



The Night Sky

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

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June 2016

SUMMER BREAK! NO MEETING AT KIWANIS THIS MONTH!

The Presidents Column

By Cathy Loboda

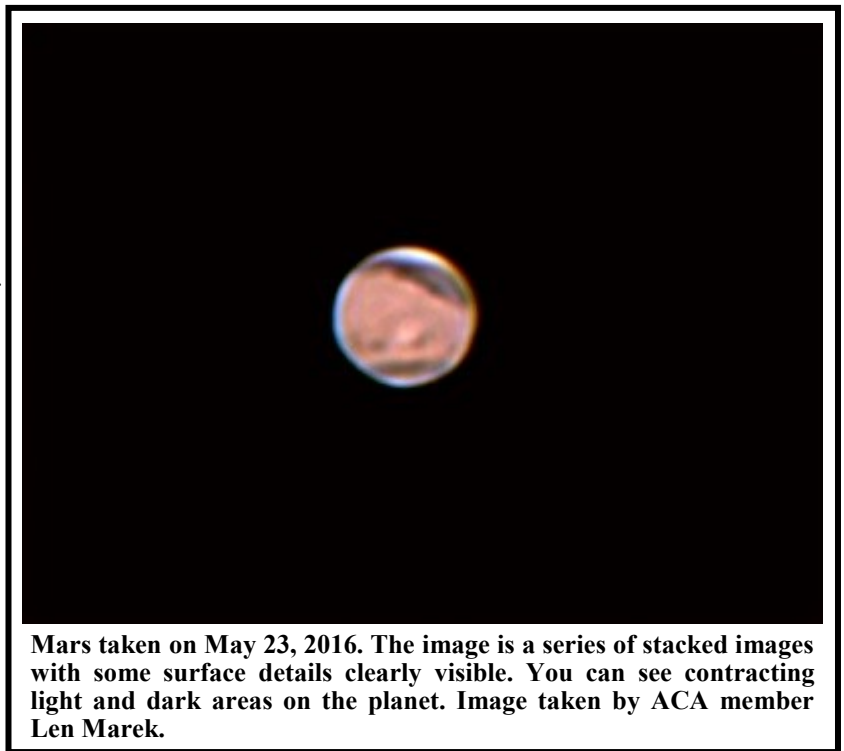
Life is not measured by the number of breaths you take, but by the number of moments that take your breath away. -Unknown

I am fortunate to have traveled extensively in my life. One trip I will always vividly remember is a family trip to Mauna Kea on the big island of Hawaii. I heard how amazing the sunsets are as you ascend, and how clear the sky is above the clouds. My love of sunsets would have been enough to prompt the trip on the mountain, but my love of the night sky made the decision easy: the family would take on the drive.

The hours driving to the summit were extremely challenging. The paved road ended early on and the steep ascent without the benefit of guardrails and street lights was daunting....especially with our rented Dodge Caravan. In hindsight, a four wheel drive vehicle would have been preferred. Our goal was to reach the highest altitude permitted to the general public.

When the road narrowed and came to an end, we discovered a visitor center and a path leading to an overlook to the west. After viewing a breathtaking sunset, the family entered the visitor center. I noticed a sign indicating the local astronomy club was hosting a star party that night. We were thrilled. The center showed a film about astronomy and released the audience to the waiting astronomy club members upon its completion. Burned to memory is the moment that literally took my breath away. The double doors opened, spilling the group into the night. I looked up to a clear, crisp dark sky densely filled with bright stars. I gasped and tears filled my eyes. I was in awe. There must have been thousands.

If you have not had the opportunity to see the stars under true dark skies, I highly encourage you to make every effort to do so. Most of us are aware dark skies are disappearing. The International Dark-Sky Association [IDA] is championed with combating light pollution worldwide and educating the public about the conservation of the night sky. This year, as the National Park Service celebrates its centennial, the IDA recommits to protecting the dark skies of our nation.



Mars taken on May 23, 2016. The image is a series of stacked images with some surface details clearly visible. You can see contracting light and dark areas on the planet. Image taken by ACA member Len Marek.

