



The Night Sky

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

Volume 38 Number 2

February 2016

Next Meeting: Friday - February 26, 2016 - 8:00 PM - Kiwanis Center

The Presidents Column

By Cathy Loboda

Greetings members and friends of ACA,

As your newly elected interim president, I thought it appropriate to take this opportunity to briefly introduce myself.

I first discovered the world of astronomy at the impressionable age of seven when my parents purchased a simple refractor telescope as a gift for my older brother. Even though I recall viewing only the moon through its lens, I immediately fell in love with the night sky. This fascination, however, was soon put aside as other interests took hold through the years. It was not until I gave birth to my first child that I was reintroduced to the night, and my love of the night sky was renewed.

I spent much time as a Mom exposing my three children to many different experiences and I often dragged them out of bed for celestial events. One of our favorite family memories happened in August of 1993. Trying to escape irate dogs in pursuit and under dark skies, we found ourselves frantically running back to our van parked on a dark, unpaved, country road. My daughter lost her shoe, but we escaped unscathed. That was the night I surprisingly discovered a Dodge Caravan could squeal out as it went 0 to 60 mph!

My grandfather's mantra was a Russian proverb: "Live 100 years, learn 100 years; and you'll still die a fool." I cannot begin to explain how often I heard this proverb during my childhood. After my grandfather's passing, I took up his mantra and it has been a driving force as I completed formal education at the doctoral level and continue to search for new horizons.

In 2007, I picked up a magazine published by a local newspaper. On its cover was the silhouette of a man and his telescope. I immediately read the feature article about an astronomy program in Stow lead by a man well known in the ranks of ACA- Dave Jessie. After visiting the website, I attended my first star party under a clear, crisp, summer sky. I was hooked.



OFFICERS 2014 – 2016

President

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

Vice President

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

Treasurer

Glenn Cameron
Phone: 330-737-1472 E-mail: glenn@cameronclan.org

Secretary

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

Assistant Secretary/Treasurer

Phone: E-mail:

Observatory Director

Ron Kalinoski
Phone: 330-837-5848

ACA Webmaster

Dave Jessie
E-mail: DJessie@neo.rr.com

Publications Secretary - Editor, Night Sky Newsletter

Jason Shinn
Phone: 330-685-5382 E-mail: jgshinn2014@gmail.com

Trustee

Fred Huffman
E-mail: trusstube2@gmail.com

Trustee

Trustee

Statutory Agent

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

OTAA Representative

Lou Poda

January Treasurer's Report

By Glenn Cameron

1/1/2016 Through 1/31/2016

Checking Beginning Balance	\$2,393.76
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Income

Total Income	\$0.00
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Expenses

Web Hosting	-57.81
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Speakers Dinner	-45.43
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Total Expenses	-103.24
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Income Less Expenses	-\$103.24
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Checking Ending Balance	\$2,290.52
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Savings Beginning Balance	\$2,580.65
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Earned Interest	0.04
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Savings Ending Balance	\$2,580.69
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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	2,580.69
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Checking	2,290.52
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Grand Total	\$4,921.21
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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.

Advertise in the Swap n Shop!

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

jgshinn2014@gmail.com

PRESIDENTS COLUMN (cont)

That same year I joined ACA and have become fond of the friendships made and the abundant knowledge gained at every meeting and star party. I have taught at the high school level for 30 years and at the collegiate level for 5, but I remain in awe of the intelligence and keen minds of those I keep company with through ACA. I am amazed at how much I learn with each opportunity, and our members and speakers are so willing to share their wealth of knowledge. In appreciation and with gratitude I hope to serve the club well as your interim president. Please know I will ask for your assistance as we together put our organization on a steady course to serve our membership and the community with our passion for astronomy.

