



The Night Sky

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

Volume 37 Number 10

October 2015

Next Meeting: Friday - October 23, 2015 - 8:00 PM - Kiwanis Center

Vice Presidents Column

By Ann Ferrell

Hello Fellow ACA Members and friends,

ACA heartily welcomes the return of Gary Kader, Director of the Burrell Observatory. Presentation topic: "The Harvard Computers" The Women Who Launched 20th Century Astronomy".

Synopsis: With the advent of dry plate photography in the late 1800's astronomy moved from the telescope to the lab. Edward Pickering at the Harvard Observatory hired women to analyze images from the telescopes. Their work led directly to the understanding of stellar evolution and the discovery of the expansion of the universe. Click on the attached link to view the "computers" at Harvard examining glass photographic plates:
<http://w.astro.berkeley.edu/~gmarcy/women/history.html>

Meeting Place: Portage Lakes Kiwanis Club

725 Portages Lakes Drive
Akron 44319
8:00 p.m.

ACA will host a dinner for our speaker and guest at 93 Prime Anthe's, 4315 Manchester Rd. Akron, 44319 , at 6:15 p.m. Contact Ann Ferrell for reservations: annhagemaster@gmail.com

Clear Skies!

Article By Ann Ferrell
ACA Presiding Officer and Vice-President



The "computers" at the Harvard Observatory in the 1890's were women who examined glass photographic plates containing images of the sky. Among of their tasks were discovering stars that changed brightness in a periodic way and classifying hundreds of thousands of stars. Women were not allowed to use the world's largest telescopes until the 1960's. Image credited Berkeley University <http://w.astro.berkeley.edu/~gmarcy/women/history.html>

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September Treasurer's Report

By Glenn Cameron

9/1/2015 Through 9/30/2015

Checking Beginning Balance	\$3,125.86
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Income

Dues	70.00
Donations	100.00

Total Income	\$170.00
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Expenses

Speaker Dinner	-33.29
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Total Expenses	-33.29
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Income Less Expenses	-\$136.71
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Checking Ending Balance	\$3,262.57
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Savings Beginning Balance	\$2,580.49
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Earned Interest	0.04
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Savings Ending Balance	\$2,580.53
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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	2,580.53
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Checking	3,262.57
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Grand Total	\$5,893.10
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Article by Glenn Cameron

ACA Treasurer.

SWAP & SHOP



FOR SALE:

22mm Orion Epic ED-2 ED Eyepiece
25mm Orion Epic ED-2 ED Eyepiece

Asking: \$25 each
Contact: Glenn Cameron
Phone: 330-737-1472
Email: glenn@cameronclan.org



FOR SALE:

Orion Sirius 40mm Plossl

Asking: \$25
Contact: Glenn Cameron
Phone: 330-737-1472
Email: glenn@cameronclan.org

FOR SALE:

Meade LX80 Mount

- Tripod.
- One counterweight.
- Autostar and battery box power supply.
- Cigarette lighter power cable.
- Selling because of upgrade to LX80 mount.
- LOCAL PICKUP is necessary.

Asking: \$325 OBO
Contact: Glenn Cameron
Phone: 330-737-1472
Email: glenn@cameronclan.org

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:



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:



Televue Radian 12 mm Eyepiece

- Excellent condition.

Asking: \$180 (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.

FOR SALE:



Televue Radian 18 mm Eyepiece

- Excellent condition.

Asking: \$180 (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

Mini Makers Fair

By Marissa Fanady

On Saturday September 19th the ACA was once again in attendance at the Akron public library's annual event the Mini Makers Fair where organizations of all types of crafts, science and technology gather to show the public what we partake in as well as enjoy. Hopefully get others interested in our activities and possibly gain a new hobby or even pursue a career. This year the library placed the ACA on the first floor, I passed many tables with folks setting up their tables for the event. I saw a robotics booth, a juggling artist and a craft table where kids can make a box robot. It looked like it was shaping up to be a great time! The public, especially children, were in for some treats this year.



The ACA table all set up and ready to go for the Mini Makers Fair at the Akron Public Library Saturday September 19th. Image credited Gregg Crenshaw and his wife.



Pictured above is the Apollo lunar samples encased in acrylic. At 1 o'clock and going clockwise is Mare soil, Highlands soil, orange soil, Basalt, Breccia and Anorthosite. Image by Marissa Fanady.

