



The Night Sky

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

Volume 38 Number 1

January, 2016

Next Meeting: Friday - January 22, 2016 - 8:00 PM - Kiwanis Center

Vice Presidents Column

By Ann Ferrell

A total Solar Eclipse is coming your way...on August 21, 2017. Have you made your plans for this once-in-a-lifetime experience? Even though it's over a year away, this rare American celestial event will sweep the nation from the Pacific to the Atlantic. (Nearly everyone in the contiguous U.S.A. can reach this total solar eclipse within a one day's drive.)

On Friday, January 22, 2016, Jodi McCullough, President of the MVAS and eclipse-chaser will present "Chasing Eclipses: Getting Ready for 2017." Jodi and other MVAS members will share their recent total solar eclipse experience in Svalbard Norway, March 20, 2015. She will also give us pointers on how best to prepare for nature's phenomena in 2017.

This presentation is for everyone, not just astronomers!

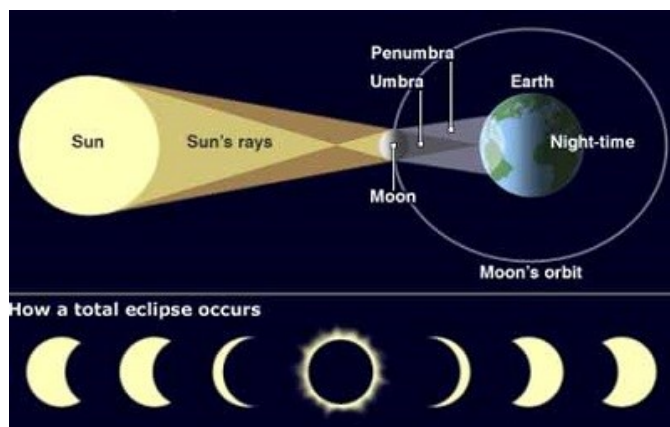
Clear Skies!

Article By Ann Ferrell

ACA Presiding Officer and Vice-President



The path of totality during the august 21, 2017 solar eclipse from Oregon to South Carolina. The path of totality treks across ten states.



An illustration of how a solar eclipse occurs. The moon is slowly moving away from Earth so in the future total solar eclipses will cease to exist.

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OTAA Representative

Lou Poda

November Treasurer's Report

By Glenn Cameron

11/1/2015 Through 11/30/2015

Checking Beginning Balance	\$3,305.59
----------------------------	------------

Income

Total Income	\$0.00
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Expenses

Observatory Expenses	-917.77
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(cement & fence posts)	
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Observatory Expenses	-100.00
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(stover construction)	
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Observatory Expenses	-24.24
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(fence posts)	
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Total Expenses	-1,042.01
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Income Less Expenses	-\$1,042.01
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Checking Ending Balance	\$2,263.58
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Savings Beginning Balance	\$2,580.57
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Earned Interest	0.04
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Savings Ending Balance	\$2,580.61
------------------------	------------

Petty Cash Beginning Balance	\$50.00
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	0.00
--	------

Petty Cash Ending Balance	\$50.00
---------------------------	---------

Petty Cash	50.00
------------	-------

Savings	2,580.61
---------	----------

Checking	2,263.58
----------	----------

Grand Total	\$4,894.19
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Article by Glenn Cameron

ACA Treasurer.

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Lou Poda

December Treasurer's Report

By Glenn Cameron

12/1/2015 Through 12/31/2015

Checking Beginning Balance	\$2,263.58
----------------------------	------------

Income

Dues	130.18
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Total Income	\$130.18
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Expenses

Total Expenses	-0.00
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Income Less Expenses	\$130.18
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Checking Ending Balance	\$2,393.76
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Savings Beginning Balance	\$2,580.61
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Earned Interest	0.04
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Savings Ending Balance	\$2,580.65
------------------------	------------

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	2,580.65
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Checking	2,393.76
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Grand Total	\$5,024.41
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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 adapter.
- 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:

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.

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:



15mm Ultra-Wide Angle Eyepiece

Asking: \$40

Contact: Lew Snodgrass

Phone: 330-819-4886

Phone: 330-867-4800

Ask for Lew.

Email: chrply@aol.com

Advertise in the Swap n Shop!