Looking forward to the days ahead!
Cathy

*Article By Cathy Loboda,
ACA President.*

FEBRUARY 26, 2016 - General Membership Meeting



Speaker: Phil Creed

Presentation: Ocularology - Historical and Modern Eyepiece Designs

"The eyepiece is half the telescope, so use a good one". Those are the words of eyepiece designer extraordinaire Al Nagler, and the eyepiece choices available to today's amateur astronomer are bewildering compared to just a few generations ago. "Ocularology" will cover the basics of eyepiece design, what to look for when selecting an eyepiece, and the progression of eyepiece designs from the beginning of the telescope all the way through modern times. Supplemental handouts detailing popular eyepiece lines will be distributed after the presentation to help in one's next - or first - eyepiece selection.

Phil Creed **About our speaker:** Phil Creed is a lifelong amateur astronomer from Stark County, and a 1997 graduate of The University of Akron. He has observed over fifty comets but his main level of expertise is in visual deep-sky observing, particularly in remote locations further south in Ohio and West Virginia. Phil has had articles on sky transparency and weather's effect on astronomy published in "Sky & Telescope" magazine.

Special note: Bring your favorite eyepiece and/or odd eyepiece to the meeting for our Show 'n Tell portion of the presentation followed by a Swap 'n Shop event. This is going to be lots of fun, so bring items to sell or cash to buy or both!

February Astronomical Events

Day Hour(UT)
1 03 LAST QUARTER
1 09 Mars 3° S. of Moon
3 19 Saturn 3° S. of Moon
6 08 Venus 4° S. of Moon
6 17 Mercury 4° S. of Moon
7 01 Mercury greatest elong. W. (26°)
8 15 NEW MOON 10 00 Neptune 2° S. of Moon
11 03 Moon at perigee 12 14 Uranus 1° 7 N. of Moon
15 08 FIRST QUARTER 16 08 Aldebaran 0° 3 S. of Moon Occn.
22 18 FULL MOON 24 04 Jupiter 1° 7 N. of Moon
27 03 Moon at apogee
28 16 Neptune in conjunction with Sun
29 18 Mars 4° S. of Moon

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

March Astronomical Events

Day Hour(UT)
1 23 LAST QUARTER
2 07 Saturn 4° S. of Moon
3 22 Ceres in conjunction with Sun
6 16 Juno stationary
7 11 Venus 4° S. of Moon
8 11 Jupiter at opposition
9 02 NEW MOON Eclipse
10 07 Moon at perigee
11 01 Uranus 1° 9 N. of Moon
14 14 Aldebaran 0° 3 S. of Moon Occn.
15 17 FIRST QUARTER
20 05 Equinox 20 14 Venus 0° 5 S. of Neptune
22 04 Jupiter 2° N. of Moon
23 12 FULL MOON Penumbral Eclipse
23 20 Mercury in superior conjunction
25 13 Saturn stationary
25 14 Moon at apogee
28 19 Mars 4° S. of Moon
29 15 Saturn 3° S. of Moon
31 15 LAST QUARTER

Akron Physics Club Meeting

Our next meeting will be Monday, February 22, 2016

At The Tangier, 532 West Market

6:00pm Socializing --- 6:30pm Dinner --- Program about 7:30

The charge for each dinner will be \$20 cash

Dinner reservations must be made by THURSDAY February 18th

Please email the names of people in your party to:

akron.physics.club@gmail.com

Please use this email for reservations, for updates on email addresses,
or to discontinue receiving these announcements.

VISITORS ARE WELCOME --- COLLEGE STUDENTS ARE FREE

[College students having dinner: Please identify yourself as a student.]

Anyone is welcome to attend the free presentation starting at about 7:30 pm.

But if you would like to have dinner, you will need a reservation.