There were many more people who participated in the event as well as more in attendance than the previous year. They placed the astronomy folks right in front of the science and technology portion of the library. This year they grouped similar tables together so that every hobby/activity had a section. I was the first to arrive and it felt like we were placed so far away from everyone else but there were a few tables next to us at the end of the hall and right across from us. I always bring some of my meteorites at these events to let the public not only see beautiful pictures of space, provided by club members, but also hold and touch a piece of our universe. At the end of the hall was a gentleman who was educating people on CubeSats, square little satellites that folks, schools, and scientists can build to conduct research or experiments. They are much lighter and more cost effective than the conventional satellites that humans usually send up into space, now the general public can have access to space furthering our knowledge and wonder. The tables right across from us happened to be for NASA, very appropriate placing if you ask me! They were already set up when I got there and I just couldn't help but get a huge smile on my face and laugh at the perfect placement. The first thing I see when I looked over at their display was an Apollo astronaut spacesuit, the very first one I've ever seen in real life. I was praying that it was the real deal and had been worn by an astronaut, not some replica made for public viewing. I knew that the scientist manning the table would be too busy to speak with once the event started because hey who doesn't want to have a conversation with a real NASA scientist?? So after I set up my meteorite display I made my way over to the NASA table to introduce myself and get a close look at that suit. I enjoyed a very lovely chat with Dr. Gomez, he has a PhD in mechanical engineering and worked on testing jet engine nozzles in an effort to make them perform better. He now works in the Office of Communications and External Relations as an Outreach Development Specialist. He said that the Apollo suit was genuine and worn on the Apollo 8 mission to circle the moon and return to the earth. Dr. Gomez surprised me by asking if he could photograph me with the spacesuit and post it on NASA Glenn's Twitter feed, he took down the barrier so that I could get closer to the suit. After our talk I made my way to the table right next to his that was also part of NASA's display where the public could see real lunar samples brought back from the Apollo missions!!!

Mini Makers Fair Con't



The setup NASA had across from the ACA. Complete with spacesuit and lunar samples. Image credited Dr. Gomez NASA Outreach Development Specialist.

The samples were encased in acrylic so nobody could touch them but they were still amazing and priceless, the woman in charge of them was fiercely protective of them which is completely understandable. After I had an eye full of the moon samples I made my way back to our set up to guard my meteorites as the event was about to start.

Gregg and his wife arrived shortly after myself with all the ACA display boards, sheets with our scheduled star parties, stickers and pictures for the kids and other various astronomy information. They were very helpful in assisting me with my meteorites and I thank them very much for their help. They got everything set up within an hour prior to the start of the event and I'm extremely thankful that they could be there to assist me in representing the ACA and educating the public. Finally the event was underway and we were met with people from all walks of life. I always encourage people to hold my meteorites because there's a big thrill in holding material from space, yes it's a risk every time I let someone hold them but it's a risk I'm willing to take.

Seeing someone's face light up, especially children, is completely worth the risk. I know that I made someone's day and showed them something amazing. A while later Dave and Roselena arrived to help us out and boy did they help! A few large groups of Mexican kids and adults made their way around and Rosie was able to translate information for them, with so many kids I was frantically trying to keep track of my meteorites but Dave and Rosie helped greatly with that as well and I didn't lose a single rock. Later Dave and Rosie went to grab some lunch, the library was nice enough to let me eat at our table which is normal not allowed so they were able to bring me back some lunch. Everyone was such a huge help and we had a good time sharing some laughs and making memories.

By 3:45 it was time to start packing up, even though there were still a lot of people walking around to see all the vendors. My ride was to show up at 4:00 so I had to get packing and ready to leave. Roselena assisted me with putting away all of my meteorites, I cannot thank her and everyone enough for all of their help it means so much. The event was a complete success and tons of fun! Plan to be there next year because I sure will, I'll be attending every year because nothing is better than spreading the love of our universe to others. Maybe they'll fall in love as well, the more the merrier!

*Article By ACA Member,
Marissa Fanady*

October Astronomical Events

10/02/15 1:00pm Aldebaran 0°.5 S. of Moon Occn. 10/04/15 9:00pm LAST QUARTER. 10/08/15 9:00pm Venus 0°.7 N. of Moon Occn. 10/08/15 10:00pm Mercury stationary. 10/09/15 5:00pm Mars 3° N. of Moon. 10/09/15 9:00pm Venus 3° S. of Regulus. 10/10/15 12:00am Jupiter 3° N. of Moon. 10/11/15 12:00pm Mercury 0°.9 N. of Moon Occn. 10/11/15 1:00pm Moon at apogee. 10/12/15 4:00am Uranus at opposition. 10/13/15 12:00am NEW MOON. 10/16/15 3:00am Mercury greatest elong. W. (18°). 10/16/15 1:00pm Saturn 3° S. of Moon. 10/17/15 2:00pm Mars 0°.4 N. of Jupiter. 10/20/15 9:00pm FIRST QUARTER. 10/23/15 7:00pm Neptune 3° S. of Moon. 10/26/15 7:00am Venus greatest elong. W. (46°). 10/26/15 8:00am Venus 1°.1 S. of Jupiter. 10/26/15 10:00am Uranus 0°.9 N. of Moon Occn. 10/26/15 1:00pm Moon at perigee. 10/27/15 12:00pm FULL MOON. 10/28/15 7:00pm Mercury 4° N. of Spica. 10/29/15 11:00pm Aldebaran 0°.6 S. of Moon Occn.

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

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Newsletter of the Astronomy Club of Akron

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8019 Glendevan St. NW
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,