



The Night Sky

The Newsletter of
The Astronomy Club of Akron

www.acaoh.org

Volume 35 Number 7

July 2013

SUMMER BREAK! NO MEETING AT KIWANIS THIS MONTH.

BREAKING NEWS!

THE ASTRONOMY CLUB OF AKRON HAS INSTALLED A BRAND NEW 16" MEADE LX200 ACF AT ITS PORTAGE LAKES STATE PARK OBSERVATORY! STORY PAGE 4.



Assembly Team: front row, from left to right: Rick Bradley, Rick Bradley Jr., Ron Kalinoski, John Shulan, Lenny Marek, and Gary Smith. Back row from left to right: Rick Burke, Gary Whiston, Dave Jessie, Glenn Cameron, and Ed Howe. Missing from photo is John Crilly and Lew Snodgrass.



The new observatory telescope: Meade 16" LX200 ACF.



Sparks fly as Sam cuts through some rebar during the pier cut. Ted sprays down the blade to minimize dust and blocks concrete slurry with a piece of cardboard. Sam & Ted work for Stover Construction who donated the pier cut for our new 16" telescope installation.

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Lou Poda

June Treasurer's Report

By Glenn Cameron

6/1/2013 Through 6/30/2013

Checking Beginning Balance	\$5,848.07
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Income

Dues	70.00
Transfer From Savings	6,500.00
14" LX200 Sale Advance	2,500.00
Total Income	\$9,070.00

Expenses

Woodland Hills 16" LX200	-12,364.00
Postage	-6.06
Total Expenses	-\$12,370.06
Income Less Expenses	-\$3,300.06

Checking Ending Balance	\$2,548.01
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Savings Beginning Balance	\$9,000.04
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Earned Interest	0.20
Transfer To Checking	-6,500.00

Savings Ending Balance	\$2,500.24
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Petty Cash Beginning Balance	\$49.41
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0.00

Petty Cash Ending Balance	\$49.41
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Petty Cash	49.41
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Savings	2,500.24
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Checking	2,548.01
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Grand Total	\$5,097.66
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*Article by Glenn Cameron
ACA Treasurer.*

The ACA wishes to welcome our newest member:

Donald H. Replogle

We look forward to seeing you at all club functions!

Obituary

I have very sad news for the members of the ACA. We have lost one of our own. I received news of the death of a long time ACA member Vic Saker. Vic's participation in the club had been severely limited by his long-term illness.

Respectfully,
Gary Smith - President, the ACA

SWAP & SHOP



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



For sale:

Teleview Radian 12 mm Eyepiece

- Excellent condition.

Asking: \$180 (cash)

Contact: Fred Fry
Email: riverfry@gmail.com



For Sale:

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

Asking: \$40 each or \$70 for both

Contact: Glenn Cameron
Phone: 330-737-1472
Email: glenn@cameronclan.org



For Sale:

Teleview Radian 18 mm Eyepiece

- Excellent condition.

Asking: \$180 (cash)

Contact: Fred Fry
Email: riverfry@gmail.com

Advertize in the Swap n Shop!

Send a picture of your item and relevant information to the newsletter editor:

truemartian@aol.com

Observatory Report

By Ron Kalinoski



June was a busy month for making preparations for the 16" LX200 ACF. After our May 24th membership meeting, members got busy planning for the new telescope. On May 27th Lenny Marek negotiated a new price with Farah at Woodland Hills saving us an additional \$400. On June 10th we "Lit the Fuse" and placed an order for the 16" LX200ACF. The same day John Crilly was contacted by Vice President of Meade Jerry Gonzales to discuss an article John wrote for Cloudy Nights. John's article talked about the gap between actual periodic error correction values and Meade's specification for the LX850 mount. John mentioned to Jerry the Astronomy Club of Akron just placed an order for a 16" LX200ACF. Jerry said he would give the telescope a "second check" before shipment. On June 11th Glenn Cameron sent Woodland Hills our \$1000 "good faith" deposit for the telescope. The next day, Farah called to tell us the telescope is being prepared for shipment. Jerry Gonzales not only gave our telescope a second check, but he moved us to the front of the line for shipment. What normally has taken nearly a year, was accomplished in two days. On June 15th, Robert Benedict, Sue Valentine, Mark Kochheiser, and I moved hardware from the observatory to the old ranger station to prepare for pier cutting and telescope installation. On June 20th the new observatory telescope was shipped; starting its seven-day journey from San Diego across the country to Akron. The following day, we readied the observatory for pier cutting by covering the walls with tarps, clearing all remaining items out of the observatory, and rolling back the roof. Later that day, Stover Construction cut 9.25 inches off the