The Speaker will be:

**Dr. Oleg Lavrentovich of the Kent State University
Liquid Crystal Institute**

He will be speaking on:

**Mixtures of Colloids and Liquid Crystals:
Simple Physics of a Complex System**

Abstract: Liquid crystals and colloids represent two important classes of the so-called soft matter, a subject of physics most closely related to the mysteries of life. Liquid crystals are fluids formed by elongated organic molecules that tend to align parallel to each other. They have revolutionized the way we present information nowadays. Colloids have fascinated scientists for centuries and brought about many important concepts of modern physics, such as Brownian motion and its description by Einstein, Helmholtz-Smoluchowski theory of electrokinetics, Onsager model of orientational order, etc. The fluid in which the colloidal particles are dispersed is typically isotropic, such as water. The physics becomes even more interesting when the isotropic fluid is replaced with an anisotropic fluid, a liquid crystal. This presentation focuses on a number of new effects, including particle levitation, anomalous Brownian motion, new types of electrophoresis and electro-osmosis, and “topological turbulence” due to active microswimmers, such as bacteria. The new phenomena are rooted in anisotropy of the liquid crystal properties, such as orientational elasticity, electric conductivity and dielectric permittivity.

The Speaker: Dr. Lavrentovich Received his PhD in 1984 and his Doctor of Sciences in 1990. He has been at the Kent State Liquid Crystal Institute since 1992, is a fellow of the APS and SPIE, and has co-authored with Maurice Kleman a textbook entitled “Soft Matter Physics: An Introduction” in 2003.

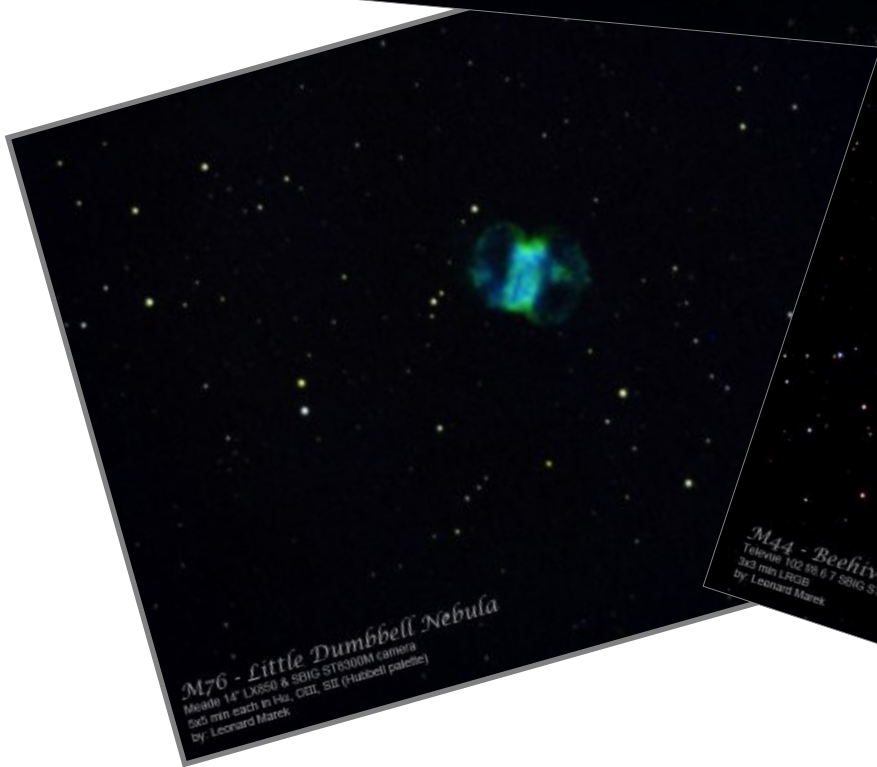
Join us for an exciting evening focusing on latest developments in liquid crystals, from the local Kent Liquid Crystal Institute, known throughout the world for their pioneering work

February Image Fest 2016

Lenny's been at it again!



