Net Fee/Charge	\$0.14
<b>Total Income</b>	<u><u>\$1,540.14</u></u>
<b>Expenses</b>	
None	\$0.00
<b>Total Expenses</b>	<u><u>\$0.00</u></u>
<b>Income Less Expenses</b>	\$1,540.14
<b>Checking Ending Balance</b>	<u><u>\$2,810.67</u></u>
<b>Savings Beginning Balance</b>	<b>\$3,468.84</b>
Interest Income	\$0.02
Transfer to Checking	-\$1,500.00
<b>Savings Ending Balance</b>	<u><u>\$1,968.86</u></u>
<b>Petty Cash Beginning Balance</b>	<b>\$50.00</b>
No Activity	
<b>Petty Cash Ending Balance</b>	<b>\$50.00</b>
<b>Grand Total</b>	<b>\$4,829.53</b>

# Photos From July 30th ACA Picnic

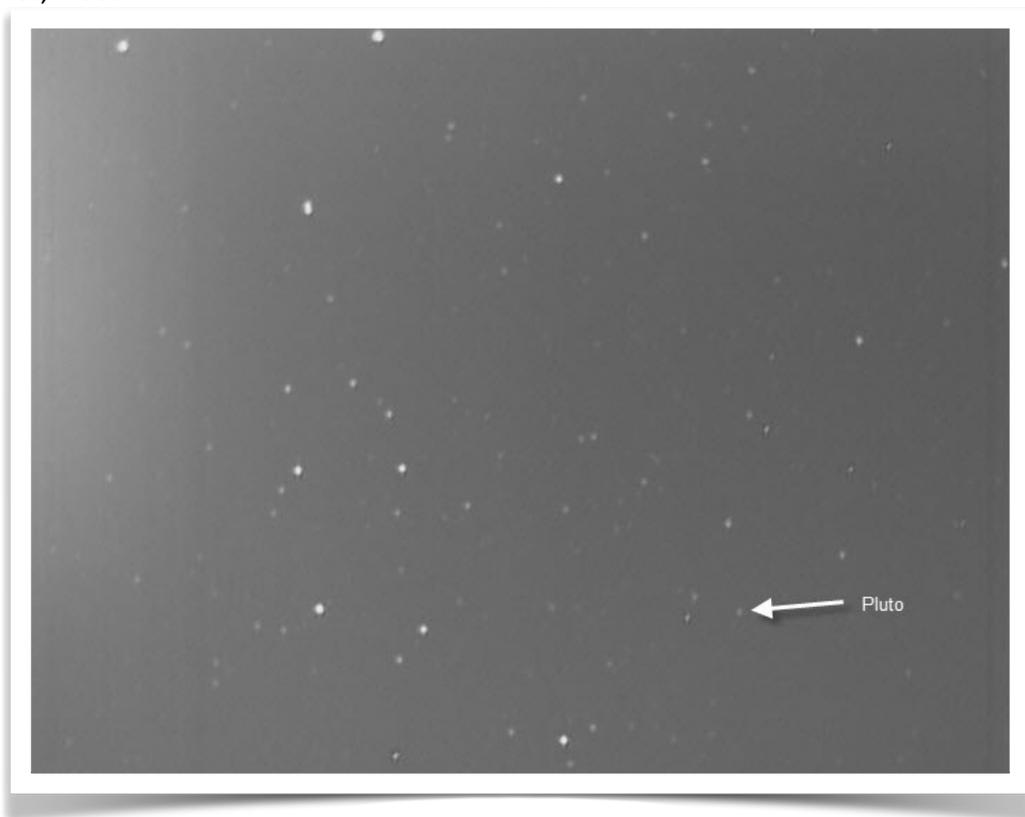
By Ron Kalinoski



## Blast From Julys Past

By Glenn Cameron

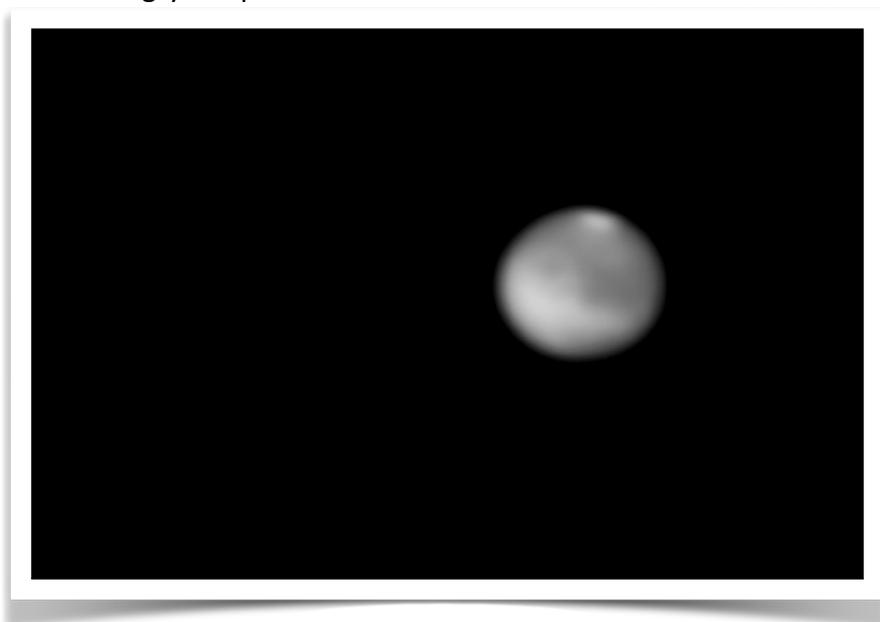
Here's a blast from July 2003. I captured this image of Pluto with my Stellacam video camera and my Meade LX90 telescope. It wasn't until 10 years later that I finally sleuthed out which dim dot in this star field was the planet, future minor planet, Pluto.



## Blast From Augusts Past

By Glenn Cameron

Here's a blast from August 2003. I captured this image of Mars with my Stellacam video camera and my Meade LX90 telescope. I was getting better with post processing. This was the first time I was able to see a polar icecap and other surface features of the angry red planet.



## August Astronomical Events

Date	EST (h:m)	Event
01	18:31	FULL MOON
02	05:52	Moon at Perigee: 357311 km
03	10:21	Saturn 2.5°N of Moon