A VERY SPECIAL THANK YOU!

BUSINESSES

Stover Construction: <http://stoverco.com/>
Woodland Hill Camera & Telescope: <http://telescopes.net/>
Firestone Polymers: <http://www.firesyn.com/>
Astrozap: <http://www.astrozap.com/>
DewBuster: <http://www.dewbuster.com/>
Precise Parts: <http://www.preciseparts.com/>

ACA MEMBERS

Dave Jessie, Rick Burke, Mark Kochheiser,
Glenn Cameron, Lenny Marek, Cindy & Paul Epner
anonymous donors, and

**ALL ACA MEMBERS FOR THEIR CONTINUED SUPPORT
WITH DUES! YOUR DUES WENT A VERY LONG WAY IN
GETTING US THERE!**

old pier. The observatory floor was cleaned of concrete slurry and readied for setting of anchor bolts, that occurred on June 26th. On June 27th, the telescope arrived at the ACA Portage Lakes State Park Observatory. Mark Kochheiser & I quickly drove to the observatory with only 30-minute notice to unload the freight. Fortunately the truck driver helped us move the freight into the observatory. On July 5th, I drilled the pier plate to match the bolt pattern measured on the base drive. I spent the evening at the observatory verifying the anchor bolts, pier plate, base drive, and fasteners would all fit together. If it didn't, the assembly crew scheduled to arrive July 7th would not be able to move forward with the installation. After filing off some slag remnant from slot burning on the original installation, everything fit together as planned. I leveled the pier plate and mounted the base drive and re-checked level. A slight adjustment was necessary to bring the base drive to perfect level position. After cleaning up the receptacles and checking wiring for tightness, the receptacles were installed and power applied to the pier. We were now ready for installation of the new observatory telescope. The assembly took place on the morning of July 7th. The

assembly team was made up of John Crilly, Lenny Marek, Rick Burke, Gary Whiston, Dave Jessie, Ed Howe, Glenn Cameron, John Shulan, Gary Smith, Rick Bradley, Rick Bradley Jr., Lew Snodgrass, and Ron Kalinoski. The team started by first having a cup of the Best Free Coffee in Akron before continuing with the installation. Rick Burke and Lenny Marek fastened the lower fork section to the base drive. Four other team members lifted the telescope assembly out of the box and aligned it to set on dowel pins situated on the lower fork assembly. Rick Bradley & Rick Burke bolted the two assemblies together. What a work of art! Power supply, control cables, hand controller, finder scope, visual back, diagonal, & eyepiece, all were set and fastened. We applied power and John Crilly ran the telescope through its diagnostics. All tests passed. The hard work was done. The crew took a refill of the Best Free Coffee in Akron and a group photo for the ACA record book. "First Light" is scheduled for our July 13th star party. Thanks to all who helped bring our dream of a new & larger replacement telescope to fruition.

*Article by Ron Kalinoski,
ACA Observatory Director*

Astronoquiz

By Marissa Fanady



Welcome back to astronoquiz! Last month I asked you to try and name all eight electromagnetic waves or light waves we depend on to study the universe. Time to shed some light on last months question, did you guess the right answers? Also, I challenged you to attempt to put the light waves in order from the lowest frequency to the highest frequency. The answer, in order, is...