Horsehead and Flame Nebula
Televue 102 FS 6 & SBIG ST8300M camera
644 minutes in LRGB
by Leonard Marek



M76 - Little Dumbbell Nebula
Meade 14" LX850 & SBIG ST8300M camera
2x5 min each in Ha, OIII, SII (Hubble palette)
by Leonard Marek

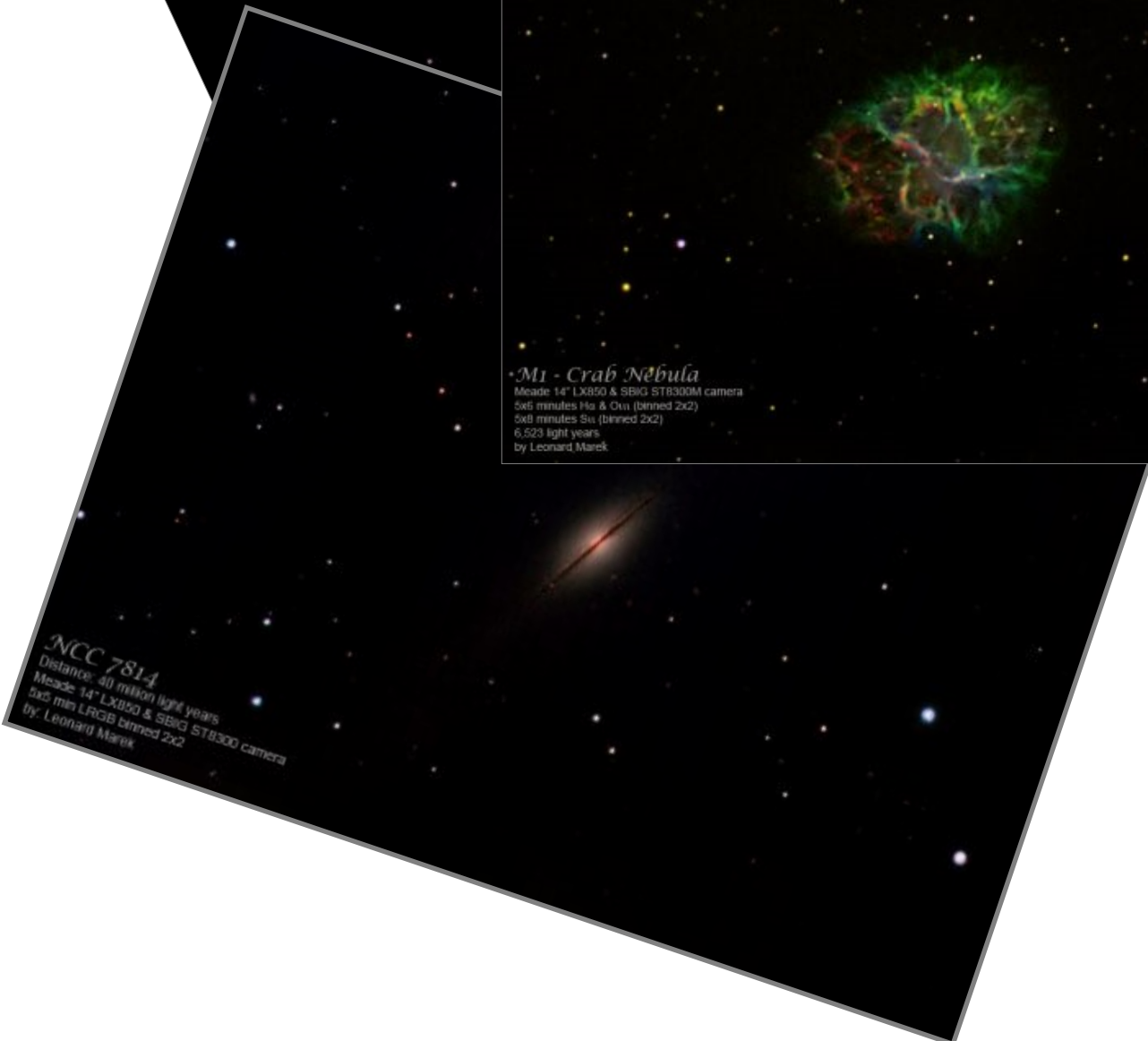


M44 - Beehive Cluster
Televue 102 FS 6 & SBIG ST8300M camera
3x2 min LRGB
by Leonard Marek

February Image Fest 2016



M1 - Crab Nebula
Meade 14" LX850 & SBIG ST0300M camera
5x5 minutes Ha & Ori (binned 2x2)
5x5 minutes Sii (binned 2x2)
6,523 light years
by Leonard Marek