Send a picture of your ASTRONOMY RELATED item and relevant information to the newsletter editor: jgshinn2014@gmail.com

January Astronomical Events

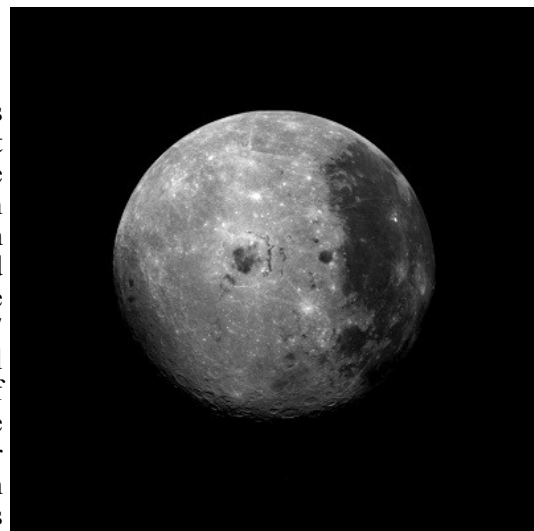
01/02/16 6:00am LAST QUARTER
01/02/16 12:00pm Moon at apogee
01/02/16 11:00pm Earth at perihelion
01/03/16 7:00pm Mars 1°.5 S. of Moon
01/05/16 5:00am Mercury stationary
01/06/16 3:00am Pluto in conjunction with Sun
01/06/16 5:00pm Venus 6° N. of Antares
01/07/16 12:00am Venus 3° S. of Moon
01/07/16 5:00am Saturn 3° S. of Moon
01/08/16 8:00pm Jupiter stationary
01/09/16 4:00am Venus 0°.09 N. of Saturn
01/10/16 2:00am NEW MOON
01/13/16 3:00pm Neptune 2° S. of Moon
01/14/16 2:00pm Mercury in inferior conjunction
01/15/16 2:00am Moon at perigee
01/16/16 6:00am Uranus 1°.5 N. of Moon
01/16/16 11:00pm FIRST QUARTER
01/19/16 10:00am Pallas in conjunction with Sun
01/20/16 3:00am Aldebaran 0°.5 S. of Moon Occn.
01/24/16 2:00am FULL MOON
01/25/16 7:00pm Mercury stationary
01/28/16 1:00am Jupiter 1°.4 N. of Moon
01/30/16 9:00am Moon at apogee

*Information Credited,
Her Majesty's Nautical Almanac Office,
United Kingdom Hydrographic Office*

Astronomy Picture of The Month

This month's featured astronomical object is the Moon. Our moon is known as a natural satellite that has been theorized to have formed about 4.5 billion years ago when a Mars sized object collided with Earth. The collision resulted in a massive debris field forming around the earth much like Saturn's rings. After millions of years the debris came together to form our moon. Our natural satellite is about 238,855 miles away from Earth and is slowly moving away at about the speed of your fingernail growth. The moon takes 27.322 earth days to complete one orbit at a speed of 2,287 mph. The moon is tidally locked with the earth meaning that the rotational period is the same as the orbital period. As a result we only see one side of our closest celestial neighbor, we can never observe the far side unless we send space probes. A very common misconception is the belief that the far side of the moon is always dark, when in fact the whole surface of the moon sees sunlight at some point. When there's a new moon the side that faces earth is dark and the far side is bathed in sunlight. The surface temperature ranges from -387°F in the dark to 253°F in the sun. We are extremely lucky to have a moon, without it life on earth would be very different or may not even exist. The moon slowed the rotation period of earth from a quick six hours a day to a nice slow twenty-four hours a day which also resulted in much slower calmer wind speeds. Our planet's wobble on its axis was also stabilized by the moon, giving us a much more stable climate. Peppered and scarred with many craters, the moon has taken many impacts from asteroids preventing them from striking earth. These are just a few of the examples of why our satellite is so important to life on this planet. So next time you're out on a clear night and you look up at the moon, remember to give that big ball of rock your thanks for always being there because it always has and always will.

Information Credited, <http://solarsystem.nasa.gov/planets/moon>



This image of the moon was obtained by the Galileo Solid State imaging system on Dec. 8 at 7 p.m. PST as the Galileo spacecraft passed the Earth. Image Credit: JPL.

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Newsletter of the Astronomy Club of Akron

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Massillon, OH 44646-9018

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 May.

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.