1. Radio waves
2. Microwaves
3. Heat waves
4. Infrared waves
5. Visible light waves

6. Ultraviolet waves
7. X-Ray waves
8. Gamma Ray waves

Whew that was a tough question! Some scientists believe there may be a higher frequency electromagnetic wave above Gamma Rays yet to be discovered. Lets tone things down with an easy multiple choice question for those just starting out and for those who just want to exercise their minds. Astronomy has seen some amazing leaps in the past fifty years, mankind has come very far in understanding the cosmos and developing new technologies that help us with exploration and discovery. From sending a space craft on a journey to the edge of the solar system and beyond, to the discovery of dark matter and dark energy, humans have come a long way from

once believing that the universe revolved around the earth. But there's one milestone in space exploration I think we all can agree on that was the most significant stepping stone in human history, the historic event of sending a manned mission to a new world, our next door neighbor, the moon.

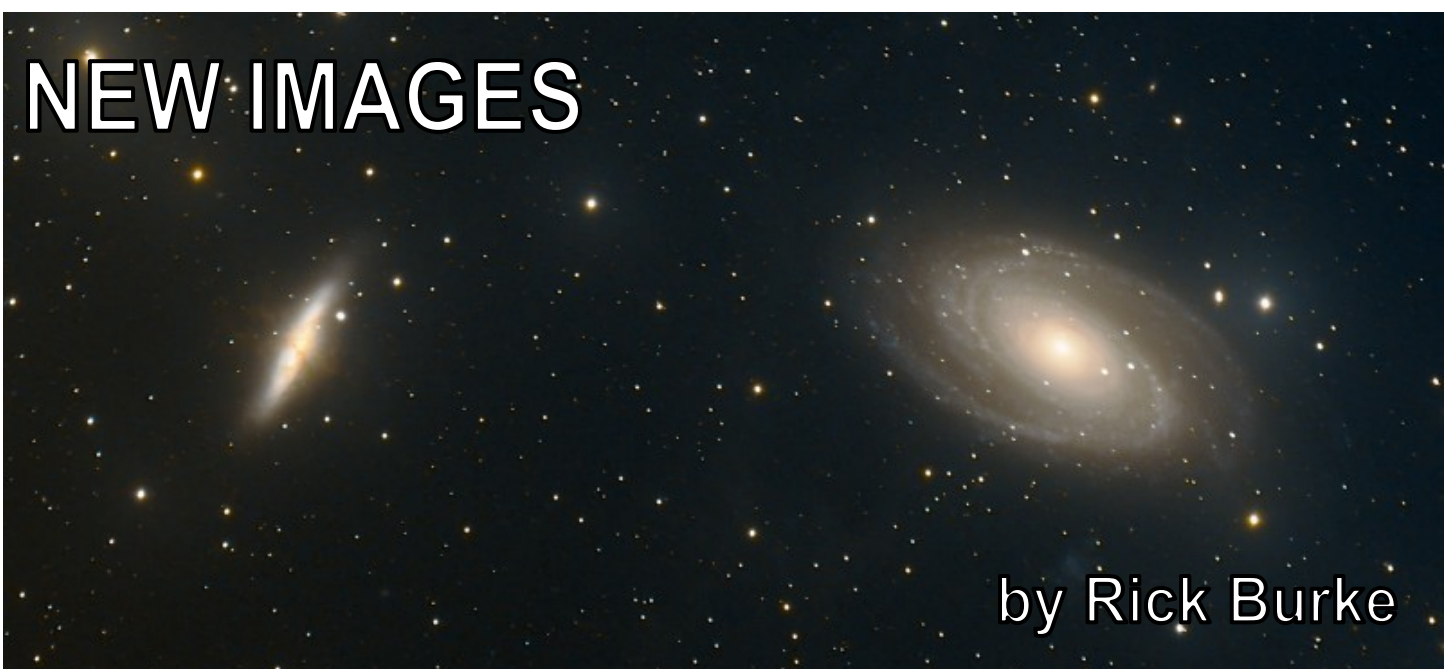
What is the exact year, month, and day that the United States first landed a pair of humans on the moon?