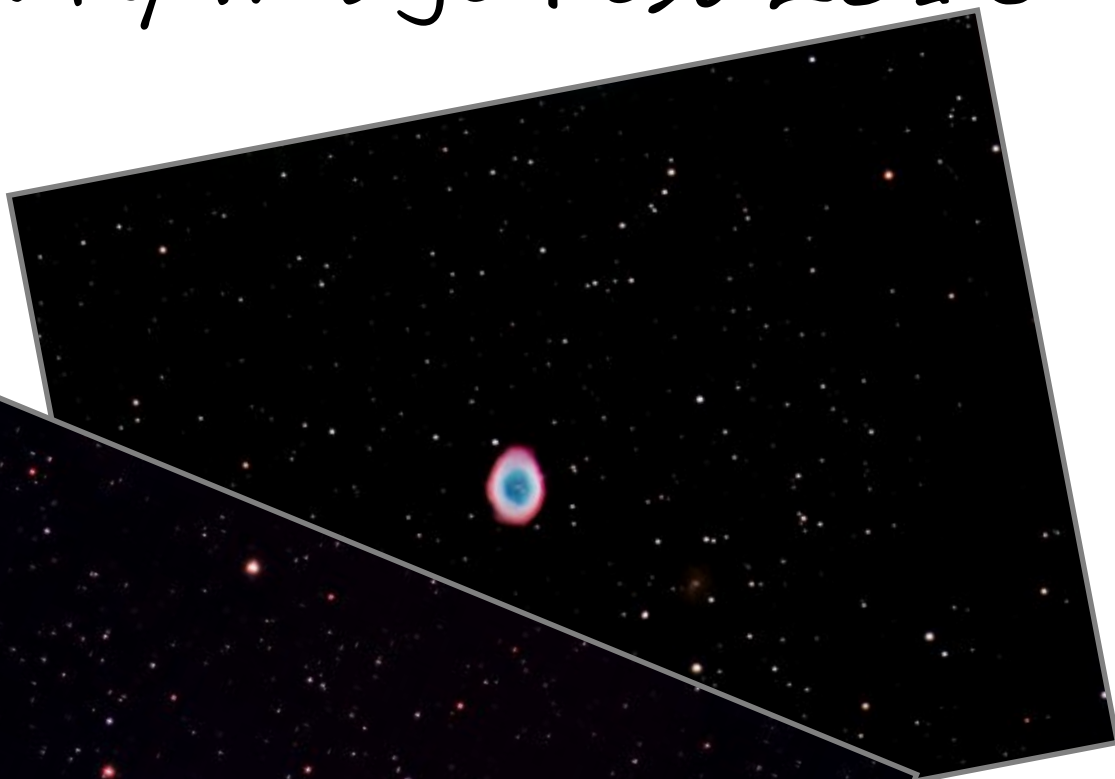
NGC 7814
Distance: 40 million light years
Meade 14" LX850 & SBIG ST0300 camera
5x5 min LRGB binned 2x2
by Leonard Marek

February Image Fest 2016



*M42, M43,
NGC 1973, NGC 1975 and NGC 1977
(Running Man Nebula)
Televue 102 & SBIG ST8300M camera
5x5 minutes LRGB
by Leonard Marc*

February Image Fest 2016



Photos by ACA Member Len Marek
14" Meade LX850 f/8
Televue 102 f/8.6
Televue Genesis sdf f/5.4
SBIG ST8300M camera and Filter wheel
Astro-Physics AP1200 mount

NGC 7640
Meade 14" LX850 & SBIG ST8300M camera
7x5 min Luminance 5x5 RGB
by Leonard Marek

The Night Sky

Newsletter of the Astronomy Club of Akron

c/o Jason Shinn, Editor
1026C Rocky Brook Dr.
Akron, OH 44313

The Astronomy Club of Akron
c/o Glenn Cameron
169 Hillside Dr.
Wadsworth, OH 44281

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,