OFFICERS 2016 – 2018

President

Cathy Loboda
Phone: 330-655-2923 E-mail: cnloboda@aol.com

Vice President

Dave Jessie
Phone: 330-688-9043 E-mail: DJessie@neo.rr.com

Treasurer

Nick Mihiylov
Phone: E-mail: nmihiylov@aol.com

Secretary

Lew Snodgrass
Phone: 330-867-4800 E-mail: CHRPLY@aol.com

Assistant Secretary/Treasurer

Ann Ferrell
Phone: 330-697-7279 E-mail: annhagemaster@gmail.com

Observatory Director

Ron Kalinoski
Phone: 330-837-5848

ACA Webmaster

Dave Jessie
Phone: 330-688-9043 E-mail: DJessie@neo.rr.com

Publications Secretary - Editor, Night Sky Newsletter

Marissa Fanady
Phone: 330-531-2443 E-mail: speedymissy@yahoo.com

Trustee

Fred Huffman
E-mail: trusstube2@gmail.com

Trustee

Gregg Crenshaw
E-mail: rigelstarman@gmail.com

Trustee

Statutory Agent

Mark Kochheiser
Phone: 330-882-3713 E-mail: mkochheiser@neo.rr.com

OTAA Representative

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May Treasurer's Report

By Glenn Cameron

5/1/2016 Through 5/31/2016

Checking Beginning Balance	\$2,328.49
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Income

Total Income	\$0.00
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Expenses

Total Expenses	-0.00
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Income Less Expenses	-\$0.00
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Checking Ending Balance	\$2,328.49
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Savings Beginning Balance	\$2,075.83
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Earned Interest	0.04
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Monthly Maintenance Fee	-9.99
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Savings Ending Balance	\$2,065.88
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Petty Cash Beginning Balance	\$50.00
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	0.00
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Petty Cash Ending Balance	\$50.00
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Petty Cash	50.00
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Savings	2,065.88
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Checking	2,328.49
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Grand Total	\$4,444.37
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Article by Glenn Cameron
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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Send a picture of
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RELATED** item and
relevant information
to the newsletter
editor:

speedymissy@yahoo.com

The Presidents Column Con't

As reported in this June's Astronomy, within a decade the public will have to travel to one of three dark sky regions to see the Milky Way: the deserts of eastern Oregon/western Idaho, western Utah/northeastern Nevada, and the high elevation desert surrounding the Grand Canyon known as the Colorado Plateau.

Aware of the benefits realized by Chaco Culture National Historical Park, Rainbow Bridge National Monument, Grand Canyon-Parashant National Monument and Canyonlands National Park after designation as Dark-Sky Parks, the National Park Service recently established the Colorado Plateau Dark Sky Cooperative. The cooperative plans to bring government agencies, businesses, and citizens together to protect the status of the Colorado Plateau.

There is also a movement by the Park Service to stop developers from building near the gates to Grand Canyon National Park. Continuing the momentum, the Park Service has also turned its attention to structures and light fixtures within the park in efforts to control existent light pollution. Over 5,000 fixtures were inventoried and an estimated \$1 million is needed to complete the retrofits. Through fundraising and donations not only will the fixtures be updated, but a campground at Mather Point will be developed with grounds designed appropriately for astronomers and their telescopes. The goal is to have all completed and gain full dark sky designation for the Grand Canyon National Park centennial in 2019.

If you have not planned a vacation for this summer, the National Park Service invites you to visit any of its parks as they celebrate their 100th year. The IDA encourages you to experience their designated dark sky sites and hopes you will join in the fight to preserve and protect them. Finally for those who plan ahead, 2019 may present a wonderful opportunity to experience dark skies over Grand Canyon National Park....and moments that take your breath away.

*Article By Cathy Loboda,
ACA President*

Astronomy Picture of The Month

by Marissa Fanady



The Hubble Space Telescope captured this image of a huge tower of gas and dust nestled inside the vastness of the Carina Nebula. Astronomers have dubbed it Mystic Mountain and it is approximately 7,500 light-years away and three light-years long from top to bottom. The gas cloud is mostly made up of hydrogen, the most abundant element in the universe. Nebulae such as these are stellar nurseries for star birth where gravity causes the gas and dust to clump together. The material starts to rotate while gathering up more and more matter until the heat and pressure becomes so great that nuclear fusion starts to happen. A new young star is born. This image shows how the new young stars are literally blowing the nebula out of existence from the inside out as well as the newly formed stars nearby. Within a few million years this portion of the Carina Nebula will cease to exist, but the newfound stars and future planets that some will harbor will remain for billions of years. Death is not the end...it's only the beginning.