- A. August 12, 1959
- B. July 20, 1969
- C. May 10, 1970
- D. June 21, 1968

Contact: speedymissy@yahoo.com

*Article by ACA member
Marissa Fanady.*

NEW IMAGES



by Rick Burke

New Images
By Rick Burke

M81 (Bode's Galaxy) on the right and M82 (Cigar Galaxy) on the left. Captured at the Texas Star Party, May 6 & 7, 2013 and the Cherry Springs Star Party June 3, 2013. 12-15 minute luminance exposures, 12-10 minute R, G, & B images, binned 2x2 captured with a QSI583 camera through a Tele Vue NP127is, guiding by PHD, with image capture with ImagesPlus, guiding with PHD. Processing with ImagesPlus and Photoshop CS6.

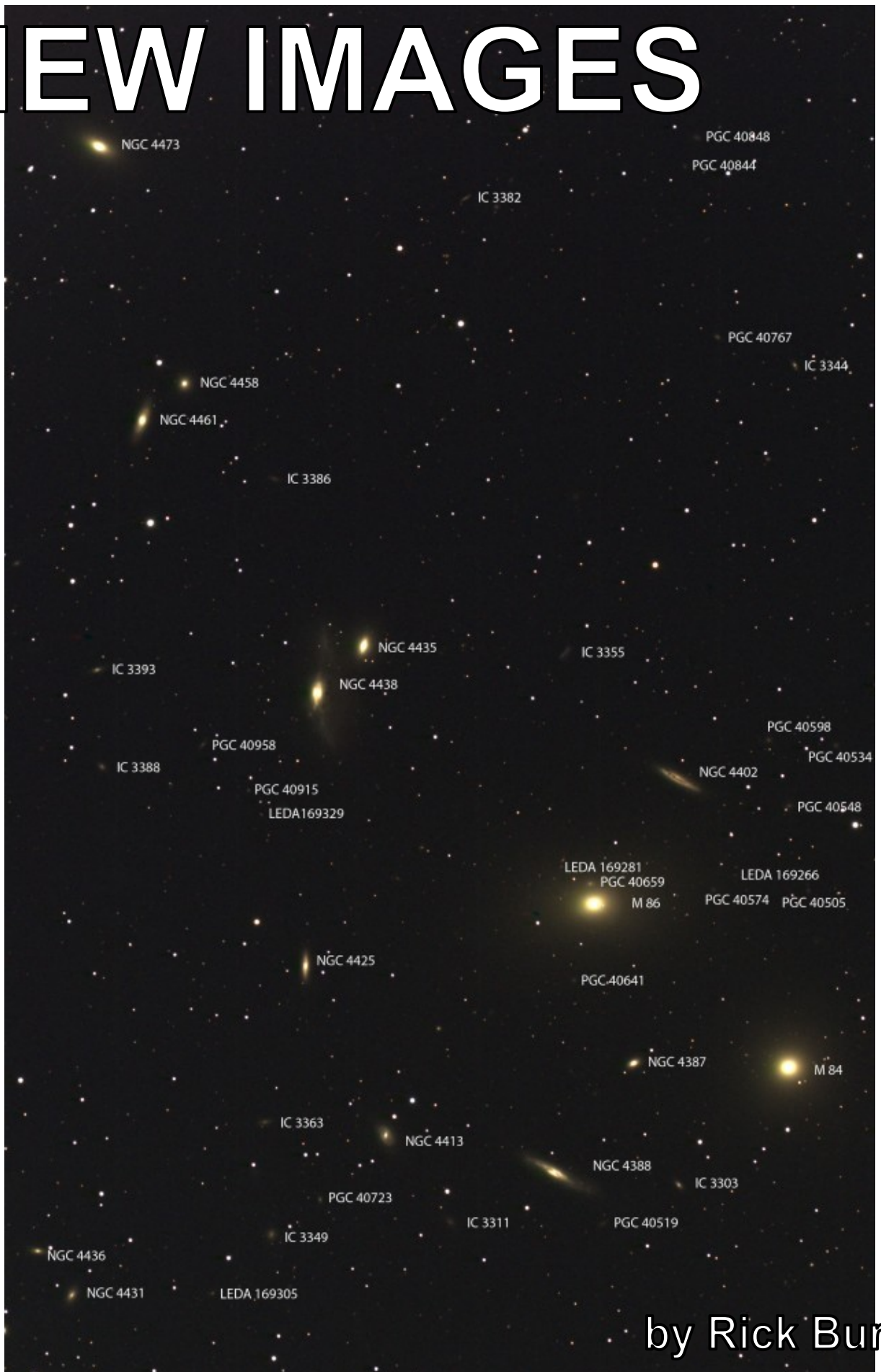
Virgo Galaxy Cluster (Page 6)
Galaxies in the Virgo Cluster from the southern end of Markarian's Chain. Captured at the Cherry Springs Star Party, June 4th, 2013. 12-10 minute exposures with a QHY10 one-shot color camera through a Tele Vue NP127is. Image capture with ImagesPlus, guiding with PHD. Processing with ImagesPlus and Photoshop CS6. Galaxy identification aided by nova.astrometry.net and Guide 9.