07	02:46	Moon at Ascending Node
08	00:00	Venus at Aphelion
08	09:41	Jupiter 2.9°S of Moon
08	10:28	LAST QUARTER MOON
09	12:16	Pleiades 1.5°N of Moon
10	02:00	Mercury at Grtst Elong: 27.4°E
10	18:00	Mercury at Aphelion
13	07:00	Perseid Meteor Shower
13	08:00	Mercury 4.7°S of Mars
13	11:00	Venus at Inferior Conjunction
13	21:36	Pollux 1.7°N of Moon
16	09:38	NEW MOON
16	11:55	Moon at Apogee: 406635 km
18	23:06	Mars 2.2°S of Moon
21	09:28	Spica 2.6°S of Moon
21	16:23	Moon at Descending Node
24	09:57	FIRST QUARTER MOON
25	01:29	Antares 1.1°S of Moon
27	08:00	Saturn at Opposition
30	15:51	Moon at Perigee: 357182 km
30	18:03	Saturn 2.5°N of Moon
31	01:35	FULL MOON



## September Astronomical Events

Date	EST (h:m)	Event
03	7:44	Moon at Ascending Node
04	9:44	Jupiter 3.3°S of Moon
05	9:25	Pleiades 1.2°N of Moon
06	1:00	Mercury at Inferior Conj.
06	2:21	LAST QUARTER MOON
10	3:32	Pollux 1.5°N of Moon
12	5:42	Moon at Apogee: 406289 km
13	2:00	Regulus 4.1°S of Moon
15	1:40	NEW MOON
16	9:19	Mars 0.7°S of Moon: Occn.
17	5:12	Spica 2.4°S of Moon
17	9:18	Moon at Descending Node
19	0:00	Neptune at Opposition
21	7:50	Antares 0.9°S of Moon
22	3:00	Mercury at Grtst Elong: 17.9°W
22	9:32	FIRST QUARTER MOON
23	6:50	Autumnal Equinox
23	8:00	Mercury at Perihelion
27	1:25	Saturn 2.7°N of Moon
28	1:05	Moon at Perigee: 359911 km
29	9:57	FULL MOON
30	6:49	Moon at Ascending Node



# ***The Night Sky***

Newsletter of the Astronomy Club of Akron

c/o Glenn R. Cameron, Editor