Information credit: http://www.nasa.gov/multimedia/imagegallery/image_feature_1647.html

*Article by Marissa Fanady
ACA Publications Secretary*

Mystic Mountain, a small portion of the Carina Nebula a star birth factory. Taken by the Hubble Space Telescope. Image Credit: NASA, ESA, and M. Livio and the Hubble 20th Anniversary Team (STScI)

ACA NEWS AND NOTES

THANK YOU!

ACA extends a sincere thank you to Dave Jessie for organizing the star party for Camp Ed Bear. Also, special thanks to all members who attended and set up telescopes to make this worthy outreach a success. Each thank you is sincerely heartfelt!

MARK YOUR CALENDARS

Just a reminder that Observatory Director Ron Kalinoski will have the observatory open June 25 for our scheduled star party, weather permitting. Check the ACA website for the updates as the date nears. Come out in support of the event and enjoy fellowship with the public and each other!

The ACA Board is planning the annual membership picnic. A date in late August will soon be secured. An email with details will follow. Last year's picnic was enjoyed by all in attendance....good friends + good food = good times!

June Astronomical Events

Day Hour(UT)

1 14 Uranus 2° N. of Moon
3 07 Saturn at opposition
3 10 Mercury 0° 7' N. of Moon Occn.
3 11 Moon at perigee
5 03 NEW MOON
5 09 Mercury greatest elong. W. (24°)
6 22 Venus in superior conjunction
11 20 Jupiter 1° 5' N. of Moon
12 08 FIRST QUARTER
14 08 Neptune stationary
15 12 Moon at apogee
17 10 Mars 7° S. of Moon
18 15 Pallas stationary
19 00 Saturn 3° S. of Moon
19 21 Mercury 4° N. of Aldebaran
20 11 FULL MOON
20 23 Solstice
25 17 Juno stationary
26 01 Neptune 1° 2' S. of Moon Occn.
27 18 LAST QUARTER
28 23 Uranus 3° N. of Moon
30 08 Mars stationary

July Astronomical Events

Day Hour(UT)

1 07 Moon at perigee
2 04 Aldebaran 0° 4' S. of Moon Occn.
4 11 NEW MOON
4 16 Earth at aphelion
7 03 Mercury in superior conjunction
7 22 Pluto at opposition
9 10 Jupiter 0° 9' N. of Moon Occn.
12 01 FIRST QUARTER
13 05 Moon at apogee
14 18 Mars 8° S. of Moon
16 05 Saturn 3° S. of Moon
16 18 Mercury 0° 5' N. of Venus
19 23 FULL MOON
23 06 Neptune 1° 1' S. of Moon Occn.
26 04 Uranus 3° N. of Moon
26 23 LAST QUARTER
27 12 Moon at perigee
29 11 Aldebaran 0° 3' S. of Moon Occn.
30 02 Uranus stationary
30 17 Mercury 0° 3' N. of Regulus

*Information Credited,
Her Majesty's Nautical Almanac Office,
United Kingdom Hydrographic Office.
US Naval Observatory.*

ACA General Meeting Minutes May 27, 2016

Presentation begins: 8:01, the guest speaker was John Harkey presenting Mathematics of Image Processing. Ended at 9:15.

Break: 9:15 – 9:25.

Business Meeting: called to order at 9:26 by Dave Jessie presiding 19 attendees

Members discussed the Mercury transit event. Ron Kalinoski, took a photo from central PA.

Reminder of ACA outreach at Camp Ed Bear formerly (Camp C.H.O.P.S.) Friday June 3rd, 2016. At Camp Carl in Ravenna.

Addendum: Skies were fair to good. Lew, Dave & Rosalina, Freddie, Nick Mihiyov and their guests were in attendance. Jupiter, Mars and Saturn were the main features along with various DSOs. Our members and importantly, the children as well as their parents enjoyed the evening.

Tentative date for solar party event is June 22nd, 2016 for MDA at Camp Cheerful in Strongsville.

The ACA Astronomy day at the Cleveland Museum of Natural History 5/21/16 had a good crowd.

NASA Glenn open house at Plumbrook is June 11-12.

9:40 Motion for adjournment, motion passed by voice vote.

Remember, no meetings during summer break.

Member Photos



*Lenny's still at it,
our glorious gas
giants!*

The Night Sky

Newsletter of the Astronomy Club of Akron

c/o Marissa Fanady, Editor

443 Fernwood Ave.

Tallmadge OH, 44278

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,