New Images
By John Crilly

NGC 5907(top) & M101 (bottom) (Page 7)

EDITORS NOTE: THE MONTHLY EVENT CALENDAR WILL BE NOW BE PUBLISHED ONE MONTH IN ADVANCE STARTING WITH THIS MONTH'S ISSUE. YOU WILL FIND THE JULY AND AUGUST CALENDARS INCLUDED IN THIS EDITION.

NEW IMAGES







by Rick Burke

NEW IMAGES



by John Crilly




THE ASTRONOMY CLUB OF AKRON JULY 2013 ACTIVITIES CALENDAR

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 Pluto at opposition at 0h UT.	3	4	5 Earth at aphelion (farthest) at 15h UT. STOW ASTRONOMY PUBLIC EVENT (www.stowastronomy.org)	6 ACA OBSERVATORY PUBLIC EVENT 9:00p
7 Moon at apogee (farthest) at 1h UT.	8 New Moon 7:14UT 	9	10	11	12 STOW ASTRONOMY PUBLIC EVENT (www.stowastronomy.org)	13 ACA OBSERVATORY PUBLIC EVENT 1:00p SOLAR OBSERVING HOT DOG ROAST PUBLIC EVENT 9:00p STAR GAZING
14	15	16 First Quarter 3:18UT 	17	18	19 STOW ASTRONOMY PUBLIC EVENT (www.stowastronomy.org)	20
21 Moon at perigee (closest) at 20h UT.	22 Full Moon 18:16UT 	23	24	25	26 STOW ASTRONOMY PUBLIC EVENT (www.stowastronomy.org)	27 ACA OBSERVATORY PUBLIC EVENT 9:00p
28	29 Last Quarter 17:43UT 	30 Mercury at greatest elongation 9h UT. (evening)	31			

EST = UT - 5 hrs, EDT = UT - 4 hrs

THE ASTRONOMY CLUB OF AKRON

AUGUST 2013 ACTIVITIES CALENDAR

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2 STOW ASTRONOMY PUBLIC EVENT (www.stowastronomy.org)	3 ACA OBSERVATORY PUBLIC EVENT 9:00p Moon at apogee (farthest) at 9h UT.
4 Juno at opposition at 1h UT.	5 New Moon 21:51UT	6 	7	8	9 STOW ASTRONOMY PUBLIC EVENT (www.stowastronomy.org)	10
11	12	13 First Quarter 10:56UT	14 	15	16 STOW ASTRONOMY PUBLIC EVENT (www.stowastronomy.org)	17
18 Moon at perigee (closest) at 1h UT.	19	20 Full Moon 1:45UT	21 	22	23 STOW ASTRONOMY PUBLIC EVENT (www.stowastronomy.org)	24
25	26	27 Neptune at opposition at 2h UT.	28 Last Quarter 9:35UT	29	30 STOW ASTRONOMY PUBLIC EVENT (www.stowastronomy.org)	31 ACA OBSERVATORY PUBLIC EVENT 8:30p Moon at apogee (farthest) at 0h UT.

EST = UT - 5 hrs, EDT = UT - 4 hrs

The Night Sky

Newsletter of the Astronomy Club of Akron

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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,